

S.S.B.N. DEGREE COLLEGE
(AUTONOMOUS)
ANANTAPURAMU – 515 001

**DEPARTMENT
OF
INDUSTRIAL ELECTRONICS**



DEPARTMENTAL PROFILE

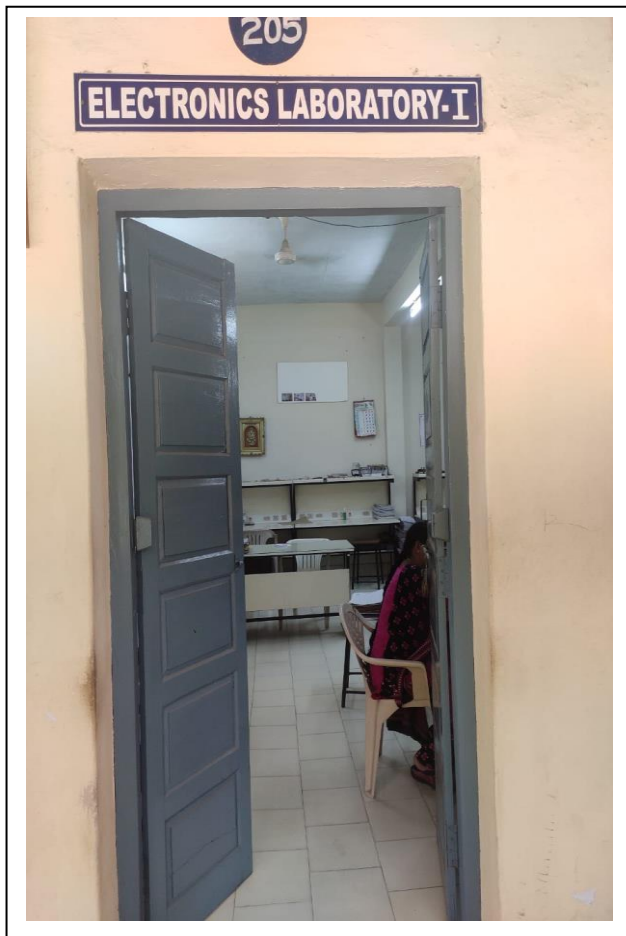
Infrastructure Facilities :

The Department consists of five well established laboratories with advanced equipment with the following dimensions.

- **Laboratories : 5** (Each of 30x20 Sq.Ft.)
- **Staff Room : 1** (20x12 Sq.Ft.)
- **Research Centre : 1** (25x12 Sq.Ft.)

LABORATORY 1 :

The following images shows the inner and outer view of lab-1. This lab is mainly used for first and second year students. This lab is equipped with **Analog devices**. In this lab maximum of 25 students can perform practicals at a time.



EQUIPMENT AVAILABLE IN THE LABORATORY-1

S.No.	Name of the Equipment	Quantity available	Cost in Rupees
1	Dual trace Oscilloscopes (CRO) 25 MHz	4	17,000=00 (each)
2	Function Generators	6	4000=00 (each)
3	Dual power supplies	10	1,250=00 (each)
4	Regulated Power supplies	6	850=00 (each)
5	Digital Multimeters	8	1,850=00 (each)
6	Resistance Boxes	15	700=00 (each)
7	Capacitance Boxes	10	1,000=00 (each)
8	Transistorized Power Supply	5	3,400=00 (each)
9	Personal Computer (Dual Core)	1	25,000=00
10	Printer	1	17,000=00

LABORATORY – 2:

The following images shows the inner and outer view of lab-2. This lab is mainly used for first and second year students. This lab is equipped with **Basic electronic devices**. In this lab maximum of 25 students can perform practicals at a time.



EQUIPMENT AVAILABLE IN THE LABORATORY-2:

S.No.	Name of the Equipment	Quantity available	Cost in Rupees
1	Dual trace Oscilloscopes (CRO) 25 MHz	4	17,000=00 (each)
2	Function Generators	6	4000=00 (each)
3	Dual power supplies	6	1,250=00 (each)
4	Regulated Power supply	8	850=00 (each)
5	Digital Multimeters	6	1,850=00 (each)
6	Resistance Boxes	10	700=00 (each)
7	Capacitance Boxes	8	1,000=00 (each)
8	Desktop Computer	1	30,000=00 (each)
9	Printer	1	17,000=00
10	SCR Characteristics	4	1,800-00(each)
11	UJT Characteristics Kits	4	1,800-00(each)
12	BJT Characteristics	4	6,200=00 (Each)
13	FET Characteristics	4	5,600=00 (Each)
14	Bread Board trainers	4	4,500-00(each)
15	LCR Meter	1	8,000-00 (Each)

LABORATORY – 3:

The following images shows the inner and outer view of lab-3 and which is a **Computer aided electronics lab**. This lab is mainly used for final year students. This lab is equipped with **VLSI and EMBEDDED trainer kits with the interfacing of PCs**. In this lab maximum of 30 students can perform practicals at a time.

