



Government College of Technology, Coimbatore – 641013
(An Autonomous Institution affiliated to Anna University, Chennai)
SELF- STUDY REPORT

CRITERION 3
Research, Innovations and Extension

Key Indicator 3.7: Collaboration

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

DECLARATION

This is to certify that the supporting documents uploaded in Institution website and the respective links are true to the best of my knowledge and belief. All documents and links are verified and authenticated.

Head of the Institution

(Seal and sign of the Principal)

Government College of Technology, Coimbatore-13

List of MoUs and Outcomes in the Year 2019

S.No	Name of the collaborating agency	Year of signing	Duration	Activities	Page no.
1	M/s Green Microelectronics India(p) Ltd.	2019	4 Years	Student Internship - 10	3
2	Lema Labs Technologies Pvt. Ltd.	2019	Lifelong	Workshop on "Industrial Automation using IoT	5
3	Lema Labs Technologies Pvt. Ltd	2019	Lifelong		7
4	M/s. Capital Engineering Consultancy, Sharjah	2019	5 Years		9

GREEN



MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding is entered on 15th August, 2019 at

Government College of Technology, Coimbatore-641013

between

GREEN MICROELECTRONICS INDIA (P) LTD

and

GOVERNMENT COLLEGE OF TECHNOLOGY, COIMBATORE

NATIONAL INSTITUTE OF TECHNOLOGY, ARUNACHAL PRADESH

GOVERNMENT ENGINEERING COLLEGE, JAGDALPUR

The scope of this MoU is to provide a framework of reference to build a strong relationship between **GREEN MICRO** and **GCT, NIT** and **GEC** together in the field of automation.

The primary goals are,

- To upskill students in the field of automation technologies.
- To work in a collaborative manner to Explore, Innovate and Foster technical solution in automation domain.
- To create an environment that promotes and stimulates the spirit of entrepreneurship among the students of the college through mentorship and incubation programs.

For and on behalf of
Dept. of Electrical and Electronics Engg. and
Dept. of Electronics and Instrumentation Engg.
Government College of Technology
Coimbatore

Name : Dr.P.Thamarai
Designation : Principal

For and on behalf of
Green Microelectronics India (p) ltd
Coimbatore

Name : C.Doraiswamy
Designation : Managing Director

For and on behalf of
National Institute of Technology,
Arunachal Pradesh [NIT]

Name : M.R.Khan
Designation : Principal

For and on behalf of
Government Engineering College,
Jagdalpur [GEC]

Name : Dr.Pinakeswar Mahanta
Designation : Director





MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding is entered on 25th August, 2019 at Government College of Technology, Coimbatore-641013

between

LEMA LABS TECHNOLOGIES PVT. LTD, CHENNAI

and

GOVERNMENT COLLEGE OF TECHNOLOGY, COIMBATORE

The scope of this MoU is to provide a framework of reference to build a strong relationship between **LEMA LABS TECHNOLOGIES** and **GCT** in emerging technologies. The primary goals are,

- To enable the knowledge sharing process on the recent technologies, which in turn bridges the gap between Academia and the Industry.
- To offer Training programs, Workshops and Faculty Development Programs for the students and faculty members in emerging technologies such as Robotics, Embedded Systems, Internet of Things and Machine Learning decided on mutual terms.
- To Provide project guidance and mentoring of students who have attended the training programs of Lema Labs.
- To construct a long term development programme on topics of mutual interest

For and on behalf of
Dept. of Electrical and Electronics Engg. and
Dept. of Electronics and Instrumentation Engg.
Government College of Technology
Coimbatore

Name : Dr.P.Thamarai
Designation : Principal

For and on behalf of
Lema Labs Technologies Pvt. Ltd
Incubated at IIT Madras Incubation Cell
Chennai

Name : A.Parthiban
Designation : Team Lead-Business
Development

GOVERNMENT COLLEGE OF TECHNOLOGY, COIMBATORE
DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

DATE: 31.07.2019,01.08.2019,02.08.2019

EVENT NAME: INDUSTRIAL AUTOMATION USING IOT

ORGANISOR: LEMA LABS

VENUE: EIE COMPUTER LAB





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Chennai

Name : A.Parthiban
Designation : Team Lead-Business
Development

Kaizen IoT Workshop

Participation Certificate

THAMIZH MANJU M

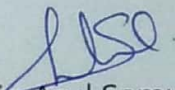
pursuing B.E/B.Tech Electrical and Electronics Engineering at Government College of Technology, Coimbatore has participated in the Kaizen IoT Workshop conducted at Government College of Technology, Coimbatore on 31st August and 1st September 2019.

