	6.3.3 Average number of professional development / administrative  Title of the professional development/ administrative			ENTERON DE LES	(40 2021 2022 (0)	
Dates (from-to) DD-MM-YYYY)	training programs organised for teaching staff (Professional development/ administrative training programs)	Resource person name, affiliation	outcome of the program	No. of participants	Color photo of the event giotag preferable	Department
11.2.2022	Research and Paper writing	Dr. C.N .Marimuthu Dean /R&D, Dr.S. Kavitha HoD/ ECE	Faculties have gained knowledge on research paper writing	15	Simulation Lab. Department of ECE, Total Nasia, India National States of Sta	ECE
16.11.2021		Mr. Anupriyan K Corporate Trainer & Technical Leader, Livewire Erode.	Faculties have gained knowledge on basics of machine learning and Fundamentals of R programming	15		ECE
25.4.2022	Hands on training in servicing of microcontroller trainer kits	Mr.M.Marudhapandi Head Training Department, VI Microsystems, Coimbatore	All the non teaching staff gained knowledge on basic computer proficiency	7		ECE

July 121

S. Reville



PRINCIPAL
Nandha Engineering College
(Autonomous)
Erode - 638 052.



#### NANDHA ENGINEERING COLLEGE

(Autonomous) ERODE - 638 052.



### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING IN ASSOCIATION WITH

### INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS

Thiru S. NANDHAKUMAR PRADEEP

Ph: 04294 - 225585, 223711 e-mail: info@nandhaengg.org

Sri Nandha Educational Trust

Website: http://nandhaengg.org

Thiru V. SHANMUGAN

Chairman

Secretary

Sri Nandha Educational Trust

Thiru S. THIRUMOORTHI

Secretary

Nandha Educational Institutions

**PATRON** 

Dr.N.RENGARAJAN PRINCIPAL

Dr.S.ARUMUGAM

CEO

CONVENORS

Dr.C.N.Marimuthu

DEAN - R&D

Dr.S.Kavitha

DEAN - ECE

#### **CO-ORDINATOR**

Ms.T.G.DHAARANI

Associate Professor/ECE

Ms.P.KOKILA

Assistant Professor/ECE

### INVITATION

Fax No: 04294 - 224787

The Management, Principal, Faculty members and Students of

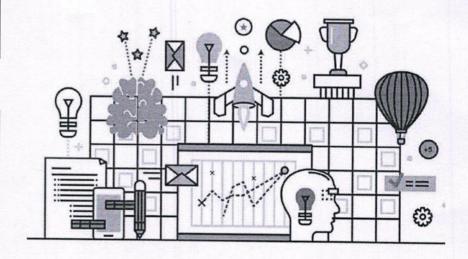
Electronics and Communication Engineering department

Cordially invite you for the

#### Seminar

on

Research and Paper Writing



### Resource Person(s)

Dr. C.N Marimuthu, Dean R &D Dr. S.Kavitha, Dean & HoD/ ECE

Date: 11.02.2022

Time: 10.00 am-3.00 pm

Venue

Conference Hall



# NANDHA ENGINEERING COLLEGE,ERODE-52 (AUTONOMOUS)

### Department of ECE

### Academic Year 2021-2022

### RESEARCH AND PAPER WRITING

Date: 11.2.2022

S.NO	NAME OF THE TEACHING	F.N	A.N
1	Dr.R.Murugasami	W	Au .
2	Dr.D. Arulanantham	Ragy	DARI
3	Ms.T.G.Dhaarani		9
4	Mr.T.Jayachandran	A	que de la companya della companya de
5	Ms.P.Kokila	8	8
6	Mr.G.Rathanasabapathy	Cathod . D.	9 katri
7	Ms.S.Brindha	Spire	Sure
8	Ms.V.Logeswari	N. 8	1.8
9	Mr.E.K.Arul Karthick	F	3
10	Mr.G. Prabhakaran	a. Proto.	a. Nob.
11	Ms.R.Monica	More	More
12	Mr.M.Srinevasan	MED	all many
13	Ms.V.Parameshwari	V. Bu	V. Par
14	Mr.G. Praveen santhoshkumar	GIP	G. A.
15	Ms.P S. Niji	this	The

HoD/ ECE



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Internal Quality Assurance Cell (IQAC)

