



NANDHA ENGINEERING COLLEGE

(AUTONOMOUS)

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

ERODE – 638052 TAMILNADU

Email :principal@nandhaengg.org Mobile : 73737 12234

POST EVENT REPORT

Department	Electronics and Communication Engineering	
Name of the event	Soft skills / Language and communication skills / Life skills (Yoga, physical fitness, health and hygiene) / Awareness of trends in technology	
Title of the Event	Hands on Training for Real-Time IoT applications using ESP 32 Controller.	
Date & Time	19.10.2022 & 20.10.2022	9.30 AM – 4.00 PM
Venue	Industry Supported Laboratory , Block – 2, Second Floor	
Name of the Chief Guest	Mr.Elango Manivannan, Software Developer, Mr.M.Maruthupandi, Project Engineer, Vi Microsystems Pvt. Ltd, Chennai	
Designation of the Chief Guest	Project Engineer	
Number of Participants	54	
Outcome	The Final year students will be able to develop Final year academic projects, II Year and III year students will be able to develop Project based learning (PBL) projects for IoT applications using ESP 32 controller.	
Feedback	Session was good and gave an insight to complete the projects using ESP 32 Controller.	



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Invitation



NANDHA ENGINEERING COLLEGE (Autonomous)

Affiliated to Anna University

Perundurai, Erode - 638 052.



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

(Accredited by NBA)

in association with

INDUSTRY SUPPORTED LABORATORY
(Vi Microsystems Pvt. Ltd., Chennai, Tamilnadu, India)

&

INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS
organizes



Hands on training for Real-time IoT application using ESP 32 controller

RESOURCE PERSONS



Mr. Elango Manivannan

Software Developer,
Vi Microsystems Pvt. Ltd,
Chennai.



Mr. M. Marudhupandi

Project Engineer,
Vi Microsystems Pvt. Ltd,
Chennai.

STUDENT COORDINATOR

Mr. R.K. Bhoopesh

Student Secretary
IV Year / ECE

FACULTY COORDINATORS

Mr. M. Srinevasan, Assistant Professor / ECE

Ms. T.G. Dhaarani, Assistant Professor / ECE

CO-CONVENOR

Ms. V. Parameshwari, Assistant Professor / ECE
(Industry Supported Laboratory Incharge)

CONVENORS

Dr. S. Kavitha, Dean / ECE

Dr. C.N. Marimuthu, Dean / R&D

DIRECTOR

Dr. J. Senthil
Nandha Engineering College

PRINCIPAL

Dr. N. Rengarajan
Nandha Engineering College

Date : 19.10.2022 & 20.10.2022

Venue : Industry Supported Laboratory - Block 2, 2nd Floor

Last Date to Register : 12.10.2022



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Welcome address by Head of the Department



Principal Address





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(AUTONOMOUS)

