

GEETHANJALI COLLEGE OF ENGINEERING & TECHNOLOGY

Cheeryal (V), Keesara (M), Medchal Dist. 501301

ECE DEPARTMENT

Digital Communications/Analog Communications Lab

Room No: 214

Lab In charge: Ms. S. Jyothirmaye

Area:101sqm

Lab Assistant : A. Rama devi.

| Slno | Year | Name of the Equipment | Qty | Supplier | Bill/Invoice No. &Date | Amount | Year wise budget | Remarks |
|------|---------|--|-----|---|---------------------------|-----------|------------------|---------|
| 1 | 2006-07 | Digital multimeter | 5 | Professional Advanced Electronics, Secunderabad | Inv No: 170 13/12/2006 | 7,540.00 | 92,826.00 | |
| 2 | | Servo stabilizer(5KVA | 1 | | Inv No: 171 13/12/2006 | 9,563.00 | | |
| 3 | | Function Generators | 5 | Physitech Electronics Secunderabad | Inv No: 216 13/12/2006 | 19,760.00 | | |
| 4 | | Amplitude modulation and de-modulation Trainer Kit | 1 | | | 1,372.00 | | |
| 5 | | PHY-138 Frequency modulation and de-modulation Trainer Kit | 1 | | | 1,497.60 | | |
| 6 | | PHY-171 Balanced modulation Trainer Kit | 1 | | | 2,288.00 | | |
| 7 | | PHY-151 Synchronous detector Trainer Kit | 1 | | | 2,912.00 | | |
| 8 | | PHY-165 SSB system Trainer Kit | 1 | | | 5,408.00 | | |
| 9 | | Characteristics of mixer Trainer Kit | 1 | | | 2,080.00 | | |
| 10 | | PHY-133 Phase locked loop using 565 Trainer Kit | 1 | | | 1,872.00 | | |

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| 11 | | PHY-139 Pre-emphasis and de-emphasis Trainer Kit | 1 | | | 1,622.00 | | | |
| 12 | | Function Generators | 5 | Physitech Electronics Secunderabad | Inv No: 258 17/01/07 | 19,760.00 | | | |
| 13 | | AGC characteristics Trainer Kit | 1 | Physitech Electronics, Secunderabad | Inv No: 272 25/01/07 | 7,904.00 | | | |
| 14 | | PHY-704 Frequency synthesizer Trainer Kit | 1 | | | 2,288.00 | | | |
| 15 | | Phy-703 Squelch circuit Trainer Kit | 1 | | | 2,288.00 | | | |
| 16 | | PHY-701 Diode detector characteristics Trainer Kit | 1 | | | 1,872.00 | | | |
| 17 | | Digital phase detector Trainer Kit | 1 | | | 2,800.00- | | | |
| 18 | 2007-08 | PHY-60 Pulse Amplitude modulation and de-modulation Trainer Kit | 1 | Physitech Electronics, Secunderabad | Inv No: 029 05-06-2007 | 1,612.00 | 59,164.00 | | |
| 19 | | PHY-157 Pulse width modulation and de-modulation Trainer Kit | 1 | | | 1,612.00 | | | |
| 20 | | PHY-156 Pulse Position modulation and de-modulation Trainer Kit | 1 | | | 1,612.00 | | | |
| 21 | | PHY-422 Verification of Sampling Theorem Trainer Kit | 1 | | | 2,380.00 | | | |
| 22 | | PHY-177 Time division multiplexing & De-multiplexing Trainer Kit | 1 | | | 2,468.00 | | | |
| 23 | | PHY-150 Pulse Code Modulation & Demodulation Kit | 1 | | | 9000.00 | | | |

