



KONGUNADU ARTS AND SCIENCE COLLEGE
(AUTONOMOUS)
Re-accredited by NAAC with A⁺ Grade - 4th cycle,
College of Excellence – UGC
52nd Rank among Colleges in NIRF 2024
Coimbatore - 641 029, Tamil Nadu, India



DEPARTMENT OF COMPUTER SCIENCE (AIDED)
Hands on Training Programme on “Arduino based Microcontroller”
Supported by
DBT STAR COLLEGE SCHEME
REPORT

Name of The Event	Hands on Training Programme on “Arduino based Microcontroller ”
Date	15.09.2025
Time	10:00 AM
Venue of The Programme	Lab VI
Resource Person	Dr. Sabarishwaran Arunagirisamy, Junior Data Scientist Accent Technosoft, Coimbatore
Objectives of the Programme	• Introduce the fundamentals of microcontrollers with a focus on Arduino platforms. • Develop practical skills in programming Arduino boards using C/C++ and Arduino IDE. • Familiarize participants with interfacing various sensors and actuators. • Provide hands-on experience in building basic electronic circuits and embedded systems projects.
Outcome of the Programme	• Participants will understand the architecture and operation of Arduino microcontrollers. • Ability to write, upload, and debug Arduino programs for various applications. • Skills to interface sensors (temperature, IR, ultrasonic, etc.) and actuators (motors, LEDs, relays) with Arduino. • Competency in developing basic real-time embedded systems and IoT prototypes.
Number of Beneficiaries with class (Both students and faculty)	II B.Sc Computer Science - 26 III B.Sc Computer Science - 38 Faculties: 2 Dr.A.Kavitha Mrs.S.Vishalini Total No of Beneficiaries: 66

Report in Detail:

A Hands-on Training Programme on “Arduino-based Microcontroller” was successfully organized with the aim of equipping participants with practical knowledge and skills in embedded systems using the Arduino platform.

The event began with a warm welcome address delivered by **Dr. A Kavitha, Head of the Department, Computer Science (Aided)** who extended heartfelt greetings to all the participants, resource persons, faculty members, and organizers. In the address, the importance of embedded systems and microcontrollers in modern-day applications was highlighted, along with the relevance of Arduino in educational and prototyping environments.

The resource person **Dr. Sabarishwaran Arunagirisamy**, Junior Data Scientist Accent Technosoft, Coimbatore delivered an insightful and intellectually stimulating lecture. The training programme was designed with well-structured objectives that focused on introducing participants to the fundamentals of microcontrollers, particularly the Arduino architecture. It aimed to develop essential skills in programming Arduino boards using the Arduino IDE, understanding input/output operations, and interfacing sensors and actuators. The sessions provided extensive hands-on exposure where participants engaged in real-time circuit building, sensor data acquisition, and small-scale project development. Participants gained practical experience with devices such as LEDs, ultrasonic sensors, temperature sensors, motors, and other components commonly used in embedded systems. By the end of the programme, participants were confident in creating basic Arduino projects and were inspired to explore more advanced topics in IoT, robotics, and automation.

The event concluded with a heartfelt vote of thanks delivered by **Mrs. S. Vishalini** who expressed sincere gratitude to the management, organizing committee, and technical team for their support and coordination in making the event a success. Special thanks were extended to the resource persons for sharing their knowledge and expertise, and to the participants for their active engagement and enthusiasm throughout the sessions.



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Photos