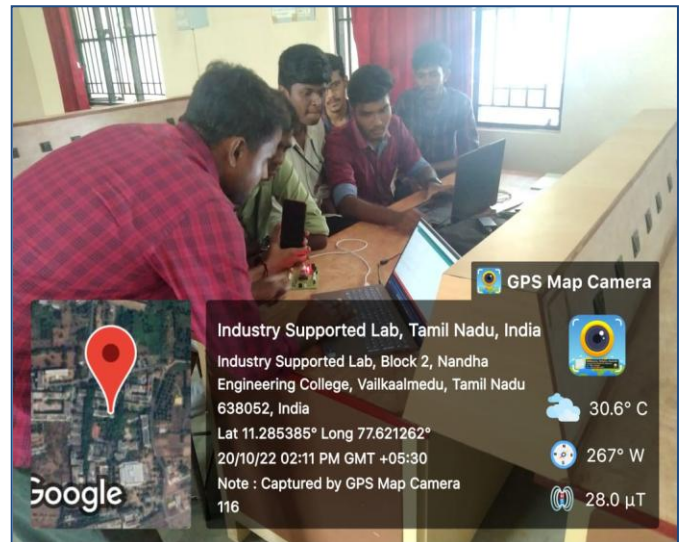
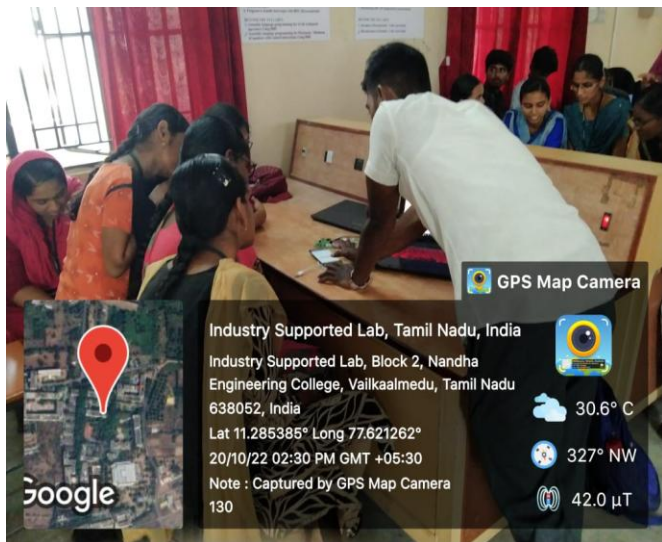
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Hands on Training by Resource Persons

Photos





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Certificate Distribution for participants



Faculty Group Photo





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Chief Guest Profile

MARUDHUPANDI M

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.



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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. Raspberrry pi is connected with a **7-inch touch display**. Through this display, we can monitor the parameters of the electrical vehicle.



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SOFTWARE SKILLS:

- **Programming Languages** : C,C++, Python.
- **Application Software** : RIDE, KEIL, Arduino , STM Cube,IAR ,MPLAB,MS Office.
- **Operating Systems** : Windows, Linux

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,Coimbatore.

PAPER PRESENTED

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

PUBLICATIONS

- **"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:

Father's Name	:	N.Murugan
Mother's Name	:	M.Amudha
Gender	:	male
Date of Birth	:	19-10-1995
Marital Status	:	Single
Languages known	:	Tamil, English
Address	:	3/83 Belur main road, Athanurpatty (POST),Valappady(Taluk), Salem(District) -PIN 636115.



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Elango Manivannan

Software Developer

A highly motivated software engineer seeking to get a position in a reputed company, where I can use my skills and knowledge to learn new things and grow as a software developer.



✉ elankyoket@gmail.com

📍 Chennai

🌐 github.com/elankyoket

📞 9952269356

🌐 linkedin.com/in/elan-kyoket-502461250

WORK EXPERIENCE

IOT INTERNSHIP TRAINING

Vi MicroSystems Pvt Ltd

07/2021 - 07/2022

Chennai, India.

In my 7th and 8th semester of Engineering i'm here for internship due to high interested in IOT , joined as a Full time Developer .

Software Developer

Vi MicroSystems Pvt Ltd

07/2022 - Present

Chennai, India.

PERSONAL PROJECTS

Detecting missing values in database using mathematical prediction

- In this project we can recover the possible datas in organizations by using prediction algorithms like dft , polynomial prediction and etc.
- by Java with SQL Server

IOT Cloud Computing

- Interfacing with Sensors and update the sensors data to ubidots and thingspeak cloud
- use Data science and Data analytics

EDUCATION

Bachelor Of Engineering

Sengunthar Engineering College

07/2019 - 07/2022

Tiruchengode, Tamil Nadu.