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| 24 | | PHY-152 Differential Pulse Code Modulation & Demodulation Kit | 1 | | | 9500.00 | | |
| 25 | | PHY-183 Frequency Shift Keying Modulation & Demodulation Kit | 1 | | | 3000.00 | | |
| 26 | | PHY-121 PSK Modulation & Demodulation Trainer Kit | | | | 4250.00 | | |
| 27 | | PHY-99 DPSK Modulation & Demodulation Kit | 1 | | | 4250.00 | | |
| 28 | | PHY-100 Delta Modulation & Demodulation Kit | 1 | | | 4,000.00 | | |
| 29 | | Computer systems | 1 | S.V.Electronics Ltd | Inv No: 3534 04-08-2007 | 15,480.00 | | |
| 30 | 2009-10 | PHY-101 Amplitude modulation and de-modulation Trainer Kit | 1 | | | 1,329.90 | 35,252.00 | |
| 31 | | PHY-701 Diode detector characteristics Trainer Kit | 1 | | | 2,901.60 | | |
| 32 | | PHY-138 Frequency modulation and de-modulation Trainer Kit | 1 | Physitech Electronics, Secunderabad | Inv No: 399 23/01/2010 | 1,450.80 | | |
| 33 | | PHY-171 Balanced modulation Trainer Kit | 1 | | | 2,216.50 | | |
| 34 | | PHY-139 Pre-emphasis and De-emphasis Trainer Kit | 1 | | | 1,622. 40 | | |
| 35 | | Mixer Characteristics Trainer Kit | 1 | | | 2,015.00 | | |
| 36 | | PHY-133 Phase locked loop using 565 Trainer Kit | 1 | | | 1,813.50 | | |
| 37 | | PHY-151 Synchronous detector Trainer Kit | 1 | | | 2,821.00 | | |

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| 38 | | PHY-165 SSB system Trainer Kit | 1 | | | 4,433.00 | | |
| 39 | | Phy-703 Squelch circuit Trainer Kit | 1 | | | 2,901.60 | | |
| 40 | | PHY-704 Frequency synthesizer Trainer Kit | 1 | | | 2,901.60 | | |
| 41 | | AGC characteristics Trainer Kit | 1 | | | 5,239.00 | | |
| 42 | | Digital phase detector Trainer Kit | 1 | | | 3,600.00 | | |
| 43 | 2010-11 | PHY-60 Pulse Amplitude modulation and de-modulation Trainer Kit | 1 | Physitech Electronics, Secunderabad | Inv No: 082 15/07/2010 | 2,200.00 | 68,582.00 | |
| 44 | | PHY-157 Pulse width modulation and de-modulation Trainer Kit | 1 | | | 1,773.00 | | |
| 45 | | PHY-156 Pulse Position modulation and de-modulation Trainer Kit | 1 | | | 1,773.00 | | |
| 46 | | PHY-422 Verification of Sampling Theorem Trainer Kit | 1 | | | 2,861.30 | | |
| 47 | | PHY-177 Time division multiplexing & De-multiplexing Trainer Kit | 1 | | | 2,659.80 | | |
| 48 | | PHY-99 DPSK Modulation & Demodulation Kit | 1 | | | 5,300.00 | | |
| 49 | | PHY-121 PSK Modulation & Demodulation Trainer Kit | 1 | | | 4,700.00 | | |
| 50 | | PHY-183 Frequency Shift Keying Modulation & Demodulation Kit | 1 | | | 3,300.00- | | |
| 51 | | PHY-100 Delta Modulation & Demodulation Kit | 1 | | | 4,400.00 | | |

