**REQUISITION FOR COURSE RECORDING**

|  |
| --- |
| **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 | : |  |

|  |
| --- |
| **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** |  |
| ModuleLecture 1 | : |  |  |
| ModuleLecture 2 | : |  |  |
| ModuleLecture 3 | : |  |  |
| ModuleLecture 4 |  |  |  |
| ModuleLecture 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