

STEERING COMMITTEE

Patron

Dr. Thara K Simon, *Principal*
Rev. Thomas John, *Manager*

General Convenor

Mr. Akhil T V, *Head of the Department*
Dr. Alex Mathew, *Head of the Department*

Convenors

Ms. Rakhy Raphael
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Mr. Lijo Thomas
Mr. Ajan P J

For Further Details

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<https://www.facebook.com/cme.ucc>

<https://computermaintenanceandelectronics.uccollege.edu.in>

REGISTRATION FEE | College Students: Rs. 100/-
Faculty Members: Rs. 200/-

Registration Link: <https://forms.gle/oEbhf4wq5sJkhYHU8>

UNION CHRISTIAN COLLEGE

Aluva- 683102, Kerala, India (Estd. 1921)
(Re-accredited with 'A' Grade by NAAC)

DEPARTMENT OF ELECTRONICS AND COMPUTER MAINTENANCE

in association with

DEPARTMENT OF PHYSICS

(DBT STAR SUPPORTED)



Five Day WorkShop on

"ARDUINO PROGRAMMING"

DATE:

7th - 11th
February 2022

PLATFORM



ABOUT COLLEGE

The Union Christian College ,Aluva was founded in 1921 as an ecumencial ,Indian Christian Initiative in the field of higher education in Kerala.The college is located on the banks of river Periyar,about 12 kilometers away from Cochin International Airport.Affiliated to the Mahatma Gandhi University Kottayam, the institution is known for its academic excellence and social commitment,and has been rated 'A' Grade by the National Assessment & Accreditation Council(NAAC).

ABOUT DEPARTMENTS

B.Sc. Programme in Electronics& Computer Maintenance is a two core courses programme under choice based course credit and semester system. It was started in 2001 as a U.G.C sponsored vocational course .The programme aims to provide a strong foundation for developing skills in electronic circuit designing, software development, assembling, troubleshooting and maintenance of computers with the objective to equip students to pursue careers in Electronics, IT and Computer Hardware related fields or to go in for higher studies in the related disciplines and also enable students to start an enterprise of their own.

The department of Physics, Union Christian College, Aluva, has scaled new heights since its inception in 1926. The B. Sc. Physics course was started in 1939. In 1958, the department saw the dawn of a new horizon with the sanction of M. Sc. Physics which was the first approved PG course by UGC to a private college in Kerala. The department became a recognised research centre under M G University in 1985 and from 2011 onwards it began to flourish into a full-fledged research group.

Programme Schedule

DAY 1 7 February 2022 Time:7 PM	Embedded System & Arduino – Basics Embedded System Microprocessor vs Microcontroller Arduino Introduction Arduino IDE Digital I/O Analog Pins Serial Communication PWM
DAY 2 8 February 2022 Time:7 PM	Circuit Designing & Realization – Proteus Simulation - LED Simulation - Astable Multivibrator using BC547 How to add Arduino in Proteus Simulation – Arduino
DAY 3 9 February 2022 Time:7 PM	Arduino interfacing : LED, Switch, PWM Interfacing - LED Blinking Interfacing - LED Chaser Interfacing - LED Fading Interfacing – button with LED Interfacing – LED PWM
DAY 4 10 February 2022 Time:7 PM	Arduino with LCD, Sensors Interfacing – LCD with Arduino Interfacing – LCD Scrolling Interfacing – Temperature Sensor Interfacing – PIR Sensor Interfacing – Ultrasonic Sensor Interfacing – Gas Sensor
DAY 5 11 February 2022 Time:7 PM	Robotics with Arduino Introduction to Robotics DC Motor Interfacing DC Motor Driver – L293D Direction Controlled Robot