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| 52 | | PHY-152 Differential Pulse Code Modulation & Demodulation Kit | 1 | | | 9,000.00 | | |
| 53 | | PHY-150 Pulse Code Modulation & Demodulation Kit | | | | 8,500.00 | | |
| 54 | | Computer systems | 1 | S.V. Electronics Ltd | Inv No: HO-4510 27-10-2010 | 22,115.00 | | |
| 55 | 2011-12 | Digital storage oscilloscope | 1 | M/S PERIDOT TECHNOLOGIES 310, Central Court, Hyderabad-082 | Inv No: PT-180/11-12 09/12/2011 | 76,509.00 | 76,509.00 | |
| 56 | 2012-13 | Cathode ray oscilloscope | 2 | | | 33,075.00 | 41,055.00 | |
| 57 | | Function generator | 2 | Physitech Electronics, Secunderabad | Inv No: 246 08/01/2013 | 7,980.00 | | |
| 58 | 2014-15 | Digital storage oscilloscope | 12 | M/S PERIDOT TECHNOLOGIES ,Hyderabad | Inv No: PT-192/14-15 15/09/2014 | 3,02,400.00 | 10,65,066.00 | |
| 59 | | RF Signal Generator(9KHz-3GHz) | 1 | SYNERGY MEASUREMENT TECHNOLOGIES SINGAPORE | Inv No: SGPR 15-027 25/05/2015 | 3,66,260.00 | | |
| 60 | | RF Spectrum Analyzer(9KHz-3GHz) | 1 | SYNERGY MEASUREMENT TECHNOLOGIES SINGAPORE | Inv No: SGPR15-027 25/05/2015 | 3,96,406.00 | | |

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| 61 | 2015-16 | Regulated DC Power Supply | 1 | HI-Q Test Equipment Private Limited, Hyderabad-5000 51 | Inv No: 081 17/06/2015 | 3,780.00 | 1,85,463.00 | |
| 62 | | N-MALE to N-MALE CABLE ASSEMBLY | 1 | SYNERGY MEASUREMENT TECHNOLOGIES PVT. LTD. 25/C, Nicholson Road, Tarbund, Secunderabad-500 009, | Inv No: HYD 15-068 23/07/2015 | 4,200.00 | | |
| 63 | | N-Type (male) to BNC(female) Adapter | 1 | | Inv No: HYD15-0100 15/09/2015 | 550.00 | | |
| 64 | | Regulated DC Power supply Dual channel 0-30V/1A | 10 | CREATIVE MICRO TECHNOLOGIES. Hyd-500083 | Inv No: 075 14/12/2015 | 42,000.00 | | 4 numbers temporarily transferred to S&H Dept |
| 65 | | PHY-54 Frequency division multiplexing and demultiplexing trainer kit | 2 | Physitech Electronics, Secunderabad | Inv No: 233 18/02/2016 | 11,384.00 | | |
| 66 | | RF Generator (0-150MHz) | 01 | | Inv No:235 18/02/2016 | 10,238.00 | | |
| 67 | | PHY-155ASK Modulation and demodulation Trainer kit | 02 | | 11,880.00 | | | |
| 68 | | PHY-177 TDM Modulation and demodulation Trainer kit | 02 | | 11,880.00 | | | |
| 69 | | PHY-168 QPSK Modulation and demodulation Trainer kit | 02 | | 30,000.00 | | | |

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| 70 | | PHY-Quadrature Amplitude Modulation & Demodulation Kit | 02 | | | 19,600.00 | | |
| 71 | | Function generator(0-10MHz) | 3 | | | 39,951.00 | | |
| 72 | 2016-17 | Radio Receiver Demonstration Trainer | 1 | Physitech Electronics, Secunderabad | Inv No: 349 02/03/2017 | 7,481.25 | 7,481.00 | |
| 73 | 2017-18 | Digital Storage oscilloscope (200MHz) | 1 | Rigol | Inv No: IN-118 05/02/2018 | 69,999.00 | 10,34,722.00 | |
| 74 | | PHY-101 Amplitude modulation and de-modulation | 2 | Physitech Electronics | Inv No:G-122 08/02/2018 | 4,278.00 | | |
| 75 | | PHY-60 Pulse Amplitude Modulation & Demodulation Kit | 1 | | | 1,958.00 | | |
| 76 | | PHY-157 Pulse width modulation and de-modulation Trainer Kit | 2 | | | 3,916.00 | | |
| 77 | | PHY-156 Pulse Position modulation and de-modulation Trainer Kit | 2 | | | 3,916.00 | | |
| 78 | | PHY-422 Verification of Sampling Theorem Trainer Kit | 2 | | | 6,090.00 | | |
| 79 | | PHY-138 Frequency modulation and de-modulation Trainer Kit | 2 | Physitech Electronics, Secunderabad | Inv No:G-122 08/02/2018 | 5,220.00 | | |
| 80 | | PHY-177 Time division multiplexing & De-multiplexing Trainer Kit | 2 | | | 8,400.00 | | |

