RAJEEV INSTITUTE OF TECHNOLOGY
Plot # 1 (D), Growth Centre, Bangalore-Mangalore Bypass Road, HASSAN- 573 201, KARNATAKA
(Affiliated to VTU, Belagavi., Approved by AICTE, New Delhi., Recognized by Govt. of Karnataka)

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

A REPORT ON ONE DAY INDUSTRIAL VISIT

Place of Visit: Government Tool Room and Training Centre (G.T.T.C.), Hassan

Date: 13th December 2023 (Wednesday)

Students Participated : III Year (5th Semester) EEE Students

Students of 5th Semester along with Faculties, Mr. Jayaram M.V. and Mrs. Rashmi N., visited Government Tool Room and Training Centre (G.T.T.C.), Hassan.

This visit was mainly focused on to understand the procedures involved in the field of Automation and Internet of Things. Students were split into Two groups. Ms. Pooja explained about the facilities available inside the centre, Programmable logic Controllers (P.L.C.) and Automation. The creation and application of technologies to produce and deliver goods and services with minimal human intervention was explained clearly. The implementation of automation technologies, techniques and processes improve the efficiency, reliability, and/or sped of many tasks that were previously performed by humans. Ms. Chaitra explained about the Internet of Things and its real time applications. A network of inter related devices that connect and exchange data with other IoT devices and cloud was explained in detail. IoT devices are typically embedded with technology such as sensors and software and can include mechanical and digit machines and consumer objects.

Organisation Profile- Government Tool Room and Training Centre (G.T.T.C.), Hassan

Government Tool Room & Training Centre, Hassan was started in the year 1994 with the assistance of the Government of Karnataka. GT & TC main aim for supporting small-scale industries in the field of consultancy, design, production, and training. GT& TC is also committed to achieving customer satisfaction in quality and delivery of tool engineering services and precision machining.

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Govt. Tool Room & Training Centre is a leading Tool Room & Training Centre in India. Where the major activity is promotion of purposeful technical education for the youth in Karnataka. It trains personnel for tool room at all levels, from tool room machinist to tool Engineers. Apart from this it offers solutions for Toolings, product development and has state of the art component manufacturing facilities. GT&TC has also embarked upon development of components and systems for various R & D organizations with a view to foster self-Reliance And Technical Up Gradation.

Objectives of Industrial Visit

1. To know the fundamental of SCADA and PLCs.
2. To learn the system which is used to control and monitor the process of automation.
3. To understand the basics of Internet of Things (IOT) and its applications.
4. To learn throughput or overhead of the network nodes.

Outcome of the Industrial Visit:

As per the university curriculum, subject related to PLCs /Industrial automation was framed and included. For better practical understanding of Industrial automation and Internet of Things in depth this field exposure visit is arranged and completed to fill curriculum gap between Institution and Industry.

At the end of the Industrial Visit student will be able to learn the following concepts:

- The working principle of automation and its advantages as like Savings on cost of labour, energy savings...etc.
- The work flow of the process by reducing cost, time, waste...etc. using Industrial automation.
- The telemetry from the connected sensors, devices and equipment for real time tracking, monitoring, management and remote control.

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Third Year (5th Semester) students visited GTTC Campus with department faculties.



Third year (5th Semester) students inside GTTC campus with faculties.