Computer Science And Engineering

- with 7.2 * CGPA(*upto 7th semester)

Diploma In Computer Engineering

Kongu Polytechnic College

06/2016 - 05/2019

Perundurai, Tamil Nadu

Computer Science And Engineering

- with 66 %

SKILLS

Python, Html, Css, Javascript, Sql and Django

Intermediate Knowledge in Linux Server Administration And Cloud Deployment

Working with Docker

WORKSHOP

Ethical Hacking Workshop at IIT (Chennai)

To get a in depth knowledge about hacking i attended 3 continuous workshop at IIT professionals collaborative with azure cloud .

LANGUAGES

English
Full Professional Proficiency

Tamil
Native or Bilingual Proficiency

INTERESTS

Hardware and Networking

Cloud Computing And Virtualization

Racing & Paragliding

Gymnastics & Bodybulding



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Programme Participation List

DEPARTMENT OF ECE

Hands on Training for Real-time IoT Application using ESP-32 Controller

Programme – Registration form

NANDHA ENGINEERING COLLEGE (Autonomous), ERODE-638052
 Affiliated to Anna University, Chennai
 Department of Electronics and Communication Engineering
 (Accredited by NBA)
 Industry Supported Lab, Vi Microsystems Private Limited, Chennai
 &
 Institution of Electronics and Telecommunication Engineers (IETE)
 Hands on Training on RealTime IoT applications using ESP 32 controller

Date: 19.10.2022 & 20.10.2022

Registration Form

S.NO	Name of the participant	Designation	College Name	Mobile Number	Mail Id	Signature of the participant
1	K. Hemadharshini	student	Nandha Engineering college	9488540085	ksivaniharshini1122@gmail.com	<i>[Signature]</i>
2	R. Harini	student	Nandha Engineering College	9786602440	ramash.harini1010@gmail.com	<i>[Signature]</i>
3	aj. Harshavarthini	student	Nandha Engineering College	9025527348	achhuofficial0425@gmail.com	<i>[Signature]</i>
4	N. Keerthana	student	Nandha Engineering College	9659649349	keerthanan382001@gmail.com	<i>[Signature]</i>
5	S. Deepika	student	Nandha Engineering College	9361106949	deepika521602@gmail.com	<i>[Signature]</i>
6	N. Keerthana	student	Nandha Engineering College	6374496703	keerthananataraj2019@gmail.com	<i>[Signature]</i>
7	D. Kishor Kharan	student	Nandha Engineering College	7700522236	kishor.kharan2001@gmail.com	<i>[Signature]</i>
8	V. Grayal vanan	student	Nandha Engineering College	6374194096	grayalvanan@gmail.com	<i>[Signature]</i>
9	Ksm. Hazi wignesh	student	Nandha Engineering College	9868906666	haziwignesh8022@gmail.com	<i>[Signature]</i>
10	R. Gokul	student	Nandha Engineering College	9080950299	gokultrayalingam27@gmail.com	<i>[Signature]</i>

[Signature] 20/10/22
 Co-ordinators

[Signature] 20/10/22
 Co-convener

[Signature] 20/10/22
 Convener

[Signature] 20.10.2022
 Principal



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&

Institution of Electronics and Telecommunication Engineers (IETE)

Hands on Training on RealTime IoT applications using ESP 32 controller



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Registration Form

S.NO	Name of the participant	Designation	College Name	Mobile Number	Mail Id	Signature of the participant
11	P. Sathish Kumar	Student	Nandha Engineering college	6369360245	sathishkumar1954@gmail.com	P. Sathish Kumar
12	P. Sathish Kumar	student	Nandha Engineering college	8825960554	Sathish070777@gmail.com	P. Sathish Kumar
13	C. Ragul	Student	Nandha Engineering College	8344406829	raguls10agm@gmail.com	C. Ragul
14	Tamilarasu.V	Student	Nandha Engineering College	9360388691	tampigiri@gmail.com	V. Sathy
15	M. Riyaz Khan	Student	Nandha Engineering clg	8825657745	riyazkhan1909@gmail.com	M. Riyaz Khan
16	T. Vikneshwaran	Student	Nandha Engineering clg	9345592979	vicky465007@gmail.com	T. Vikneshwaran
17	R. SIVASHANKAR	Student	Nandha Engineering clg	9344733893	sivashankarshiv47@gmail.com	R. Sivasankar
18	M. SABARISH	Student	Nandha Engineering clg	9025198019	Sabarish yageshwaran@gmail.com	M. Sabarish
19	V. S. Gopabakannan	student	Nandha Engineering clg	6374167615	GopabakannanVK473@gmail.com	K. Gopabakannan
20	A. Dhinesh	student	Nandha Engineering college	9360448462	dhineshananthan@gmail.com	A. Dhinesh

