

## **TECHNICAL FORUM (Abhiyantran)**

**In association with**

**IIC (Institution's Innovation Council)**



### **Report on the event 'Hardware Model Design, Arduino Programming Competition and Smart Coder 2.19' held on 5<sup>th</sup> November and 6<sup>th</sup> October 2019**

The Technical Forum of B P Poddar Institute of Management & Technology, Abhiyantran organized an intra-college technical event 'Hardware Model Design, Arduino Programming Competition and Smart Coder 2.19' in association with IIC (Institution's Innovation Council) on 5<sup>th</sup> November and 6<sup>th</sup> October 2019 to provide a platform to explore students' technical knowledge. The competition had three sub-events: FORMA 2.16 (Hardware Model Design), JUNO 2.16 (Arduino Programming) and Smart Coder 2.19 (Coding competition).

The main objective of FORMA 2.16 was to encourage students to extend their knowledge to a professional level in electrical and electronic circuit designing and to nurture their creativity and innovation on applied engineering concepts as per with present day requirements. It was a one-day sub-event held on 5<sup>th</sup> November 2019. They needed to display a working model of their design supported with a power point presentation. Each group consisted of maximum four members. Twelve groups (43 students) participated in the competition. They had shared their innovative ideas by power point presentation and hardware model display. Some important designs in FORMA 2.19 were Manually Driven DC Generator, Wireless Power Transfer, Ultra Solar Power Design, Manual Robot and Safety Alarm. Sashi Raj, Sauvik Das, Kaushal Kishore and Prabhudeba Pati won the first prize for their project on 'Manually Driven DC Generator'. Dr. Ivy Majumdar, Head of ECE Department and Dr. Nandita Sanyal, Head of EE Department acted as Judge for FORMA 2.19.

The aim of the two-day sub-event JUNO 2.19 was to nurture the programming concepts of undergraduate students as nowadays it is mandatory for all students to know the basic programming both in assembly language and in C. In order to register for that sub-event, programming concepts of Arduino and basic knowledge of interfacing were required. Each group comprised two students. Participants had to cross successive levels of microcontroller programming. Finally they were provided with hardware controller and device to complete their tasks. Programs and their applications on serial transmission of data were the thrust area of the competition. Nine groups (18 participants) participated in JUNO 2.19. The group consisting of Debolina Sett and Debjyoti Roy won the first prize in that sub-event. Dr. Arijit Saha, Associate Professor of ECE Department and Dr. Bikromaditya Mondal, Associate Professor of CSE Department acted as Judge for JUNO 2.19.

The aim of the two-day sub-event Smart Coder 2.19 was to encourage the students in solving higher level problems using C, C++, Java and Python. More than 100 Students of different departments as well as from other institutes have participated in this competition. Participants got the opportunity to test and show their ability to analyze and solve the problems as per their knowledge. The group consisting of Subhajit Paul and Trishita Majumder won the first prize in this sub-event.

Ms. Susmita Dey (Asst. Prof., EE), Mr. Arindrajit Chaudhury (Asst. Prof., ECE), Mr. Panthadeb Saha (Asst. Prof., ECE), Mr. Subhasis Das (Asst. Prof., EE), Mr. Subhasis Mallick (Asst. Prof., CSE), Mr. Subhadip Chandra (Asst. Prof., CSE), Mr. Abhijit Bhattacharya (Asst. Prof., MCA), Mr. Debasish Sarma (STA, ECE), Mr. Ranjit Kumar Paul (SLA, EE) and Ms. Gitosree Khan (Cordinator, Technical Forum) and Mr. Surajit Mandal (Associate Professor, ECE) conducted the whole event. Regular classes were held as per schedule.