# **CERTIFICATE OF PARTICIPATION**

This is to Certify that Ms/Mr

G.RATHANASABAPATHY ASSISTANT PROFESSOR

has participated in one day

Seminar on "RESEARCH AND PAPER WRITING" Organised by Department of Electronics and Communication

Engineering on 11th Febryary 2022

S. Assolie Convener

Convener
Dr. S. Kavitha
HOD/ECE

Principal



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Internal Quality Assurance Cell (IQAC)

## **CERTIFICATE OF PARTICIPATION**

This is to Certify that Ms/Mr

R.MURUGASAMI ASSOCIATE PROFESSOR

has participated in one day

Seminar on "RESEARCH AND PAPER WRITING" Organised by Department of Electronics and Communication

Engineering on 11th Febryary 2022

S. Assolie
Convener

Convener
Dr. S. Kavitha
HOD/ECE

Principal



Affiliated to Anna University, Chennai. Approved by AICTE Perundurai, Erode - 638 052.

**Internal Quality Assurance Cell (IQAC)** 

### CERTIFICATE OF PARTICIPATION

This is to Certify that Ms/Mr

T.G.DHAARANI

ASSOCIATE PROFESSOR

has participated in one day

Seminar on "RESEARCH AND PAPER WRITING" Organised by Department of Electronics and Communication

Engineering on 11th Febryary 2022

S. Rogle Convener

Convener
Dr. S. Kavitha
HOD/ECE

Principal



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Internal Quality Assurance Cell (IQAC)

# **CERTIFICATE OF PARTICIPATION**

This is to Certify that Ms/Mr

P.NIJI

ASSISTANT PROFESSOR
has participated in one day

Seminar on "RESEARCH AND PAPER WRITING" Organised by Department of Electronics and Communication

Engineering on 11th Febryary 2022

S. Roglie

Convener
Dr. S. Kavitha
HOD/ECE

Principal



### NANDHA ENGINEERING COLLEGE

(Autonomous) ERODE - 638 052.



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING IN ASSOCIATION WITH

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Nandha Educational Institutions

**PATRON** 

Dr.N.RENGARAJAN

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Dr.S.ARUMUGAM

CEO

**CONVENORS** 

Dr.C.N.Marimuthu

DEAN - R&D

Dr.S.Kavitha

DEAN - ECE

CO-ORDINATORS

Mr.G.Rathanasabhapathy

Assistant Professor/ECE

Mr.D.Arulanadham

Assistant Professor/ECE

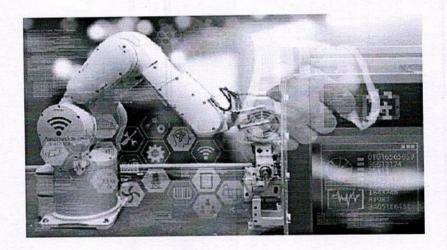
#### INVITATION

The Management, Principal, Faculty members and Students of

Electronics and Communication Engineering department

Cordially invite you for the

**Introduction to Machine Learning** Fundamentals of R programming



by Mr. Anupriyan K Corporate Trainer & Technical Leader, Livewire Erode.

Date: 1 November 16,2021

Time:10.00 am-12.30pm

Venue

**NEC-Conference Hall** 



# NANDHA ENGINEERING COLLEGE, ERODE-52 (AUTONOMOUS)

### **Department of ECE**

### Academic Year 2021-2022

### Introduction to Machine Learning & Fundamentals of R Programming

Date:16.11.2021

S.NO	NAME OF THE TEACHING	F.N	A.N
1	Dr.K.Sharmilee		
2	Dr.R.Murugasami		
3	Dr.D. Arulanantham	C. DARY.	0.92
4	Ms.T.G.Dhaarani		(A)
5	Ms.R.Monica	( <del>Q</del> )	(D)
6	Mr.T.Jayachandran	1 TC	The state of the s
7	Ms.P.Kokila	<b>\$</b>	2
8	Mr.G. Prabhakaran	Ce. Dary	C. Roll.
9	Mr.G.Rathanasabapathy	G. Rathers	G. Rathers
10	Ms.S.Brindha	Sure	gui.
11	Ms.V.Logeswari	4.5	V
12	Mr.E.K.Arul Karthick	A	
13	Mr.G. Praveen santhoshkumar	G1(00)	(H.D) -
14	Ms.V.Parameshwari	V. Bu	V. Pars
15	Niji P.S	Amany	Thatuy