M. S. Gopabakannan
24/10/22
19/10/22
Co-ordinators

V. Paul
20/10/22
Co-convener

S. R. Ramesh
20/10/22
Convener

R. Sathish Kumar
20.10.2022
Principal



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&

Institution of Electronics and Telecommunication Engineers (IETE)

Hands on Training on RealTime IoT applications using ESP 32 controller



Date: 19.10.2022 & 20.10.2022

Registration Form

S.NO	Name of the participant	Designation	College Name	Mobile Number	Mail Id	Signature of the participant
21	Rahul p.k	Student	Nandha Engineering College	7356370309	rahulpk2001@gmail.com	Rahul p.k
22	Bhavan Vidyathi S	Student	Nandha Engineering College	8680885068	Bhavanbaki2001@gmail.com	Bhavan
23	VIGNESHWARAN S	Student	Nandha Engineering College	9788650759	VIGNESHWARAN0506@gmail.com	Vignesh
24	S.Ganana Kumar	Student	Nandha Engineering College	9597189566	ganana.kumar2362@gmail.com	S.Ganana
25	VENKATESAN.N	Student	NANDHA ENGINEERING COLLEGE	93614 99916	Venkatesan007venkat@gmail.com	N.Venkatesan
26	JAYADEV.G	Student	Nandha Engineering college	824 8692593	Jaydevrg002@gmail.com	Jaydev
27	TamilSelvan.A.K	Student	Nandha Engineering college	6374026561	tamilselvankumar28@gmail.com	Tamil Selvan
28	J.S.BALASHASANTH	Student	Nandha Engineering College	8124695886	balashasanth@gmail.com	Balashasanth
29	C.NITHISH KUMAR	Student	Nandha Engineering College	7010810744	nithishkumar144@icr	Nithish
30	S.SABARENATHAN	Student	Nandha Engineering College	8903367512	Nathansabari013@gmail.com	Sabari Nathan

M.S. Vignesh
Co-ordinators
19/10/22

V. Pall
Co-convenor
20/10/22

S. Ganana
Co-ordinator
20/10/22

N. Venkatesan
Principal
20.10.2022



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S.NO	Name of the participant	Designation	College Name	Mobile Number	Mail Id	Signature of the participant
31.	J. Jayalakshmi	Student	Nandha Engineering College	9488328611	jeerajaya0021@gmail.com	J. Jayalakshmi
32.	B. Jansi	Student	Nandha Engineering College	9344705056	JAT812004@gmail.com	B. Jansi
33.	M. Rukmani	Student	Nandha Engineering College	9080361499	rukun296@gmail.com	M. Rukmani
34.	V. Sharmika	Student	Nandha Engineering College	6269233802	sharmika24@gmail.com	V. Sharmika
35.	K. Darshana	Student	Nandha Engineering College	9363049101	darshanakarthik2002@gmail.com	K. Darshana
36.	V. Sivaranthini	Student	Nandha Engineering College	9363381277	SivaranthiniVeluchamy2003@gmail.com	V. Sivaranthini
37.	M. Subhasree	Student	Nandha Engineering College	8072321155	msubhasree152@gmail.com	M. Subhasree
38.	S. Roobul	Student	Nandha Engineering College	9060684390	roobul11d24@gmail.com	S. Roobul
39.	P. Dithik	Student	Nandha Engineering College	9360642556	prasad1936@gmail.com	P. Dithik
40.	M. Ranjith	Student	Nandha Engineering College	9151249370	ranjith123mm@gmail.com	M. Ranjith

