

Three Days Workshop on “Introduction to Arduino”

About the Institution

Vimal Jyothi Engineering College (VJEC) is an educational project of the Archdiocese of Thalassery established in the year 2002 and is managed by Meshar Diocesan Educational Trust. The college is approved by AICTE and affiliated to APJ Abdul Kalam Technological University (KTU). VJEC is a self-financing catholic minority institution aiming at generating a fervor for Engineering and Technology in students. Here we inspire, nurture and foster them to realize their career potential in the field of Engineering and Technology.

With profound insight into the resource requirements of the higher education system, VJEC has proudly set up world-class infrastructure complemented with intellectual capital in the form of competent faculty. Many of the facilities are way beyond the regulatory requirements aiming for learning beyond the syllabus to address the requirements of the industry. These material facilities along with value addition programs and student support systems are the integral facets of empowerment at VJEC.

Digital library, industry supported project labs, language lab, and student chapters of professional bodies such as IEEE, ISOI, IETE, SAE, CSI offer an extensive range of resources, opportunities and services to the outcome based teaching learning process. Effective implementation of quality control processes ensure Engineering graduates with the expected level of knowledge, skill and attitude.

About the Department

The Mechanical Engineering Department was established in the year 2004. It was Accredited by the NBA from 2020-2021 to 2022-2023. The Department offers students the opportunity to pursue an exceptional, high-quality education. It has been recognized as Research Centre to have interaction with KTU University, Kerala for a collaborative research program that leads to a Ph.D. degree by research. The department is one of the largest in terms of faculty, students, & activities and continues to lead and expand its activities in various directions. The department has distinguished faculties, dedicated staff, and a superb student body that effectively works together to fulfill the academic mission. The academic activities are supported by seven well-equipped laboratories/research centers.



DEPARTMENT OF MECHANICAL ENGINEERING
VIMAL JYOTHI ENGINEERING COLLEGE
Accredited by NAAC and NBA
Chemperi, Kannur, Kerala - 670632
www.vjec.ac.in

About the Course

The workshop is designed for beginners to learn the fundamentals of microcontrollers, embedded systems, and basic electronics using the Arduino board. The workshop covers topics such as circuits, breadboards, voltage regulation, sensors, actuators, and programming using the Arduino IDE. Participants will also learn how to assemble a robot, build a line follower, and create an obstacle or edge avoider. This workshop provides an excellent opportunity for anyone interested in building simple electronic projects using microcontrollers.

Objectives

The objective of the Arduino and Microcontroller workshop is to provide beginners with a solid understanding of microcontrollers, embedded systems, and basic electronics using the Arduino board. Participants will learn how to use various sensors and actuators to build simple electronic projects, and they will be able to program the Arduino board using the Arduino IDE. By the end of the workshop, participants will have the skills and knowledge needed to create their own electronic projects using the Arduino board.

Expected Outcomes

1. Participants will have a solid understanding of microcontrollers, embedded systems, and basic electronics.
2. Participants will be able to use various sensors and actuators to build simple electronic projects.
3. Participants will be able to program the Arduino board using the Arduino IDE.
4. Participants will be able to configure pins, control the serial monitor, and run a blink code on the board.
5. Participants will have hands-on experience in assembling a robot, building a line follower, and creating an obstacle or edge avoider.
6. Participants will have the skills and knowledge needed to create their own electronic projects using the Arduino board.
7. Participants will be equipped with the necessary skills to pursue further learning and exploration in the field of microcontrollers and embedded systems.

Participation is FREE for all IEEE RAS members of VJEC

E-Certificate will be provided for all registered participants.



VIMAL JYOTHI
ENGINEERING COLLEGE

JYOTHI NAGAR, CHEMAPERI - 670632, KANNUR
Affiliated to APJ Abdul Kalam Technological University
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DEPARTMENT OF MECHANICAL ENGINEERING

Three days Workshop on “Introduction to Arduino”



25th -27th February 2023

Organized by IEEE RAS SBC03711F @ VJEC, Kannur, RA24

Coordinator

Dr. S Christopher Ezhil Singh
IEEE RAS SBC Staff Advisor
Department of Mechanical Engineering
VJEC

Resource Person

Mr. Anoop K R
IEEE RAS Member
Department of Mechanical Engineering
VJEC





VIMAL JYOTHI ENGINEERING COLLEGE
DEPARTMENT OF MECHANICAL ENGINEERING
 JYOTHI NAGAR, CHEMPERI - 670632, KANNUR, KERALA
 ACCREDITED BY IE: NBA & NAAC • ISO 9001:2015 CERTIFIED
 APPROVED BY ALL TQA COUNCILS FOR TECHNICAL EDUCATION
 AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY



