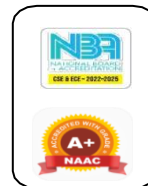




# MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEGE

( AUTONOMOUS )

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Pulladigunta (Vil), Vatticherukuru (Md), Prathipadu Road, Guntur – 522 017 A.P.



ECE Lab 1 – Devices & Circuits Laboratory :

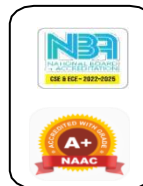
|                          |                      |                    |                                                      |          |  |
|--------------------------|----------------------|--------------------|------------------------------------------------------|----------|--|
| Name of the Laboratory : | EDC , ECA & AICA Lab |                    |                                                      |          |  |
| Room No:                 | 329                  |                    |                                                      |          |  |
| Laboratory In-charge:    | M. Chandana          |                    |                                                      |          |  |
| Laboratory Technician :  | P.Madhavi            |                    |                                                      |          |  |
| Area of the Laboratory:  | 77 sq.m              |                    |                                                      |          |  |
| Major Equipment :        | S.No                 | Equipment Name     | Description                                          | Quantity |  |
|                          | 1                    | Stabilizer         | 5KVA, 1Φ Servo Controlled Voltage Stabilizer         | 1        |  |
|                          | 2                    | CRO                |                                                      | 27       |  |
|                          | 3                    | RPS                |                                                      | 26       |  |
|                          | 4                    | Function Generator |                                                      | 22       |  |
|                          | 5                    | ECA Kits           | 1. Voltage Series Amplifier                          | 2        |  |
|                          |                      |                    | 2. Current shunt Amplifier                           | 2        |  |
|                          |                      |                    | 3. RC Phase shift Oscillator                         | 1        |  |
|                          |                      |                    | 4. Colpitts Oscillator                               | 1        |  |
|                          |                      |                    | 5. Hartley Oscillator                                | 1        |  |
|                          |                      |                    | 6. Two-Stage RC coupled Amplifier                    | 1        |  |
|                          |                      |                    | 7. Darlington Pair Amplifier                         | 2        |  |
|                          |                      |                    | 8. Transformer coupled Class A Power Amplifier       | 1        |  |
|                          |                      |                    | 9. Class B Push pull Power Amplifier                 | 2        |  |
|                          |                      |                    | 10. Complementary Symmetry Push-pull power Amplifier | 1        |  |
|                          |                      |                    | 11. RF Tuned Voltage Amplifier                       | 1        |  |
| No.of Panels :           | 11                   |                    |                                                      |          |  |
| Students Occupancy       | 33                   |                    |                                                      |          |  |



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per slot:



Photo :



ECE Lab 2 – Communications Laboratory :

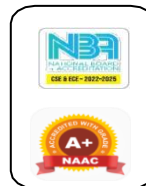
|                          |                        |
|--------------------------|------------------------|
| Name of the Laboratory : | AC-DC & STLD Lab       |
| Room No :                | 330                    |
| Laboratory In-charge:    | N.N. Raja Kumari       |
| Laboratory Technician :  | K.Lakshmi Tirupathamma |



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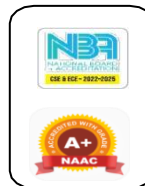
|                         |         |                              |                                              |          |
|-------------------------|---------|------------------------------|----------------------------------------------|----------|
| Area of the Laboratory: | 77 sq.m |                              |                                              |          |
| Major Equipment :       | S.No    | Equipment Name               | Description                                  | Quantity |
|                         | 1       | Stabilizer                   | 5KVA, 1Φ Servo Controlled Voltage Stabilizer | 1        |
|                         | 2       | CRO                          |                                              | 6        |
|                         | 3       | RPS                          |                                              | 9        |
|                         | 4       | Function Generator           |                                              | 15       |
|                         | 5       | Digital Storage Oscilloscope |                                              | 19       |
|                         | 6       | Linear IC Trainer Kits       |                                              | 15       |
|                         | 5       | AC Kits                      | 1. Amplitude Modulation Demodulation         | 2        |
|                         |         |                              | 2. Balanced Modulator                        | 2        |
|                         |         |                              | 3. Diode Detector                            | 2        |
|                         |         |                              | 4. Pre-emphasis & De-Emphasis                | 1        |
|                         |         |                              | 5. Pulse Width Modulation                    | 2        |
|                         |         |                              | 6. Pulse Amplitude Modulation                | 2        |
|                         |         |                              | 7. Pulse Position Modulation                 | 2        |
|                         |         |                              | 8. Amplitude Gain Control                    | 1        |
|                         |         |                              | 9. Analog Sampling Theorem                   | 2        |
|                         |         |                              | 10. Phase Locked Loop                        | 2        |
|                         |         |                              | 11. AM/ FM Radio Receiver                    | 1        |
|                         | 6       | DC Kits                      | 1. Time Division Multiplexing                | 2        |
|                         |         |                              | 2. Phase Shift Keying                        | 3        |
|                         |         |                              | 3. Differential Phase Shift Keying           | 3        |
|                         |         |                              | 4. Pulse Code Modulation                     | 3        |
|                         | 7       | STLD                         | 1. 4 variable Logic Function 8x1 Multiplexer | 2        |
|                         |         |                              | 2. BCD Adder                                 | 2        |



