SAIL

PROFESSIONAL DEVELOPMENT PROGRAMME

ON

SMART MANUFACTURING INDUSTRIAL INFORMATICS AND INTERNET OF THINGS (IoT)

7th September to 12th September, 2022

ORGANISED BY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

AND

DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING

NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA

In Collaboration with

ROURKELA STEEL PLANT, ROURKELA

Special Thanks to CIET, NITR

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SCHEDULE

7th Sept

Session – I
(9:00 am – 11:00 am)

Concept of Smart Systems

Session – II
(11:00 am – 1:00 pm)

Smart Manufacturing Competencies In An Integrated Steel Plant Ecosystem

Session – III
(2:30 pm – 5:00 pm)

LAB 1

8th Sept

Session – I
(9:00 am – 11:00 am)

IoT: Architecture & Design

Session – II
(11:00 am – 1:00 pm)

Manufacturing Informatics

Session – III
(2:30 pm – 5:00 pm)

LAB 2

9th Sept

Session – I
(9:00 am – 11:00 am)

IoT Enabling technologies in smart systems

Session – II
(11:00 am – 1:00 pm)

Smart Micro-Manufacturing for Metal-Casting

Session – III
(2:30 pm – 5:00 pm)

LAB 3

10th Sept

Session – I
(9:00 am – 11:00 am)

IoT in 6G: Applications, Challenges, and Scope

Session – II
(11:00 am – 1:00 pm)

Additive Manufacturing

Session – III
(2:30 pm – 5:00 pm)

LAB 4

11th Sept

Session – I
(9:00 am – 11:00 am)

Addressing and identification in IoT Systems

Session – II
(11:00 am – 1:00 pm)

AI and Soft Computing

Session – III
(2:30 pm – 5:00 pm)

LAB 5

12th Sept

Session – I
(9:00 am – 11:00 am)

IoT Messaging Protocols and AI and Soft Computing

Session – II
(11:00 am – 1:00 pm)

Process Modeling for Steel Industry

Session – III
(2:30 pm – 5:00 pm)

LAB 6

DEPARTMENT OF METALLURGICAL AND MATERIALS ENGG.

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