



College of Engineering, Pune

Wellesley Road, Shivajinagar, Pune 411 005 Maharashtra, India.

Details of Shopping Items to be purchased under TEQIP-III

Sr. no.	PMSS Package Name & Code	Item Name (Quantity)	Dept	Brief Specifications	Dept Coordinator
1	INSTRU-3a (TEQIP-III/MH/coep/49)	COMSOL Multi physics, MEMS module (1)	Instrumentation & control	Analyze Microelectromechanical Systems - Analyze Microelectromechanical Systems , thin-film gas damping, anisotropic loss-factors for solid and piezo-materials, anchor damping, and thermo elastic damping, Stationary and transient domains, as well as fully-coupled Eigen frequency, parametric, quasi-static, and frequency response analyses	Dr.P.D.Shendge 020 25507174
2	INSTRU-4a (TEQIP-III/MH/coep/50)	BLDC Motor Control Set-up (1)	Instrumentation & control	24 V, 200W, 2500 rpm BLDC Motor, with high resolution encoder having more than 1024 pulses per revolution.Appropriate gear Box and ball screw Rotary to linear motion arrangement with high accuracy in mm for the above motor. Necessary driver card to drive BLDC motor with PWM as well as 0-5V DC input for control. Provision for Position control with load on motor variation arrangement. Provision for speed control with variable load arrangement. Set-up should be seamlessly integrate with microcontroller as well as MATLAB to provide necessary control signal and HIL co-simulation.	Dr.P.D.Shendge 020 25507174