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| 81 | PHY-171 Balanced modulation & Demodulation Trainer Kit | 2 | | | 6,162.00 | | |
| 82 | PHY-165 SSB system Trainer Kit | 2 | | | 12,616.00 | | |
| 83 | PHY-139 Pre-emphasis and De-emphasis Trainer Kit | 2 | | | 3,916.00 | | |
| 84 | PHY-133 Phase locked loop using 565 Trainer Kit | 2 | | | 4,786.00 | | |
| 85 | PHY-704 Frequency synthesizer Trainer Kit | 2 | | | 6,264.00 | | |
| 86 | AGC characteristics Trainer Kit | 2 | | | 9,426.00 | | |
| 87 | PHY-54 Frequency division multiplexing and demultiplexing trainer kit | 2 | | | 18,126.00 | | |
| 88 | PHY-155 ASK Modulation & Demodulation Kit | 2 | | | 10,162.16 | | |
| 89 | PHY-183 Frequency Shift Keying Modulation & Demodulation Kit | 2 | 7,186.2 | | | | |
| 90 | PHY-121 Phase Shift Keying Modulation & Demodulation Kit | 2 | 9,650.04 | | | | |
| 91 | PHY-99 DPSK Modulation & Demodulation Kit | 2 | 11,292.6 | | | | |
| 92 | PHY-168 QPSK Modulation & Demodulation Kit | 2 | 25,665.00 | | | | |
| 93 | PHY-Quadrature Amplitude Modulation & Demodulation Kit | 2 | 25,665.00 | | | | |

Physitech
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Secunderabad

Inv No:G-123
08/02/2018

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| 94 | | PHY-150 Pulse Code Modulation & Demodulation Kit | 2 | | | 19,505.40 | | | |
| 95 | | PHY-152 Differential Pulse Code Modulation & Demodulation Kit | 2 | | | 19,505.4 | | | |
| 96 | | PHY-100 Delta Modulation & Demodulation Kit | 2 | | | 9,239.4 | | | |
| 97 | | PHY-60 Pulse Amplitude Modulation & Demodulation Kit | 1 | | | 2,310.44 | | | |
| 98 | | Function generator(0-10MHz) | 02 | HTC | Invoice no. BN/151817079 9-2-2018 | 20,761.02 | | | |
| 99 | | Spectrum Analyzer(9KHz-3GHz) | 01 | Professional advanced Electronics | Inv No: G-041 09/02/2018 | 3,75,948.00 | | | |
| 100 | | RF Signal generator(9KHz-3GHz) | 1 | Rigol | G-042 09-02-2018 | 3,32,760.00 | | | |
| 101 | 2019-20 | Understanding Block code Encoder 1119103 to1119104 Model :Scientech 2121A | 02 | Scientech | Inv No: MS/ST/19-20/ 0488 23/11/2019 | 31,298.40 | 2,14,741.00 | | |
| 102 | | Understanding Block code Decoder 1119101 to1119102 Model :Scientech 2121B | 02 | | | 31,298.40 | | | |
| 103 | | OFDM Modulator and Demodulator Training system Model:Scientech2810 | 02 | Scientech | Inv No: MS/ST/19-20/ 0487 23/11/2019 | 1,52,145.00 | | | |
| 104 | 2020-21 | Nil | | | | | | | |

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| 105 | 2021-22 | Nil | | | | | |
| 106 | 2022-23 | Digital Storage Oscilloscope 100MHz, 2 Channel, 1G Sa Mextech Model: 5100 | 05 | Physitech Electronics, Secunderabad | Inv No: G-727 28/03/2023 | 1,37,913.00 | |
| 107 | 2023-24 | Nil | | | | | |
| 108 | 2024-25 | Nil | | | | | |
| | | Total budget in (Rs) | | | | | 3018774.00 |