Event proposal form

1	Event type and name	IEEE RAS SBC organizing a three days' Workshop on "Introduction to Arduino"
2	Date and time	25 th -27 th Feb 2023 09.00 AM- 04.00 PM
3	Participants/ audience	UG students
4	Venue	CAD LAB and Robotics club lab
5	Objectives	The objective of the Arduino and Microcontroller workshop is to provide beginners with a solid understanding of microcontrollers, embedded systems, and basic electronics using the Arduino board. Participants will learn how to use various sensors and actuators to build simple electronic projects, and they will be able to program the Arduino board using the Arduino IDE. By the end of the workshop, participants will have the skills and knowledge needed to create their own electronic projects using the Arduino board.
6	Expected outcomes	<ul style="list-style-type: none"> ➤ Participants will have a solid understanding of microcontrollers, embedded systems, and basic electronics. ➤ Participants will be able to use various sensors and actuators to build simple electronic projects. ➤ Participants will be able to program the Arduino board using the Arduino IDE. ➤ Participants will be able to configure pins, control the serial monitor, and run a blink code on the board. ➤ Participants will have hands-on experience in assembling a robot, building a line follower, and creating an obstacle or edge avoider. ➤ Participants will have the skills and knowledge needed to create their own electronic projects using the Arduino board. ➤ Participants will be equipped with the necessary skills to pursue further learning and exploration in the field of microcontrollers and embedded systems.
7	Connected PEOs/POs/COs	PO2, PO3, PO6, PO7, PO8, PO10, PO12, PSO1, PSO2
8	Resource requirements	Resource Person: Mr. Anoop KR, IEEE RAS Member, Assistant Professor, Department of Mechanical Engineering, VJEC, Kannur.
9	Any other relevant information	Nil
10	Responsible persons	Dr.S.Christopher Ezhil Singh, Professor, Dept. of ME

Proposal prepared by *[Signature]* 20/02/2023
 Dr.S.Christopher Ezhil Singh,
 IEEE RAS Staff Advisor
 Professor, Dept. of ME, VJEC

[Signature]
 Recommended by
 Cdr. (Ret.) Raju K Kuriakose,
 HOD, Dept. of ME
 VJEC

[Signature]
 Principal
 VJEC

Sl.No.	Name	Sem/Year	Member ID	Non-Member
1	NIRMAL DEV	56/3 rd	98290131	
2	Vyshnav . P	56/3 rd	98290	✓
3	Tinu . George	56/3 rd	98290556	
4	Vaishnav . V	56/3 rd	98290191	
5	VIPIN . J V	56/3 rd	98290169	
6	THOMAS JONATHAN	56/3 rd	98942359	
7	Rinto . K . P	56/3 rd	98290193	
8	Aishwarya . K	56/3 rd		
9	Abdul Rasheed	56/3 rd		✓
10	Abhinav . K	56/3 rd		✓
11	Abhinav . Nayal	56/3 rd		✓
12	Abhinav . Rajesh	"		✓
13	Abhinav . Raju . Radhakrishnan	"		✓
14	Abhinav . Eshan	"		✓
15	Adarsh . Benny	"		✓
16	Adarsh . K	"		✓
17	Adarsh . K Akshay . C .	"		✓
18	Aadil . P	"		✓
19	Aarsh . Abhinav . C S	"		✓
20	Alex . Jose	"		✓
21	Anitha . P	"		✓
22	Anand . Thomas	"		✓
23	Ajith . Manoj	"		✓
24	Ashwin . Sabu	"		✓
25	Bijay . Babu	"		✓
26	C . Abhinav	"		✓
27	Georgkutty . P .	"		✓
28	Harish . K .	"		✓
29	Haridharan . N	"		✓
30	Jayagovind . K	"		✓
31	Jithin . K	"		✓
32	Jithin . Jenson .	"		✓
33	Muhammed . Ajmal . K . P	"		✓

Sl.No.	Name	Sem/Year	Member ID	Non-Member
1	Sharon Scavia	5 th sem	98290699	
2	Nirmal Thomas	"	98290438	
3	SRIKARAN CM	6 th	98290167	
4	Adithya Madhu	6 th sem	98289906	
5	Jithin Das C	6 th sem	98289945	
6	Anvadh K V	6 th sem	98263965	
7	Adarsh M. S	6 th sem	98289983	
8	Amsnee P. Nair	2 th sem	98943225 9828999998	
9	Sayooj Rajan	4 th sem		
10	Muhammed Rashid. V. A	5 th sem		✓
11	Nabil P P	-		✓
12	Nazil Ash	"		✓
13	Pranav gni. C	"		✓
14	Rijin. S. Nambiar	"		✓
15	Rinto. K. A.	"		✓
16	Salvin. Josy	"		✓
17	Sathwik Sivan	"		✓
18	Sharon Hari	"		✓
19	Sharon. Scavia	"		✓
20	Sooraj P. V	"		✓
21	Sravan Kolshnan	"		✓
22	Sudhraj. K. P.	"		✓
23	Sai Sainand. S	"		✓
24	Thomson Thomas	"		✓
25	Vishnav. P. V	"		✓
26	Vennu Vijayan. K.	"		✓
27	Vishnav. E	"		✓
28	Yahya Mahmood	"		✓
29	Jeevan. Raj	"		✓
30	Sanjay. M. K.	"		✓
31	Vaishakh K	"		✓
32	Jithin. Sreendran.	"		✓
				✓

