

Workshop Report



Name of the Activity: Two Days Workshop on 'Robotics'

Category of Activity: Awareness of Trends in Technology (Robotics)

Date, Time & Venue :

13th & 14th of September, 2022 (11.00 A.M-4.00 P.M)

Department of Physics, Room No.-214
Haldia Government College

Name of the Resource Person:

Shri Kousik Nanda, SACT
DEPARTMENT OF COMPUTER SCIENCE AND APPLICATION,
PK COLLEGE, CONTAI

No of Participants: 10

Brief Description of the Program:

Arduino is an open-source electronics platform based on easy-to-use hardware and software, making it an excellent tool for both beginners and professionals to build and prototype electronic devices.

During the Arduino workshop, participants learnt how to set up and use Arduino boards, write and upload code, and interface with various sensors, motors, and other electronic components. The workshop typically included both theoretical and practical sessions, with hands-on exercises and projects to reinforce the concepts learned. This workshop was designed for beginners with no to minimum programming experience.

Outcome:

The outcomes of a workshop on Arduino are the followings:

1. Understanding the basics of electronics: The Arduino workshop typically covered the fundamentals of electronics, such as circuits, components, and schematics. Participants learnt how to read and interpret circuit diagrams, identify electronic components, and understood how they work together.
2. Programming skills: Participants learnt how to write and upload code to an Arduino board, using the Arduino Integrated Development Environment (IDE). They learnt the syntax and structure of the Arduino programming language, as well as how to use libraries and functions to interact with sensors, motors, and other electronic components.
3. Hands-on experience: The workshop involved hands-on exercises and projects, where participants got to apply their newly acquired knowledge and skills. They learnt how to assemble circuits, solder components, and troubleshoot problems, while working on fun and engaging projects such as robots, LED displays, and sensors.

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