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## Registrations LIVE on Swayam for Embedded System Design using MSP430T MCU

2 messages

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TI-Coordinator <ti-india-dc@list.ti.com>  
To: TI-Coordinator <ti-india-dc@list.ti.com>

5 January 2021 at 12:51

Dear Students,

We are excited to inform you that that the NPTEL, IIT Madras & AICTE in association with Texas Instruments (TI) invite you to join a FREE online course on "Embedded System Design" from Netaji Subhas University of Technology (NSUT, Delhi) and IIT Jammu. This Course is now re-launched **in the forthcoming Jan 2021 semester too**, owing to its wide acceptance. This exciting course coupled with practical hardware designing By Prof. Dhananjay V. Gadre (NSUT, Delhi) and Prof. Badri Subudhi (IIT Jammu) and is available on Government of India's Swayam platform and is offered by NPTEL.

Link to register in the course: [https://onlinecourses.nptel.ac.in/noc21\\_ee58/preview](https://onlinecourses.nptel.ac.in/noc21_ee58/preview)

### **Rewards for Students:**

- Stand a chance to earn 3+ Course Credits as per the NPTEL & AICTE Guidelines and University/College Policy
- Stand a chance to earn a **E Certificate from AICTE & TI** upon passing the Course examination
- Stand a chance to be featured on NPTEL stars as per the guidelines <https://nptel.ac.in/nptelStars/index.html>

### **Recognition for Faculty:**

- Earn a **Recognition E-Certificate from TI and AICTE** on getting 50+ students with average assignment score of 15+
- Stand a chance to earn recognition from NPTEL as per the guidelines <https://drive.google.com/file/d/19GQZq8hO8C3Bd6R1F2Bsic3tpCa8TBO7/view>

### **The 12 week course will cover the following:**

- Introduction to Embedded Systems and Computer Systems Terminology
- Microcontroller Based Embedded System Design
- Design of Power Supply for Embedded Systems. Linear Regulator Topologies
- Introduction to MSP430™ Microcontroller & MSP430™ CPU Architecture
- Fundamentals of Physical Interfacing

- Advanced Physical Interfacing
- Programming the MSP430™. Basics of version control system - GIT
- MSP430™ Clock and Reset System, Clock sources and distribution
- Interfacing Seven Segment Displays and Liquid Crystal Displays with MSP430™
- Generating Pulse Width Modulation (PWM) using Timer Capture Mode
- Timer Capture Modes. Measuring frequency and time period of external signals and events
- Circuit Prototyping techniques.

**PREREQUISITES:** Undergraduate students in engineering and science with understanding of basic electronic components and circuits, digital electronics and C programming

## Register Today

Regards,

TI Coordinator

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**Dr. Abhay Kumar** <dr.abhaykumar@gmail.com>

5 January 2021 at 13:11

To: m-tech-es-2020-22-soex-davv-indore@googlegroups.com, mtech\_embeddedsystem\_19-21@googlegroups.com

Please do register for the course and participate seriously.

[Quoted text hidden]

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