She has learnt/built the following during the workshop

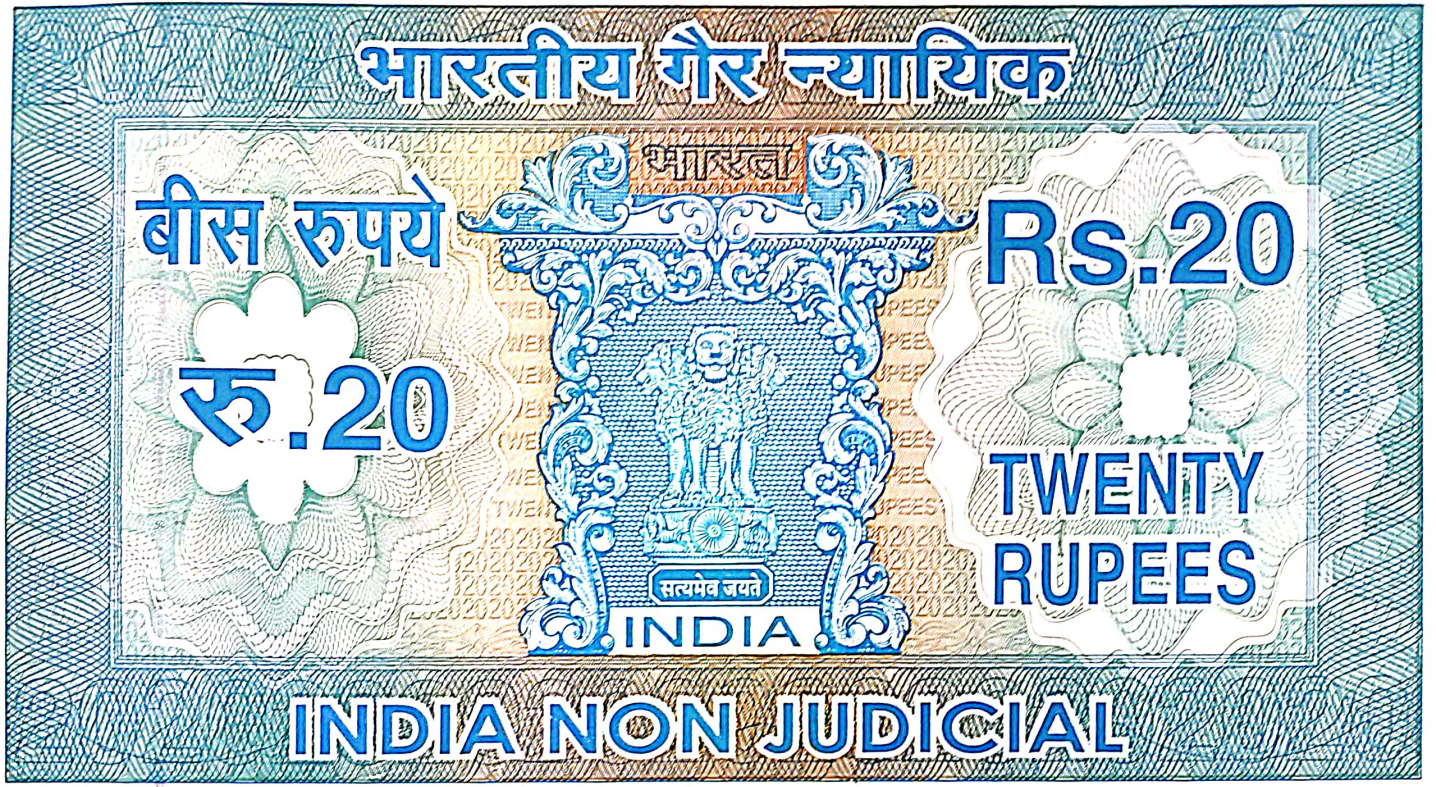
- ❖ Basic HTML Programming
- ❖ Basic Arduino Programming
- ❖ Creating Server and Clients
- ❖ Creating Android Apps using MIT App Inventor
- ❖ Controlling Devices over the Internet using MQTT

All the above was done on the NodeMcu-ESP8266.