HOD/ ECE

#### Anupriyan K

Corporate trainer & Technical Leader Livewire

Email: eng5.ts@livewireindia.com, Mobile: +91-9345504667

#### **Experience Summary:**

Total Experience: 5 + Years

#### Job Profile:

- Provide Technical Training on Software & Special program products such as Python,
   Django, Java, Advanced Java, C, C++, Blockchain, Data Science, Data Science using
   Python & R, Machine Learning, Full Stack Development MEAN Stack.
- Conduct Online Training and Classroom training to franchise Centre's across India.
- Handled batches in various colleges and Corporate.
- Delivering presentations, workshops and Faculty Development Program for various colleges.
- Programming Knowledge in Javascript, JSON, jQuery, Python, Angular, Java, Node.js
- Experience in different Interfacing Applications like (GUI, CLI, ABI).
- · Worked in the Visual studio code, windows power shell.
- Having good knowledge in (Python Library, Packages, MVC).
- Experience in Software's like Atom IDE, Anaconda, Django, DB Browser for Sqlit3, Oracle, Code Blocks, Notepad++.
- Web design Knowledge in HTML5, CSS3, Js, Bootstrap.
- Development of projects as per customer requirement.

#### Skill Sets

- · Database Architecture
- · Operating Systems
- Data Structures
- SaaS
- Web Services
- UI Toolkits and Frameworks
- Microsoft ASP.NET MVC
- Web API
- Node.js
- Agular
- Express.js
- · Process Analysis.

#### **Educational Qualification:**

- · M.E Anna University, Tamil Nadu,
- B.E Anna University, Tamil Nadu.



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Internal Quality Assurance Cell (IQAC)

### CERTIFICATE OF PARTICIPATION

This is to certify that Dr.D. Arulanandham, Assistant Professor,

of NANDHA ENGINEERING COLLEGE has attended One day Faculty Development Training

Programme titled "Introduction to Machine Learning & Fundamentals of R

programming" on 16.11.2021

3.40000

Hod & Dean / ECE Dr. S. Kavitha Principal Dr. N Renganathan



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Internal Quality Assurance Cell (IQAC)

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S. Alonglie

Hod & Dean / ECE Dr. S. Kavitha Principal Dr. N Renganathan



Affiliated to Anna University, Chennai. Approvedby AICTE Perundurai, Erode - 638 052

Internal Quality Assurance Cell (IQAC)

### CERTIFICATE OF PARTICIPATION

This is to certify that Mrs. P S Niji, Assistant Professor, ECE

of NANDHA ENGINEERING COLLEGE has attended One day Faculty Development Training

Programme titled "Introduction to Machine Learning & Fundamentals of R

programming" on 16.11.2021

Hod & Dean / ECE

Dr. S. Kavitha

W. Harrace

Principal Dr. N Renganathan



Affiliated to Anna University, Chennai. Approvedby AICTE Perundurai, Erode - 638 052

Internal Quality Assurance Cell (IQAC)

### CERTIFICATE OF PARTICIPATION

This is to certify that Mr.E.K.Arul Karthick, Assistant Professor, ECE

of NANDHA ENGINEERING COLLEGE has attended One day Faculty Development Training

Programme titled "Introduction to Machine Learning & Fundamentals of R

programming" on 16.11.2021

Hod & Dean / ECE

Dr. S. Kavitha

Principal Dr. N Renganathan



Affiliated to Anna University, Chennai. Approvedby AICTE Perundurai, Erode - 638 052

Internal Quality Assurance Cell (IQAC)

### CERTIFICATE OF PARTICIPATION

This is to certify that Mrs. R. Monica, Assistant Professor, ECE

of NANDHA ENGINEERING COLLEGE has attended One day Faculty Development Training

Programme titled "Introduction to Machine Learning & Fundamentals of R

programming" on 16.11.2021

Hod & Dean / ECE

Dr. S. Kavitha

Principal Dr. N Renganathan



### NANDHA ENGINEERING COLLEGE

(Autonomous) ERODE - 638 052.



