



தமிழ்நாடு தமில்நாடு TAMILNADU  
 27985 CAISER  
 23-11-18

BH 583182  
 ANOHARA  
 STAMP VENDOR  
 20, Lakshmi Talkies Road,  
 Chennai-600030, Tamil Nadu  
 License No. C3/2551/18

**MEMORANDUM OF UNDERSTANDING**

This Memorandum of Understanding (MOU) is made and entered on Nov 1, 2018, by M/s. Coovum Advanced Institute for Science and Engineering Research., with a place of business at Flat 4B, Block 1, VGN La Parisaane, West Mogappair, Nolambur, Chennai 600037, Tamil Nadu, INDIA, herein referred to as "CAISER" the First Party; And, "SA Engineering College" with a place of business at Poonamalle, Avadi Road, Chennai 600 077, Tamil Nadu, INDIA, herein referred to as the 'SA' the Second Party.



**S.A. ENGINEERING COLLEGE**

Sponsored by S. Suresh Naidu Educational and Charitable Trust  
 Accredited by NBA, New Delhi with 'A' Grade & ISO 9001:2015 Certified Institution  
 Approved by A.I.C.T.E. and Affiliated to Anna University  
 Poonamalle - Avadi Main Road, Thiruvetkural, Chennai - 600 077  
 Phone: 26683 1899, 26683 1894, Fax: 26683 1899



P.VENKATESH RAJA, B.E., M.S.,  
 DIRECTOR

Date: 14.12.2018

Lr. No.SAEC/AY/2018-19/VAC/15-63

To  
 M/S. Coovum Advanced Institute for Science & Engineering Research  
 Mogappair West  
 Chennai.

Sir,  
 Sub: S.A. Engineering College, Chennai-77. Value added course training Programme - For ECE, EEE Students -Reg.  
 Ref: Your Proposal for Value added course training programme for ECE, EEE students.

With reference to your Proposal cited and in continuation of personal discussions had with you, we wish to conduct Value added course training programme for the following departments during the academic year 2018-19 Even Semester.

S. no	Dept	Year	Category	Amount per student	No. of Students	No. of days	Total Amount
1	ECE	II A,B,C	Raspberry Pi with Python Programming	500	170	5	85,000
2	EEE	II A,B	Hands on Training in Arduino	500	84	5	42,000
<b>Total (Inclusive of taxes)</b>							<b>1,27,000</b>

(Rupees One Lakh Twenty Seven Thousand Only)

Thanking you,

Yours faithfully,



P.VENKATESH RAJA  
 DIRECTOR



**COOVUM ADVANCED INSTITUTE FOR SCIENCE  
AND ENGINEERING RESEARCH - CAISER**

CAISER, a subsidiary of Coovum Smart Systems and Services Private Limited, is providing technology oriented Hands – on training in IoT Domain to nurture Automation and Analytic skills for students from various Engineering College and working professionals. The prime objective of this institute is to equip students with strong theoretical foundation and hands-on skills on IoT that are relevant to both the current and evolving industries. While the students get to work on industry projects that expose them to industry-centric processes, a research element is also added to have an inclusive development that will nurture their academic skills as well.

**Focus Areas:**

- Our training comprises the following areas:
- Sensors
  - Embedded Systems
  - Actuators
  - Embedded Programming

An application will be integrated with the tools and platforms to understand the technology components and its nitty-gritty's in the real-time implementation.

**Pre-Requisites:**

- Wi-Fi Enabled Router
- Minimum 2 Computer Systems / Team
  - o I 3 Processor upwards
  - o Minimum 4 GB RAM
  - o 500 GB Hard disk
- 1 College staff for internal coordination

**Tentative Time Schedule :**

The total Students will be divided into teams of 4/5 and a project will be allocated to each team so that they perform by doing it.

Sessions	Morning	Pre Lunch	Post Lunch
Day 1	Introduction to IoT, Embedded Systems & Automation (Sensors, Actuators etc.)	Conceptual Understanding & Programming in Arduino (IDE)	Team Splitting & Project Allocation Project Proposal / Problem Statement Identification with Solutions
Day 2	Both Theoretical & Hands – on, Building own solutions for corresponding problem statements		
Day 3	Project Closure & Reviews	Importance of Arduino boards & Feedback	Presentations & Certificates

*S. Qo*  
*31/12/18*

Head Office: No. 23, 6th Main Road, Jeswanth Nagar, Phase-II, West Mogappair, Chennai 600 032  
Website: www.coovum.com | www.caiser.in

**S.A. ENGINEERING COLLEGE  
DEPARTMENT OF EEE  
CAISER VAC CERTIFICATE ISSUE**

S.No	Roll No.	Name of the Student	Sign
1	1713041	ARJUN PRAKASH P	[Signature]
2	1713042	DANIEL RAJ MORAIS X	[Signature]
3	1713043	DURAI RAJ V	[Signature]
4	1713044	ERINEZAR D K	[Signature]
5	1713045	GEE THA D	[Signature]
6	1713046	GOKUL M	[Signature]
7	1713047	GOKUL RAJ M	[Signature]
8	1713048	HUIDSON ROISHVA J	[Signature]
9	1713050	JOHESH JOSE	[Signature]
10	1713051	KAMESH S	[Signature]
11	1713052	KARAN S	[Signature]
12	1713053	KARTHIK V	[Signature]
13	1713054	KATHIR A	[Signature]
14	1713055	KUBENDRAN V P	[Signature]
15	1713056	LOGESH P	[Signature]
16	1713057	MAGHSHAVAN P	[Signature]
17	1713058	MANIKANDAN S	[Signature]
18	1713059	MOHAN KUMAR R	[Signature]
19	1713060	MUKESH KANNAN A	[Signature]
20	1713061	MUTHAAN N	[Signature]
21	1713062	MUTHU RAJA S	[Signature]
22	1713063	NITHISH KUMAR P	[Signature]
23	1713064	PADMASRI M B	[Signature]
24	1713065	PAVITHRA B	[Signature]
25	1713066	POOLAIYA S	[Signature]
26	1713068	PRAVEEN R	[Signature]
27	1713069	PRAVEEN KUMAR A	[Signature]
28	1713070	RETHICK ROSHAN R	[Signature]
29	1713071	SANGEETHA I	[Signature]
31	1713072	SARATHI KUMAR T	[Signature]
32	1713074	SATHISH L	[Signature]
33	1713073	SATHISH KUMAR M	[Signature]
34	1713075	SELENI R	[Signature]
35	1713076	SHANMUGA ARAVINDH M	[Signature]
36	1713077	SIVARAMAN A S	[Signature]
37	1713078	SUBHALAKSHMI R	[Signature]
38	1713079	SURESHKUMAR B	[Signature]
39	1713080	TAMIL ARASAN E	[Signature]
40	1713081	TAMILARASI V	[Signature]
41	1713082	VIGNESH G A	[Signature]
42		Karthikeyan A	[Signature]

# CAISER

Center for Robotics, Artificial Intelligence & IoT

Head Office: No. 23, 6th Main Road, Jeevaiah Nagar, Phase-II, West Marjapur, Chennai 600037  
Phone: 9444418181. Website: www.caiser.in www.coovum.com

## Certificate of Participation

This is to certify that

MUKESH KANNAN . A

has successfully participated in the IoT Workshop Program  
conducted between 9.00 AM and 4.00 PM from 02/01/19 to 05/01/19

This activity was awarded by:



Dr. Swarna Ravindra Babu  
Managing Director