



Skill Development Cell
Outreach & Dissemination Services Office
CSIR – Central Building Research Institute
Roorkee – 247667 (UK)



Hands-on Training on
‘IoT Implementation in Civil Engineering: Bridging the Gap’
August 10-11, 2023

Two days Hands-on Training on *‘IoT Implementation in Civil Engineering: Bridging the Gap’* was organized under the aegis of CSIR Integrated Skill Initiative during August 10-11, 2023. This comprehensive hands-on training was aimed at familiarizing the participants on latest knowledge & skills in the multidimensional era of IoT revolution through IoT Embedded Systems and Micro-Controllers, IoT Clouds, IoT Protocols and Communication, Microcontrollers and Programming, Home Automation and Sensors, Programming Techniques and Data Communication, Hands on using Temperature and Humidity Sensors, Smart Lighting System, Voltage and IR Sensors in Buildings, Real-time Gas Monitoring with MQ7 and ESP32 etc. for effective practices prevalent across the globe. This programme was attended by 27 working professionals/students across the country.

This Hands-on training was inaugurated by **Ar. S.K. Negi, Dr. S.K. Panigrahi, Dr. Achal Mittal**; Chief Scientists & **Dr. R. Dharmaraju**, Chief Scientist & Skill Nodal, CSIR-ISI. The event was coordinated by **Er. Chandrabhan Patel & Er. Kanti Solanki**, they welcomed the participants and other colleagues and briefed about the two days’ activities of the hands-on training. Subsequently, **Dr. R. Dharmaraju** emphasized on the importance of this training programme for better learning of the latest knowledge related to IoT Implementation in Civil Engineering. During inaugural, several Scientists & technical staff namely Dr. B.S. Rawat, Dr. Pradeep Chauhan, Er. Ravindra Bisht, Mr. Nadeem Ahmad, Er. Soju Alexander, Er. Saksham Bhardwaj & Er. Abhinav Tyagi etc. were also present.

A total of 10 lectures cum hands-on demonstration were presented to the participants by various CSIR-CBRI scientists and eminent field experts of IoT. The participants have been made to understand the advance tools & techniques such as MQ7 and ESP32 working & Programming for effective IoT Implementation in Civil Engineering through technical presentations, hands on practices & live computer demonstrations. In the end, participants have also given their feedback and expressed the usefulness of the present skill training to their professional commitments. The training was thus concluded with the distribution of certificates and other relevant training materials.

List of Participants

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Glimpses of the Training Programme



Inaugural Ceremony



Group Photograph



View of Participants



Technical Demonstration & Hands-on Practices



Valediction & Certificate Distribution