**REQUISITION FOR COURSE RECORDING**

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| **NITM-MOOCs Proposal Submission** | | | | | | | | | |
| Course Title | : |  | | | | | | | |
| Discipline | : | Computer Science and Engineering/ Electrical Engineering | | | | | | | |
| Duration of the course | : | Module (5 hrs / 6 hrs) Full Course (20 hrs / 30 hrs) | | | | | | | |
| Is it a Core course or Elective Course | : | Core/Elective | | | | | | | |
| Which degree would it apply to | : | √ | BE/BTech |  | ME/MTech |  | MS |  | B.Sc. |
|  | M.Sc. |  | PhD |  | Others |  |  |
| Intended Audience (Students  belonging to which discipline can take this course) | : | Computer Science and Engineering / Electronics and Communication Engineering / Electrical Engineering | | | | | | | |
| Is it a UG course or PG course | : | UG /PG | | | | | | | |
| Pre-requisites (if any other courses should be done before this can be done | : | Basic concepts in digital circuits and microprocessor | | | | | | | |
| Industry support – List of companies that will recognize this online course | : | Intel, Texas Instruments, Cadence, Qualcomm, Samsung, ARM, TCS, HP | | | | | | | |
| List of reference materials, books etc. | : | 1. Marilyn Wolf, “*Computers as Components: Principles of Embedded Computing Systems Design*”, Elsevier, 3rd Edition, 2013. 2. Ramesh Gaonkar, “*Fundamentals of Microcontrollers and Application in Embedded Systems*”, Penram International Publishing (India) Pvt. Ltd., 2010. | | | | | | | |
| Write few lines about your course | : |  | | | | | | | |

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| **INSTRUCTOR(S) DETAILS** | | | | | | | |
| **Instructor 1** | | | | | | Photo | |
|  | Name | | | : |  |
|  | Department | | | : | Computer Science and Engineering |
|  | Institute | | | : |  |
|  | Email ID | | | : |  |
|  | Mobile Number | | | : |  | | |
|  | Website link | | | : |  | | |
|  | Write a few lines about yourself | | | : |  | | |
| **Course Plan Details** | | | | | | | |
| **Weeks** | | | **LECTURE NAMES** | | | |  |
| Week 1 | | : | Introduction to Embedded Systems and Microcontrollers | | | |  |
| Week 2 | | : | Instruction Set Architecture of ARM Microcontroller | | | |  |
| Week 3 | | : | Sensors, Actuators and Their Interfacing | | | |  |
| Week 4 | | : | Introduction to Microcontroller Boards and Embedded Programming Platforms | | | |  |
| Week 5 | | : | Hands-on and Demonstration I: Temperature sensing unit, Light sensing unit, Sound sensing unit | | | |  |
| **MODULE** | | **MODULE NAMES** | | | | |  |
| Module  Lecture 1 | | : |  | | | |  |
| Module  Lecture 2 | | : |  | | | |  |
| Module  Lecture 3 | | : |  | | | |  |
| Module  Lecture 4 | |  |  | | | |  |
| Module  Lecture 5 | |  |  | | | |  |

* Possible Dates for Recording:

|  |  |
| --- | --- |
| **DATE** | **TIME** |
| 29th January 2019 | 4 Pm to 5 PM |
| 30th January 2019 | 10AM to 4PM |

* Please note all fields must be filled before submission of hard copy to the CTEL office