SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ECE



ONEDAY SEMINAR

EMBEDDED SYSTEMS IN INDUSTRY AUTOMATION

DATE: 13/06/2021

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Department of ECE

CIRCULAR

05.06.2021

One day workshop on "Embedded Systems in Industry Automation" is scheduled to be conducted on 13.06.2021. This seminar makes the students familiar with the basic concepts and terminology of the embedded systems design flow and provides basic knowledge and job opportunity in embedded automotive. Henceforth, students are requested to attend this workshop and get benefitted.

Resource Person:

Mr.N.Gopinath
Assistant Manager
India Nippon Electricals Ltd
Hosur.

July VP Golf

Faculty Coordinators

Dr.K.Vinoth Kumar, AsP / ECE Mr.V.P.Gokulan, AP/ECE S. Centhini.

HoD / ECE

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One day seminar on "Embedded Systems in Industry Automation".

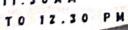
resource person

Mr.N.GOPINATH

Assistant Manager, Indian Nippon Electricals Ltd,

Hosur.

DATE: 13/06/ZI DAY: SUNDAY MODE: ONLINE TIME: 11.30AM





Faculty coordinators

Dr.S.KARTHIGAI LAKSHMI ,Professor

Hod/Ece

Principal

Dr.D.SENTHIL KUMARAN

Dr.K.VINOTH KUMAR,ASP/ECE Mr.V.P.GOKULAN ,AP/ECE

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TOPICS TO BE DISCUSSED

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INTRODUCTION OF EMBEDUED SYSTEMS

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CIRCUITS USED IN APPLICATIONS

- When the embedded system is design there are several hardware components that can be used for design purposes.
- The selection of the circuit is completely dependent on the application used for the embedded sestions.
- For example, in temperature sensor applications there is a requirement of temperature sensors for measuring the temperature.

PRODUCT DEVELOPMENT LIFE CYCLE

- The product development the cycle is the set of commonly converted stopes in the life of converted products.
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TIMERS & COUNTERS

I maryamer Dis.

- In some of the applications there is always a requirement of delay that needed to provide in the application.
- For example, in LED display applications there is a requirement of some delay so that LEO can be continuing blink.
- The programming can be done in such a way so that delay can be generating the embedded sustem.
- The delay time span can be decided by using the crystal oscillator and system frequency so that delay can be generated as per user requirement.

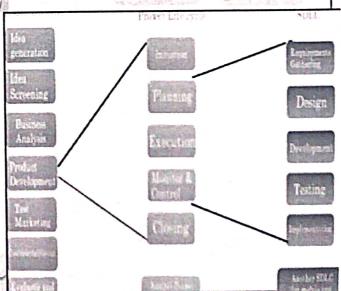
APPLICATIONS OF EMSEDOED SYSTEMS

The exhabled system can be used in various sectors like exhibites, agricultural devices, medical devices crid outstrainter industry, and many more sectors.



ASSEMBLER:

- The assembler is used when the programming language used for designing the application is assembly language.
- The assembly language program is then converted into the HEA code so that it can be further processed
- And after writing the code the programmer is used for writing the program in the chip.



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