



राष्ट्रीय प्रौद्योगिकी संस्थान दुर्गापुर
Department of Electronics and Communication Engineering
National Institute of Technology Durgapur
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Ref.:

TENDER NO.: NITD/ECE-MPMC-Lab/2020/1;

Dated - 28/02/2020

Name of the work: To supply, install and commissioning of “**Microprocessor and Microcontroller Kits**” at Electronics & Communication Engineering Department, NIT Durgapur.

With reference to the above mentioned tender invitation notice, along with all the 7 items as mentioned in the tender document one additional item as item no. 8 is added as detailed is specified below. The bidders are requested to give their bid by including all eight items together.

Item	Quantity	Specifications
8. Classroom/ laboratory Teaching and Learning Simulation Software	1	<p><u>The features of the simulation software should be as follows</u> The content should be designed by using platforms like Visual Basic, Dot Net, Flash etc and should be useful to understand the basic concepts of various technologies in electronics including advance technologies, the software should comprises simulations, animations, videos, graphs, charts, along with mandatory rich content and theory to understand fundamental concepts, interactive learning objects, FAQ, MCQ etc of below mentioned subjects with following topics:</p> <p>Embedded System: Module on Embedded system should cover following topics: Basics: Definition, Characteristics, Architecture, Applications, Categories: Stand Alone Embedded System, Real-Time Embedded System, Network Information Appliances, Mobile Devices; Digital Primer and Components: Numbering and Coding System, Digital Gates, Basic Components-Transistor, Diode, Resistance, Capacitance, Seven Segment Display, Power Supply. 8051 Microcontroller: Microcontroller, Architecture, Features, 8051Pinout and Details, Registers and SFR, Memory Map, Instruction Set, Addressing Mode, Timer and Counters, Interrupts, Serial Communication. 8051 Peripheral Interfacing: Switch Interface, Seven Segment Display Interface, LED interface, LCD Interface.</p>

All other terms and conditions regarding the tender documents are remained same as specified in the tender document.

Sd/-

Dr. Sujit Kumar Mandal

Assistant Professor

Dept. of ECE

NIT Durgapur