M. R. Mohan
Co-ordinators

V. Pall
Co-convenor

S. Ranjith
Convener

M. S. K.
Principal
20.10.2022



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S.NO	Name of the participant	Designation	College Name	Mobile Number	Mail Id	Signature of the participant
41.	Y. Vishnupraja	Student	Nandha Engineering College	9892911592	vipejsvd@gmail.com	
42.	S. Yashini	Student	Nandha Engineering College	8675990175	yashinisomasundaram@gmail.com	
43.	S. R. Jashya	Student	Nandha Engineering College	8870216345	jashyavari@gmail.com	
44.	S. Varshini	Student	Nandha Engineering College	7339116712	varshinis2204@gmail.com	
45.	B. Mehala	Student	Nandha Engineering College	7010029504	mehala07@gmail.com	
46.	K. R. Hema	Student	Nandha Engineering College	8754799439	hema.20ec026@nandhaengg.org	
47.	V. Dhivyadharshini	Student	Nandha Engineering College	7502345146	dhivyavadi15@gmail.com	
48.	B. Monikka	Student	Nandha Engineering College	9443331830	bmmonikka@gmail.com	
49.	S. Sharmila	Student	Nandha Engineering College	9659917148	Sharmila.Sii.Sabarish@gmail.com	
50.	S. Sahana Fariz	Student	Nandha Engineering College	8668180640	fathimafariz0307@gmail.com	

Co-ordinators

Co-convenor

Convener

Principal



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Department of Electronics and Communication Engineering

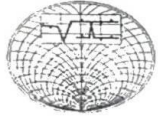
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S.NO	Name of the participant	Designation	College Name	Mobile Number	Mail Id	Signature of the participant
51	NAVEEN KUMAR G	Student	Nandha Engineering college	63819559	nb07official@gmail.com	Naveen Kumar G
52	M. Gowtham	student	Nandha Engineering college	87541103135	gowthamm894@gmail.com	M. Gowtham
53	M. Manikandan	student	Nandha Engineering college	8925107166	manikandamm8925@gmail.com	M. Manikandan
54	JAMBUKESWARAN.S	student	Nandha Engineering college	9360725859	jambukeshwaranb1@gmail.com	Jambukeshwaran S

M. Manikandan
19/10/22
Co-ordinators

V. P. Aravind
20/10/22
Co-convener

P. Aravind
20/10/22
Convener

N. Aravind
20.10.2022
Principal



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**Industry Supported Laboratory, Vi Microsystems Private Limited, Chennai
&
Institution of Electronics and Telecommunication Engineers (IETE)**

Hands on Training for Real-Time IoT applications using ESP 32 controller.

The Hand on Training Program was organized on 19.10.2022 and 20.10.2022 from 9.30 am to 4.30 pm. It was handled by **Mr.Elango Manivannan, Software Developer and Mr.Maruthupandi Murugan, Project Engineer, Vi Microsystems Pvt Ltd, Chennai**. The objective of the training is to establish knowledge about the basics of IoT, installation of Arduino IDE, its libraries and its implementation in the IoT field and encourage the students to make their own project. In the training, the students were introduced to the basics of IoT, implementation of Analog and Digital sensors with LED interfacing, Switch interfacing, Communication with mobile phone and its interfacing with cloud using ESP Controller. The students gained comprehensive knowledge, so that they will be able to participate in various project Expo and carry out their final year academic projects and PBL projects.

M.S. Mani
20/10/22
Co-ordinators

V. Pal
20/10/22
Co-convener

S. K. Mani
20/10/22
Convener

R. Mani
20/10/2022
Principal