Jeswin Arul Samuel
Robotics Engineer, Lema Labs





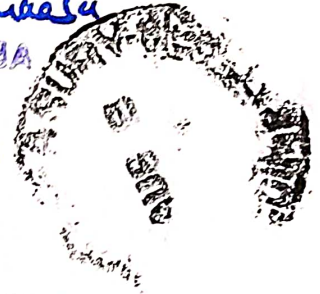
தமிழ்நாடு தமில்நாடு TAMIL NADU

Rs.20

68AB 781507

13-8-2019 The Principal Government
College of Technology
Coimbatore

2. Mary Evangelin Reda
I. MARY EVANGELIN REDA
STAMP VENDOR
126-A, Ramalinga Colony,
M.T.P. Road, Coimbatore - 43
L No : 7333/B1/97F3



This Memorandum of Understanding (MoU) is executed on August 13, 2019

Between

Capital Engineering Consultancy, which is a Engineering Consultancy with its Registered Office at Sharjah UAE acting through its Consultancy in UAE, Egypt, Iraq & India (hereinafter referred to as CEC), which is one of the Leading Consultancy in UAE,

And

Government College of Technology is a reputed institution which offers many Engineering courses in various disciplines (hereinafter referred to as GCT Coimbatore) along with its mentee institution National Institute of Technology, Arunachal pradesh (hereinafter referred to as NIT Arunachal pradesh)

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PREAMBLE

WHEREAS, CEC is engaged in research, design and development and consultancy in the field of Engineering and Technology, Material Science and Architecture and Planning.

WHEREAS, GCT Coimbatore & NIT Arunachal Pradesh, both are reputed institutions which offer many Engineering courses in various disciplines and is also contributing to the rapidly growing scientific and technological knowledge and professional excellence in technology by undertaking various research and consultancy activities. As GCT & NIT are funded with TEQIP Phase III which help in improvement in quality of Engineering Education. As GCT is the Mentor Institute for NIT, Arunachal Pradesh, GCT supports NIT, Arunachal Pradesh to strengthen and improve their policy, academic and management practices.

WHEREAS, both CEC and GCT Coimbatore along with NIT Arunachal Pradesh, now,

Recognizing the importance of research and development in the areas of Building Science, Engineering Sciences, Engineering Geology and Material Science.

Appreciating the need for creation of large reservoir of highly qualified manpower in all fields related to Building Science and Technology including Structural Engineering, Geotechnical Engineering, Material Science and Architecture & Planning and other areas of Engineering.

Desiring to enhance their efforts by joining their expertise and resources.

INTEND to form a Synergistic Framework for promoting development and growth of excellent quality manpower in the fields of Engineering, Technology and Science with a focus on Civil Engineering, Building Science, Engineering Geology and other branches of Engineering, Technology and Science. NOW, THEREFORE in consideration of the mutual promises made herein and of good and valuable consideration, the receipt and sufficiency of which both CEC and GCT Coimbatore / NIT Arunachal Pradesh hereby acknowledge, CEC and GCT Coimbatore / NIT Arunachal Pradesh hereby agree as under:

ARTICLE —I: SCOPE OF THE MoU

This MoU details the modalities and general conditions regarding collaboration between CEC and GCT Coimbatore / NIT Arunachal Pradesh for enhancing, within the country, the availability of highly qualified manpower in the area of Civil Engineering, Building Science and Technology, Engineering Geology and other areas of Engineering, Technology and Sciences without any prejudice to prevailing rules and regulations in CEC and GCT Coimbatore/NIT Arunachal Pradesh and without any disregard to any mechanism evolved and approved by the competent authorities under Govt. of India/State Government of Tamilnadu/State Government of Arunachal Pradesh in so far as such mechanism applies to CEC and/or GCT Coimbatore / NIT Arunachal Pradesh. The areas of cooperation can be extended through mutual consent.

ARTICLE - II: SCOPE OF ACADEMIC INTERACTION

CEC and GCT Coimbatore / NIT Arunachal Pradesh shall encourage interaction between the CEC Engineers and GCT Coimbatore / NIT Arunachal Pradesh faculty members and students through the following arrangements.

- a) Guidance of student's projects/thesis at UG and PG level in CEC in the area of building science and technology of national interest on mutually agreeable terms as listed below:
 - i) A Consultant / R&D Engineer at CEC may be appointed a Research Co-Guide for a student Registered for M.E Degree / Ph.D. degree at GCT Coimbatore/ NIT Arunachal Pradesh.
 - ii) The students will carry out their M.E Degree project / PhD research work/ or project at CEC under the guidance of Engineers of CEC.
 - iii) There will be no restrictions on the contents of the thesis and on publications of results of the thesis, subject to the condition that Intellectual Property Rights can be secured for any part of the work which will be decided with mutual consent.