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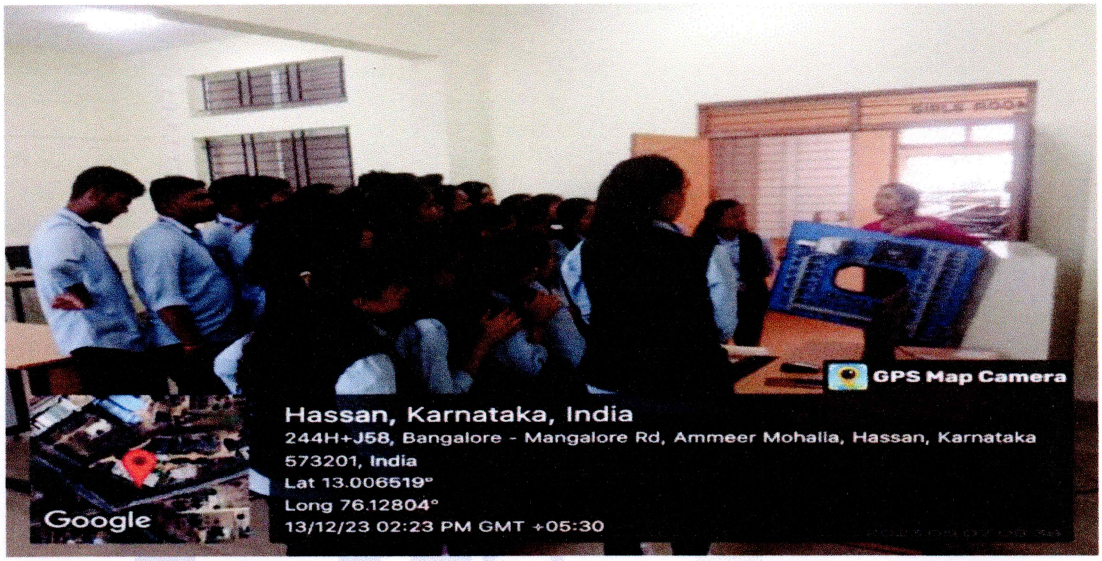
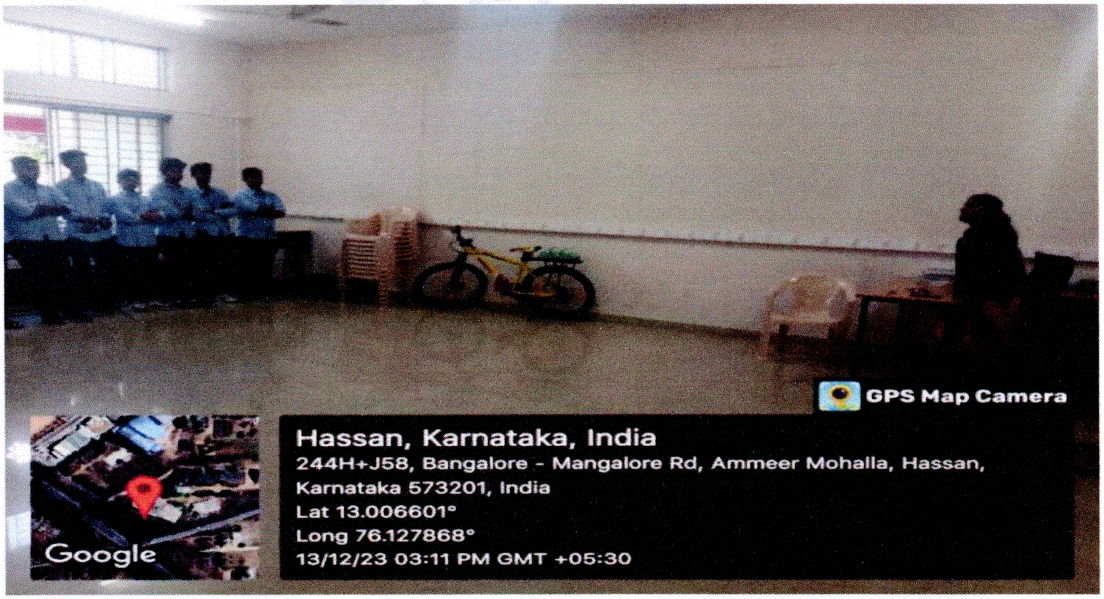


Ms. Pooja ,Lecturer ,GTTC has explained about the facilities available inside the centre, Programmable logic Controllers (P.L.C.) and Automation.



Ms. Chaitra, Lecturer , GTTC has explained about the Internet of Things and its real time.

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Industrial Visit Banner

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