

## "TWO DAYS SKILL ENHANCEMENT PROGRAM ON EMBEDDED SYSTEMS USING ARDUINO"

**(For B. Sc. (Electronics) and M.Sc. (Physics) Students)**

Department of Physics/Electronics in association with IQAC, Karnatak Science College, Dharwad has organised two days skill enhancement training on “Embedded system using Arduino” for B.Sc. (Electronics) and M.Sc. (Physics) students on 18<sup>th</sup>-19<sup>th</sup> May 2022. 32 students participated in the training program. The training programme was inaugurated by Principal, Dr. S.C. Chougala. In his inaugural address, Principal emphasised on developing additional skills along with regular academic programme. Dr. L.T. Nayak, Coordinator, IQAC, has opined that, the quality of the institutions can only be elevated by conducting such training programmes to the younger generation. Prof. M.R. Ranganath H.O.D., Department of Physics, motivated the students to involve actively and make best use of the opportunity. Dr. (Smt.) Nirupama J.M., Coordinator, Electronics, explained about the objectives and importance of the training programme.



Embedded systems have become integral part of life. They have wide range of applications such as in automobiles, Digital TV, ATM, home appliances, security systems, Missile tracking system and so on. Any device that includes a programmable computer is an embedded system. It performs specific task but it is not a general purpose computer. The necessity of sensors, transducers, operating systems and sophisticated user interfaces is increasing exponentially hence any electronic device can be easily designed using embedded development board known as Arduino. In this training, Arduino UNO open source microcontroller At Meg 328P board was used. Resource Persons, Mr. Vinayak Nayak and Mr. Avinash Kambale of Physics/Electronics Department, have trained the students to program the Arduino

using C code and accessing the pins on the board via software to control the external devices. In addition, a hands-on training was given to the students on interfacing of LED and LED blinking, Buzzers, LCD, Stepper motor, Finger print sensor, Ultrasonic sensor and Global system for mobile communication.



Chief Guest of the valedictory function, Dr. (Smt) Jyothi S.Bali, Assistant Professor of Automation and Robotics Department of K.L.E. Technological University, Hubli, persuaded the students to develop logical thinking skills in programming to design electronic devices using Arduino. Dr. C. G. Patil, Co-Coordinator, IQAC, highlighted the importance of embedded system in daily life. All the staff members of the Department had participated in the function. Mr. M.I. Charanthimath welcomed the gathering, Kumari Deepa and Lakshmi invocated, Mr. Ranganath Yadav had proposed the vote of thanks. Kumari Navya and Sindhu had conducted the programme.