#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING IN ASSOCIATION WITH

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Thiru V. SHANMUGAN

Chairman Sri Nandha Educational Trust Thiru S. NANDHAKUMAR PRADEEP

Thiru S. THIRUMOORTHI

Secretary

Sri Nandha Educational Trust

Secretary Nandha Educational Institutions

**PATRON** Dr.N.RENGARAJAN PRINCIPAL Dr.S.ARUMUGAM CEO

**CONVENORS** Dr.C.N.Marimuthu DEAN - R&D Dr.S.Kavitha DEAN - ECE

**CO-ORDINATOR** 

Dr.R.Murugasamy Associate Professor/ECE

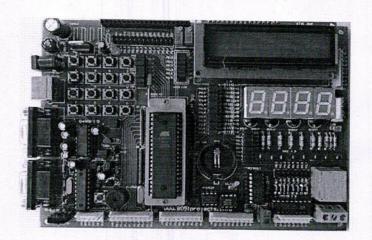
#### INVITATION

The Management, Principal, Faculty members and Students of

Electronics and Communication Engineering department

Cordially invite you for the

Hands on Training and Servicing of Microcontroller Trainer Kits



by Mr. MARUDHUPANDI M Head Training Department, Vi Microsystems ,Coimbatore

Date: 1 April 25th 2022

Time: 10.00 am-01.30pm

Venue Block-II Digital Lab

Mobile No: 9042591157

Email:marudhupandi1995@gmail.com

#### PROFILE SUMMARY:

- Develop Embedded systems software by applying key principles of Embedded systems engineering and mathematical analysis.
- Tested and implemented the communication protocols like UART, I2C, SPI, RS485 and know basics about CAN protocol.
- ➤ Worked with Microcontrollers like ARM Cortex M4, dsPIC30F4011, 8051, Arduino RaspberryPi3 model B and B+, Pico and Siemens IOT2040.
- Coded in Embedded C for microcontrollers in MPLAB IDE, STM Cube IDE, RIDE, Keil IDE, IAR. for Raspberry Pi based IOT.
- Worked with Wireless modules like Lora WAN(rn2483 & MKR1300), ESP 8266,MKR1010,MKR1000.
- Worked with Communication modules like GSM, GPS and RFID reader.

#### WORK EXPERIENCE:

6 month experience as an Production Engineer at Champion plastic Pvt .Ltd ,Hosur.

Currently i am working as a **Project Engineer** at **VI Microsystems Pvt. Ltd.Chennai**, in the Field of **Embedded system and IOT** from February 2020.

#### PROFESSIONAL HISTORY:

#### 1. IOT BASED AUTOMATIC DRIP IRRIGATION CONTROL SYSTEM

#### DESCRIPTION:

Soil Moisture sensor gives the information about the moisture and humidity content of soil. The value of sensed data is transmitted to the control station i.e.Lora WAN(MKR1300) or WiFi (MKR1010). These values has been processed through the Raspberry PI processor. If the soil moisture values and humidity values are below in normal, solenoid valve will turn ON automatically to supply the water in the entire field. By the use of RaspberryPi 3 model B+ processor, can store the data on cloud. We can monitor the soil moisture, humidity and control the solenoid valve through the internet.

# 2. IOT BASED SMART ENERGY MONITORING AND CONTROL SYSTEM.

#### DESCRIPTION:

In this project, we use a smart energy meter (mf384) to get the current consumption data from electrical appliances. This data can be get and transfer to the siemens IOT2040 gateway by using LoRaWAN MKR1300. Through this gateway, data is transferred to the IoT cloud. From the cloud, we can control and monitor electrical appliances.

### 3.SPEED CONTROL OF 3 PHASE LINEAR INDUTION MOTOR USING PWM

#### **DESCRIPTION:**

I developed the software part of speed control of 3 phase Linear induction motor using **PWM** in **dsPIC30F4011.** The induction Motor is connected to the microcontroller via a Motor Driver. The Motor Driver is an IC which receives a **PWM( Pulse Width Modulation)** input from the microcontroller and gives an output to the induction Motor based on the input. By varying the pulse width, the duty cycle of the PWM can be varied. By varying the duty cycle of the induction Motor, the speed and rotation of the motor can be varied.

### 4.MCROCONTROLLER BASED BATTERY CHARGNG SYSTEM

#### **DESCRIPTION:**

The fields used in this project are the **dsPIC30F0411** microcontroller and development tools **buck converter** and other hardware. Five modes of operation used in this project are Constant voltage charge, Constant current charge, Trickle charge, Bulk charge and MPPT charge. Input is taken from the **solar panel** and given to the charger system. Outputs connected to a **lithium-ion battery**, based upon the battery voltage and current PWM produced by the microcontroller.

