DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Department Profile:

Established in 1997

Annual Intake :

B. Tech.   ECE – 176
M. Tech. EC61 – 25
M. Tech. EC62 – 25
M. Tech EC63 – 16
M. Tech EC64 – 16

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Department: Electronics and Communication

Engineering

▪ Details of the equipment and its utilization

1. Testbed For Avanced Wireless Communication System Design

   Comprising of

   - LABVIEW Paid license -1
   - LABVIEW free license -1
   - Dual Band Virtual Antenna - 22 Nos
   - GPS Antenna – 1 Nos
   - Computing device – 2 Nos
   - Cost: Rs. 1,68,96,336.32
   - Installed Location : AWCS Lab

Short description about the Equipment

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▪ Details of the equipment and its utilization

2. Microwave Pro SOLV and accessories

Comprising of

- 108040/AT Multiwave Pro SOLV 50Hz - 1
- 157884/AT rotor SN mixed vessel type – 1
- 8468/AT T-prob s – 1
- 104324/AT Immersion tube s with seal NXF – 2
- 104323/AT Immersion tube s with seal NXQ – 1
- 22775/CZ Heating element ⌀10x18 – 4
- Cost : Rs. 29,93,256.33
- Installed Location : Project Lab

Short description about the Equipment

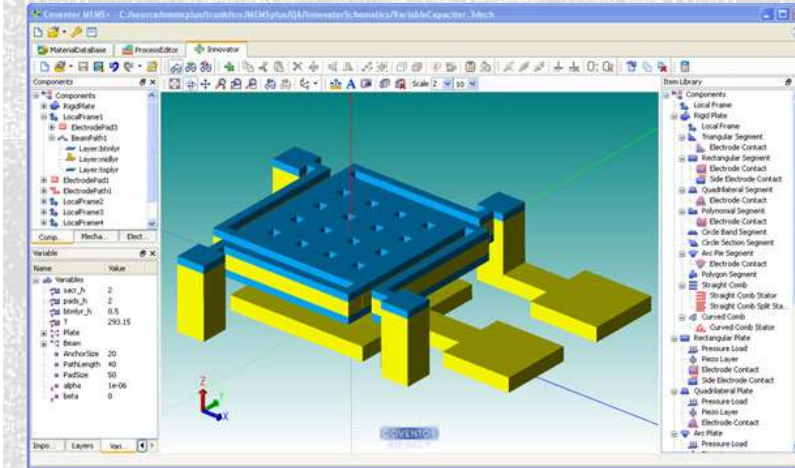**National Institute of Technology Calicut**

Department: Electronics and Communication

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- ## Details of the equipment and its utilization

3. MEMS SOFTWARE
  - MEMS Linkage with Cadence
  - Cost: Rs. 16,35,250
  - Installed Location : Project Lab

Short description about the Lab

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राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट

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▪ Details of the equipment and its utilization

4. RF Magnetron Sputtering Unit
- • Cost : Rs. 14,99,925
- • Installed Location : Project Lab

Short description about the Lab

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Department: Electronics and Communication Engineering

▪ Details of the equipment and its utilization

5. Thin Film Coating Unit

Comprising of
- DC power supply for sputter coater – 1
- DC power supply for thermal evaporator– 1
- Digital mass flow controller – 3
- Evaporation chamber – 1
- Rotary pump – 1
- Sputter coating chamber – 1
- Turbo molecular pump – 1
- Vaccum gauge – 1
- Cost: Rs. 13,99,650
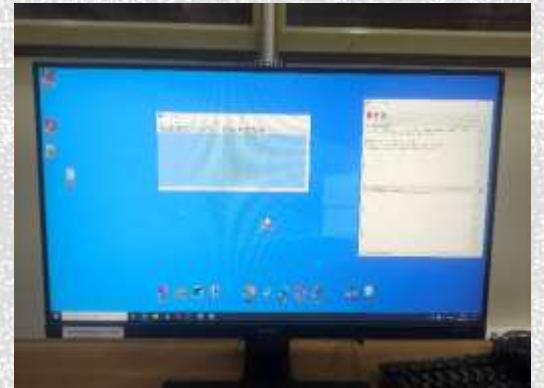- Installed Location : Project Lab

Short description about the Lab

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Department: Electronics and Communication Engineering

▪ Details of the equipment and its utilization

6. IC-CAP 2023
  • Software version w8599ux-KEYSIGHT
  • 5 User (1 Server 4 Client)
  • License till 2028
  • Cost: Rs. 11,80,000
  • Installed Location : AWCS Lab

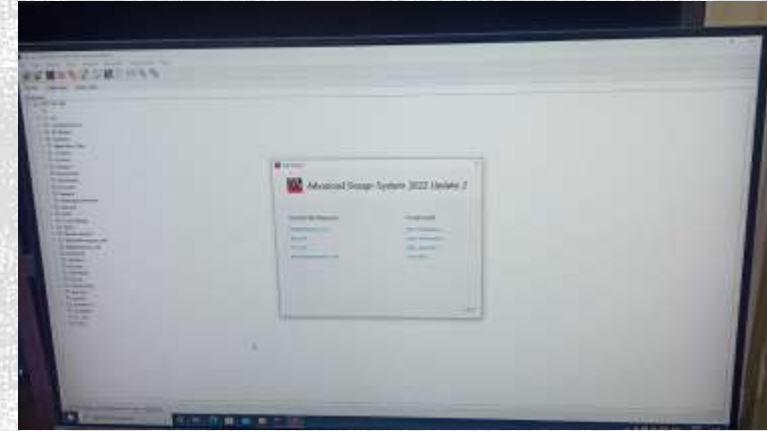Short description about the Lab

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▪ Details of the equipment and its utilization

7. ADS Premier University Bundle
- KEYSIGHT E8900PX
- 5 User
- 5 Year period
- 1 year Warranty
- Cost: Rs. 10,50,000
- Installed Location : AWCS Lab

Short description about the Lab

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(Malayalam and Hindi institute names)

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- Details of the equipment and its utilization

8. HPE Prolient DL380 Gen10 Server
- Processor : 2 x Intel Xeon silver 4309Y @ 2.80GHz
- RAM : 32GB x 4 DDR4
- SSD : 960 GB x 3
- GPU : Nvidia A30 24 GB
- Cost: Rs. 12,03,651
- Installed Location : Intel Lab

Short description about the Lab

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▪ Details of the equipment and its utilization

10. Dell Precision 7820

- Processor : Intel Xeon Silver 4210R (2.4GHz,3.2GHz)

- RAM : 64GB (4X16GB) DDR4

- HDD : 4TB

- SSD : 256 GB

- GPU : Dual Nvidia RTX A6000, 48GB

- Cost: Rs. 10,60,300.8

- Installed Location : SPCOM Lab

Short description about the Lab

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▪ Details of the equipment and its utilization

11. Dell Precision 7920

- Processor : 2 x Intel Xeon Gold 6226 @ 2.70GHz
- RAM : 256 GB
- GPU : Nvidia Quadro RTX 8000
- Cost: Rs. 10,41,333
- Installed Location : PSoC LAB

Short description about the Lab

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:

▪ ECED Conference Room

Seating capacity: 15

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Department: Electronics and Communication Engineering

- ECED Seminar Hall-1

  Seating capacity: 100

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- ECED Seminar Hall-2

  Seating capacity: 100