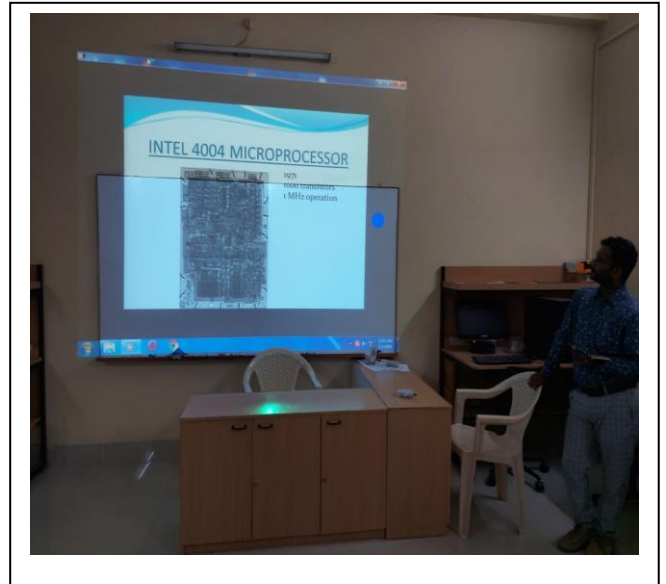


EQUIPMENT AVAILABLE IN THE LABORATORY – 3:

S.No.	Name of the Equipment	Quantity available	Cost in Rupees
1	Dual trace Oscilloscopes (CRO) 25 MHz	2	21,000=00 (each)
2	Desktop Computers	30	30,000=00 (each)
3	DSP(TI-TMS320C54XX) Processor Development Kits	6	12,300=00 (each)
4	VLSI Trainers (FPGA)	6	17,500=00 (each)
5	Embedded Trainers	6	16,500=00(each)
6	ARM 7 Trainer(Development Kits)	6	15000=00
7	Parallel port Programmers	4	2,000=00
8	Philips Flash Microcontrollers	4	10,200=00
9	PIC Microcontrollers	1	7,400=00
10	Printer	1	15,000=00
11	LPC2378 Development Kits	4	21,000-00
12	FPGA Trainer Kits	4	20,200-00
13	ARM 7 Development board (ALS-SDA-ARM-03-2148-plus)	2	14,500-00 (each)
14	ARM 7 Development board (ALS-SDA-ARM-7-05)	4	9,100-00 (each)
15	DSP Trainers (TMS320VC5416 based)	4	21,530-00 (each)
16	Field Programmable Gate Array Trainers	6	8760-00 (each)
17	MATLAB Software (Licensed)	1	95,000-00

LABORATORY – 4:

The following images shows the inner and outer view of lab-4, which contains **LCD projector** so there is a provision of taking **digital classes** by the teachers. This lab is mainly used for final year students. This lab is equipped with **DSP and FOC trainer kits**. In this lab maximum of 30 students can perform practicals at a time.

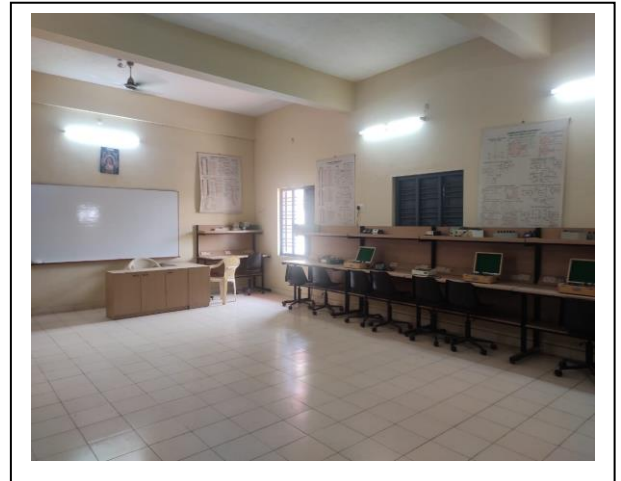


EQUIPMENT AVAILABLE IN THE LABORATORY - 4:

S.No.	Name of the Equipment	Quantity available	Cost in Rupees
1	Dual trace Oscilloscopes (CRO) 25 MHz	4	14,000=00 (each)
2	Function Generators	4	4000=00 (each)
3	Regulated Power supply	6	850=00 (each)
4	Digital Multimeters	4	1,500=00 (each)
5	Resistance Boxes	6	700=00 (each)
6	Capacitance Boxes	6	1,000=00 (each)
7	Desktop Computer	1	30,000=00 (each)
8	FOC Trainer kits (Analog & Digital Links)	6	7,200=00 (each)
9	Delta modulation Kits	4	2,200=00 (each)
10	TDM Demultiplexer	4	1,800=00 (each)
11	Fiber optic digital link	2	14,500-00 (each)
12	Fiber optic analog link	2	14,500-00 (each)
13	Function Generators (Hi-Q)Digital	6	7,500-00 (each)
14	AM Modulator and Demodulators	4	1,200-00(each)
15	FM Modulator and Demodulators	4	1,200-00(each)
16	Phased lock loop trainer	4	1,200-00(each)
17	(RPS)Power supply (0-12V)	6	950-00(each)
18	Digital function generators	4	12,500-00 (each)
19	Digital CROs	4	18,000-00 (each)
20	Digital Multimeters	12	2,100-00 (each)

LABORATORY – 5:

The following images shows the inner and outer view of lab-5. This lab is mainly used for second and final year students. This lab is equipped with **Microprocessor and Microcontroller kits**. In this lab maximum of 30 students can perform practicals at a time.



EQUIPMENT AVAILABLE IN THE LABORATORY -5 :

S.No.	Name of the Equipment	Quantity available	Cost in Rupees
1	Dual trace Oscilloscopes (CRO) 25 MHz	3	16,000=00 (each)
2	Microprocessor Kits 8085 (ESA)	10	3,375=00 (each)
3	Microcontrollers Development Kits (ALS& Vi Microsystems)	22	7,300=00 (each)
4	Digital Multimeters	6	1,400=00 (each)
5	8086 microprocessors (ESA)	6	6,900=00 (each)
6	Digital LED kits	2	3,500=00(Each)
7	Digital Logic Gates	2	2,500=00(Each)

FACULTY ROOM :