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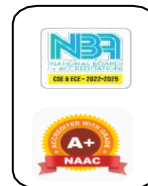
|                              |                                                                                      |  |                                          |   |
|------------------------------|--------------------------------------------------------------------------------------|--|------------------------------------------|---|
|                              |                                                                                      |  | 3. 3x8 Decoder                           | 1 |
|                              |                                                                                      |  | 4. Jhonson counter using D & JK flipflop | 2 |
|                              |                                                                                      |  | 5. Ring Counter using T flipflop         | 2 |
|                              |                                                                                      |  | 6. Synchronous counter using T-flipflop  |   |
| No.of Panels :               | 11                                                                                   |  |                                          |   |
| Students Occupancy per slot: | 33                                                                                   |  |                                          |   |
| Photo :                      |   |  |                                          |   |
|                              |  |  |                                          |   |



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ECE Lab 3 – Advanced Communications Lab :

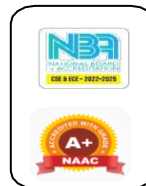
|                          |                             |                        |                                                                 |          |
|--------------------------|-----------------------------|------------------------|-----------------------------------------------------------------|----------|
| Name of the Laboratory : | Advanced Communications Lab |                        |                                                                 |          |
| Room No :                | 331                         |                        |                                                                 |          |
| Laboratory In-charge:    | K. Sarada                   |                        |                                                                 |          |
| Laboratory Technician :  | T. Sri Lakshmi              |                        |                                                                 |          |
| Area of the Laboratory:  | 77 sq.m                     |                        |                                                                 |          |
| Major Equipment :        | S.No                        | Equipment Name         | Description                                                     | Quantity |
|                          | 1                           | Stabilizer             | 5KVA, 1 $\Phi$ Servo Controlled Voltage Stabilizer              | 1        |
|                          | 2                           | CRO                    |                                                                 | 12       |
|                          | 3                           | RPS                    |                                                                 | 11       |
|                          | 4                           | Function Generator     |                                                                 | 11       |
|                          | 5                           | Microwave              | 1. Gunn Diode Benches                                           | 2        |
|                          |                             |                        | 2. Microwave Bench                                              | 2        |
|                          |                             |                        | 3. Radiation Pattern Measurement with turn table, horn antennas | 1        |
|                          |                             |                        | 4. Optical Fiber communication trainer kit                      | 2        |
|                          | 6                           | MPMC                   | 1. 8086 Microprocessor Kits                                     | 30       |
|                          |                             |                        | 2. 8051 Microcontroller Kits                                    | 15       |
|                          | 7                           | IoT Development Boards |                                                                 | 3        |
|                          | 8                           | DSP Hardware Kits      |                                                                 | 6        |
|                          | 9                           | NA Kits                | 1. Thevenin's & Norton's Theorem                                | 2        |
|                          |                             |                        | 2. Superposition & Maximum power transfer Theorem               | 2        |
|                          |                             |                        | 3. H-Parameters                                                 | 2        |
|                          |                             |                        | 4. Two-Port Network                                             | 1        |
|                          |                             |                        | 5. Compensation Theorem                                         | 1        |
|                          |                             |                        | 6. Millman's Theorem                                            | 1        |
|                          |                             |                        | 7. Locus Diagrams                                               | 1        |



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|                              |                                                                                    |                       |   |
|------------------------------|------------------------------------------------------------------------------------|-----------------------|---|
|                              |                                                                                    | 8.Reciprocity Theorem | 2 |
| No.of Panels :               | 11                                                                                 |                       |   |
| Students Occupancy per slot: | 33                                                                                 |                       |   |
| Photo :                      |  |                       |   |

