

**Pune Institute of Computer Technology, Pune**  
**Department of Electronics and Telecommunication Engineering**  
**In house Development**

These kits are designed and developed by our faculty in the labs for smooth conduction of various lab sessions.

Sr. No.	Name of the faculty	Experimental boards Development	Available in	Detail description
<b>Academic Year 2020 - 21</b>				
1	Mr. Zakee Ahmed	Mechatronics Virtual kits	Software	To implement Open & Free virtual Lab Experiments that can be used by students in both Online & Offline Mode to perform the lab Experiments
		1. Servomotor Position Control		
		2. RPM Measurement		
		3. Level Measurement		
2	Mr. Zakee Ahmed	4. Weight Measurement	Software	Virtual lab Experiments requires minimal software installation & with easy set of Instructions any one can perform and understand Lab Experiments
		IoT Virtual kits		
		1. Cloud Ready Temperature Sensing System with Arduino and esp8266- Simulation Model		
		2. Cloud Ready Temperature Monitoring- Client Side Application		
<b>Academic Year 2017 - 18</b>				
1	Mr. R. J. Sutar	SSB Modulation and Demodulation Experimental Board	Hardware	Additional kits for SPPU Practical Experiments
2	Prof. Dr. G. S. Mundada Mr. Z. Ahmed Mr. G. L. Kirwale	Mechatronics Lab Experimental Kits	Hardware	This experiments are require as per SPPU List of Experiments
		1. Servo Mechanism		
		2. Level Measurement		
		3. Flow Measurement		
		4. Weight Measurement		
		5. Velocity and Position Measurement		
6. DAQ implementation				

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3	Ms. S. M. Hosamani	Various Flex of 1)Color code of Resistor 2)Types of Resistors 3)Types of Capacitor 4)Types of Diode 5)Types of Transistor and Power devises 7)Types of Switches  Boards : Types of Resistors	Charts	Display Charts or Boards will help to improve understanding of different Electronic Components, Symbol & its Applications
4	Mr. Dnyaneshwar M. Mankar	Digital Electronics Trainer	Hardware	In House development of Various Experimental Boards as per SPPU  Short Circuit Buzzer / Protection Astable Clock Signal Monostable Clock Signal
	Mr. Avinash B. Ambhore			
	Mr. Milind V. Khile			
	Mr. Sanjay M. Shinde			
	Mr. Laxmikant M. Gavhane			
<b>Academic Year 2016 - 17</b>				
1	Mrs. Amruta Dixit ,	Digital IC Tester (16 Pin)	Hardware	Can test ICs from the 74XX series
	Mrs. Aditi Prabhune			
	Mr. Laxam Pawal			

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2	Mr. Rishikesh. J. Sutar	Pulse Amplitude Modulator/ Demodulator Kit	Hardware	On-board message signal with variable Amp/Freq.
				On-board gating pulse signal with variabl Freq./pulse width
				Types of sampling processes: 1. Natural sampling
				Sample and Hold
				Flattop sampling
				Number of test point to study Sampling and reconstruction
<b>Academic Year 2015 - 16</b>				
1	Mr. Narayan P. Pawar	PIC Microcontroller Development Board	Hardware	Project based learning using PIC microcontroller
	Mr. S. S. Dudam			
	Mr. Dnyaneshwar M. Mankar			
2	Mr. Rishikesh. J. Sutar	Amplitude modulator and Demodulator Kit	Hardware	Amplitude modulation and Demodulation concept understanding
<b>Academic Year 2014 - 15</b>				
1	Mr. A. S. Bhosle	Basic Electronics Experimental Broads	Hardware	Voltage regulator, RC- Coupled Amplifier, IC555 Astable multivibrator, Operational Amplifiers
		Horn Antenna trainer kit for		Understanding of horn

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2	Mr. Sandeep Gaikwad	UG and PG students	Hardware	antenna design parameters is possible with this kit.
<b>Academic Year 2013 - 14</b>				
1	Mr. Vaibhav B. Vaijapurkar	Bit Flash ADC and R-2R Ladder DAC.	Hardware	
		Slotted disk technique for RPM measurement.		
		Sample and Hold circuit.		
<b>Academic Year 2012 - 13</b>				
1	Mr. Lalit Patil	Digital Electronics	Hardware	In House development of Various Experimental Boards as per SPPU
2	Mr. Lalit Patil	Power electronics	Hardware	In House development of Various Experimental Boards as per SPPU
3	Mr. Lalit Patil	Network Theory	Hardware	In House development of Various Experimental Boards as per SPPU
4	Mr. Lalit Patil	Analog Electronics	Hardware	In House development of Various Experimental Boards as per SPPU
5	Mr. S. S. Narkhede	Digital Electronics	Hardware	In House development of Various Experimental Boards as per SPPU
6	Mr. S. S. Narkhede	Analog Electronics	Hardware	In House development of Various Experimental Boards as per SPPU