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iv) CEC will be free to independently carry out follow-up research on the thesis work conducted under this scheme.

v) If the outcome of a project related to product development, process, technology and design etc. which involves matter of secrecy and concern with security of the state and country the same will not be allowed for publication/printing in any form such as Electronically/verbal etc. If the outcome of a project results into an intellectual property, for which rights can be secured, it will be decided on case to case basis. Similarly, sharing of expenditure in securing such rights and income accrued through royalty etc by the parties under the law will be decided on case to case basis after mutual consultation.

vi) Joint guidance of student projects / theses in Structural Engineering, Seismic Micro zonation, Geotechnical Engineering, Environment Engineering, Building Science & Technology, Engineering Geosciences and other areas of mutual interest at GCT Coimbatore by CEC Scientists and faculty of GCT Coimbatore /NIT Arunachal Pradesh as per rules and regulations of both institutes.

b) Organization of joint Conferences and Seminar

c) Practical training of GCT Coimbatore / NIT Arunachal Pradesh for UG and PG students of Department of Civil Engineering at CEC and vice-versa.

d) Participation of CEC Experts in GCT Coimbatore / NIT Arunachal Pradesh programmes and events as well as participation of Faculty and Students of GCT Coimbatore / NIT Arunachal Pradesh to participate in research programmes and events of CEC, based on mutual agreement and approvals of both organizations as appropriate.

e) Initiation of collaborative research and submission of joint project proposals by CEC and GCT Coimbatore / NIT Arunachal Pradesh to external funding.

f) Capital shall be allowed permission to conduct campus interviews and recruit selected students of GCT Coimbatore / NIT Arunachal Pradesh for employment.

ARTICLE — III: SHARING OF FACILITIES

a) CEC and GCT Coimbatore / NIT Arunachal Pradesh shall make provisions to share their respective R&D facilities in order to promote academic and research interaction in the areas of cooperation subject to approvals and availability.

b) CEC and GCT Coimbatore / NIT Arunachal Pradesh shall permit the exchange of software and other materials and components developed in-house in the areas of cooperation, if permissible, within the rules governing the two institutions.

c) CEC and GCT Coimbatore / NIT Arunachal Pradesh shall provide access to the library and extend inter-library loan facilities to scientists of CEC, members of faculty and students of GCT Coimbatore as per the prevailing rules and norms in the respective institutes.

d) CEC and GCT Coimbatore / NIT Arunachal Pradesh Shall permit access to library collection through E-library in which the users enjoy the euphoria of being in distance and still access library collection with the use of internet network.

e) GCT / NIT students/Faculty shall be responsible for the Visa, travel and accommodation costs for availing the CEC overseas facilities

ARTICLE —IV: EFFECTIVE DATE AND DURATION OF MoU

a) This MoU shall be effective from the date of its approval by competent authorities at both ends.

b) The duration of the MoU shall be for a period of 5 years from the effective date and may be extended further on mutual agreement.

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- c) During its tenancy the MoU may be extended or terminated by a prior notice of not less than six months by either party. However, termination of the MoU will not in any manner affect the interests of the students who have been admitted to pursue a programme under the MoU, or progress of any ongoing mutual activity that has been initiated formally with approval of both sides.
- d) Any clause or article of the MoU may be modified or amended by mutual agreement of CEC and GCT Coimbatore / NIT Arunachal Pradesh

ARTICLE — V: IPR

Rights regarding publications, patents, royalty, ownership of software / design / product developed etc. under the scope of this MoU shall be decided by the three parties by mutual consent.

ARTICLE — VI: ARBITRATION

Any dispute arising out of this MoU will be resolved amicably by mutual consultation. If such resolution is not possible then the unresolved dispute will be referred jointly to Director, CEC and Principal, GCT Coimbatore/ Director, NIT Arunachal Pradesh. The outcome of the joint decisions of the Director/Principal shall be binding upon all the parties.

ARTICLE — VII: CONFIDENTIALITY

During the tenure of the MoU information to be shared must be indicated as “confidential” or “non-confidential”. Both CEC and GCT Coimbatore / NIT Arunachal Pradesh will maintain confidentiality and prevent disclosure of all the information designated as “confidential” except by mutual agreement.

IN WITNESS WHEREOF PARTIES HERE TO HAVE ENTERED INTO THIS AGREEMENT EFFECTIVE AS ON THE DATE AND YEAR FIRST WRITTEN ABOVE.

_____ P. Thamarai 13/8/19

Dr.P.Thamarai
Principal
Government College of Technology
Coimbatore,
India



_____ R. Balaskandan 13/08/2019

Mr. Balaskandan Raghunathan
CEO
Capital Engineering Consultancy.
Sharjah
United Arab Emirates

Date: 13/8/19

Date: 13.08.2019

Witness 1: _____ 13/8/19
Dr. R. Thienmozhi
Head of Department (Structures)
GCT, Coimbatore - 13.

Witness 2: _____ 13/8/19
Dr. Mainak Mallik
Associate Professor
NIT, Arunachal Pradesh

Witness 1: _____ 13/08/2019
Dr. Ebenezer Samuel
Er. B. Kamaraj
Structural Consultant
Coimbatore