Lab 4:

|                          |                                             |
|--------------------------|---------------------------------------------|
| Name of the Laboratory : | Electronic Computer Aided Design Lab        |
| Room No:                 | 333                                         |
| Laboratory In-charge:    | D. Vijay Harsha Vardhan                     |
| Laboratory Technician :  | T. Sri Lakshmi                              |
| Area of the Laboratory:  | 110sq.m                                     |
| Softwares included :     | MATLAB<br>Xilinx Vivado<br>PSpice<br>TinPro |
| No.of Systems :          | 70                                          |



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Photo :

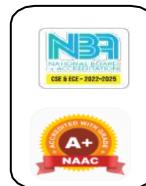




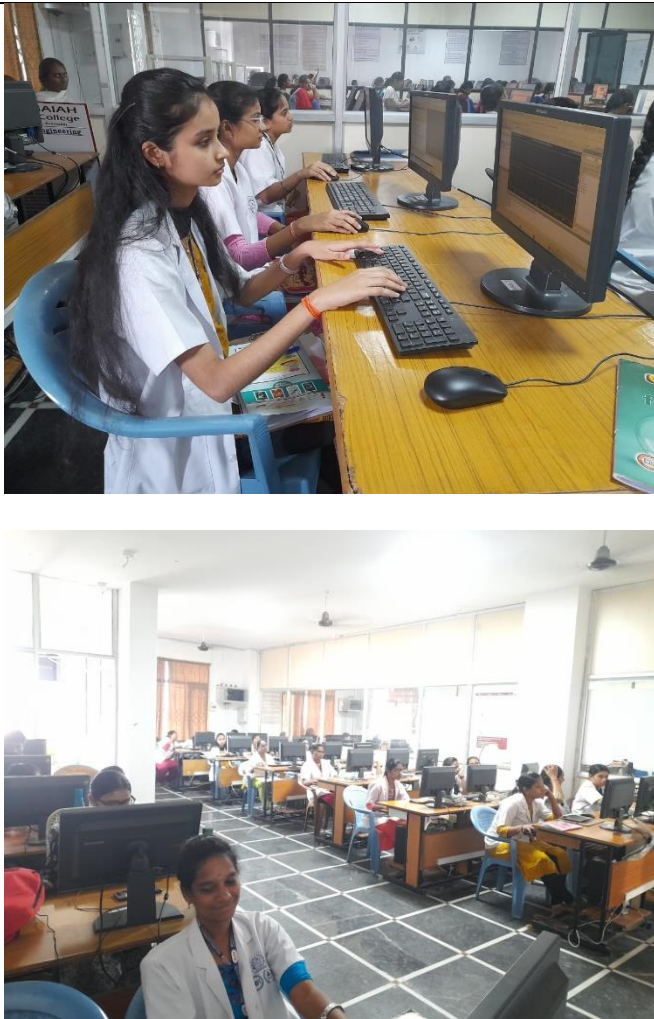
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Lab 5 :

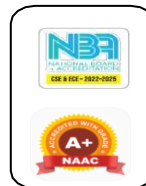
|                          |                                                                                     |
|--------------------------|-------------------------------------------------------------------------------------|
| Name of the Laboratory : | Mentor graphics Lab                                                                 |
| Room No :                | 315                                                                                 |
| Laboratory In-charge:    | T. Venkata Rao                                                                      |
| Area of the Laboratory:  | 77 sq.m                                                                             |
| Software included:       | Mentor Graphics                                                                     |
| No.of Systems :          | 30                                                                                  |
| Photo :                  |  |



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Lab 6:

|                          |                                                                                                                    |
|--------------------------|--------------------------------------------------------------------------------------------------------------------|
| Name of the Laboratory : | ARC Lab                                                                                                            |
| Room No:                 | 02                                                                                                                 |
| Laboratory In-charge:    | B.T.Madhav                                                                                                         |
| Area of the Laboratory:  | 155.119 Sq.m                                                                                                       |
| Software included:       | CPron<br>MATLAB<br>Embedded C<br>Python<br>ISE Design<br>NI Multisim 14.0<br>Design Schematic Tool<br>Tanner tools |
| No.of Systems :          | 46                                                                                                                 |
| Photo :                  |                                |



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