### 5.ELECTRICAL TWO WHEELER

#### DESCRIPTION:

In this project, I develop the software part dsPIC30F4011 is used to control the speed of the hub motor, measure the speed of the hub motor, measure the battery voltage and current, measure the motor current RYB and measure the motor temperature. These parameters send to the raspberry pi4 through CAN protocol. Raspberry pi is connected with a 7-inch touch display. Through this display, we can monitor the parameters of the electrical vehicle.

#### SOFTWARE SKILLS:

Programming Languages : C,C++, Python.

: RIDE, KEIL, Arduino, STM Cube, IAR, MPLAB, MS Office. > Application Software

: Windows, Linux Operating Systems

### EDUCATIONAL QUALIFICATION:

Under Graduate (B.E)

Mechatronics Engineering from SNS College of technology, Coimbatore.

### CONFERENCES ATTENDED

➤ I have attended a National level conference on Engineering Trends in Automation, Robotics and Mechatronics (NCETARM'18) on March 2018, at SNS College of Technology, Combatore.

### PAPER PRESENTED

"SAFETY ENHANCE SYSTEM FOR SEATBELT" at Bannari amman institute of technology in Sep 2017.

#### **PUBLICATONS**

> "AUTOMATIC SEATBELT RELEASE SYSTEM" Published in IAETSD-Journal for Advanced Research in Applied Science (JARAS) Volume 5, Issue 2, February 2018.

> "SAFETY ENHANCE SYSTEM FOR SEATBELT" Published in International Journal of Scientific Research and Review (IJSRR), ISSN:2279-543X, Volume 7, Issue 3, March 2018.

### PERSONAL PROFILE:

N.Murugan Father's Name M.Amudha Mother's Name

male Gender

19-10-1995 Date of Birth Single **Marital Status** 

Tamil, English Languages known

3/83 Belur main road,

Athanurpatty Address (POST), Valappady (Taluk),

Salem(Distric) -PIN 636115.



# NANDHA ENGINEERING COLLEGE,ERODE-52 (AUTONOMOUS)

### Department of ECE

### Academic Year 2021-2022

### Hands on Training in servicing of Microcontroller Trainer Kits

Date:25.04.2022

S.NO	NAME OF THE NON TEACHING	F.N	A.N
1	M.GANESHAMOORTHY	Mr Cons	M. Gu
2	A.JERLIN JABE SELVI	A. 525	A. Jely.
3	R.KALPANA	R. Kolp	R. Jealy
4	R.THANGAVEL	R. Thym	P. Ty
5	G.KOMALAVALLI	61.19	9.5
6	B.P.NAVEEN	BROOM	BRODE
7	KAVITHA	N Koulto	W. Kareto



#75, Electronics Estate, Perungudi, Chennai, Tamilnadu, India - 600 096.

-- Phone: 044 2496 0774, 2496 1842, 2496 1852, 2496 3142

E-Mail: sales@vimicrosystems.com | Website: www.vimicrosystems.com | GSTIN: 33AAACV0909J1ZJ | TIN: 33891580314 | PAN: AAACV0909J

> K.T. Marban M.E., Head – Training Department

VI Microsystems Pvt. Ltd., Channai

#75, Electronics Estate, Perungudi, Chennai, Tamilnadu, India - 600 096.
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K.T. Marban M.E.,

Head – Training Department

VI Microsystems Pvt. Ltd., Chennai

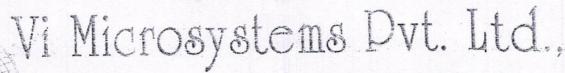
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E-Mail: sales@vimicrosystems.com | Website: www.vimicrosystems.com
GSTIN: 33AAACV0909J1ZJ | TIN: 33891580314 | PAN: AAACV0909J

This is to certify that Mr/Mrs. A: JERIN JEBA SELVI... Had attended one day "Hands on Training in Servicing of Microcontroller Trainer Kits" conducted by Vi Microsystems Pvt Ltd., Chennai on 15th December 2021 at Nandha Engineering College, Erode.

K.T. Marban M.E., Head – Training Department

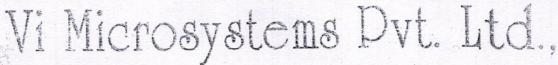
VI Microsystems Pvt. Ltd., Chennai



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K.T. Marban M.E.,
Head – Training Department
VI Microsystems Pvt. Ltd., Chennai





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K.T. Marban M.E.,

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VI Microsystems Pvt. Ltd., Chennai