**LESSON PLAN**

**Subject Code & Name:** ***Electronic Measurements and instrumentation* Branch: *E.C.E***

**Class / Semester:*III B.Tech I Semester* Academic Year: *2016-2017***

|  |  |  |  |  |  |  |
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| **Period** | **Date (Tentative)** | **Topic** | **Unit No.** | **Teaching Methodology** | **Remarks** | **Corrective action upon review** |
|  |  | **Unit-1** |  |  |  |  |
| **1** | **27.06.2016** | **Performance characteristics of an instrument** | **1** | **BB** |  |  |
| **2** | **28.06.2016** | **Static Characteristics, dynamic characteristics** | **1** | **BB** |  |  |
| **3** | **29.06.2016** | **Accuracy, Resoultion, Precession, Expected value** | **1** | **BB** |  |  |
| **4** | **30.06.2016** | **Speed, Fidelity, Lag & Dynamic Error** | **1** | **BB** |  |  |
| **5** | **04.07.2016** | **Voltmeters-Multirange, Range extension** | **1** | **BB** |  |  |
| **6** | **05.07.2016** | **Solid State, Differential Voltmenters** | **1** | **BB** |  |  |
| **7** | **06.07.2016** | **Ammeters Shunt type thermos couple type** | **1** | **BB** |  |  |
| **8** | **07.07.2016** | **Ohmeters-Series, Shunt type, multimeter** | **1** | **BB** |  |  |
| **9** | **11.07.2016** | **Current and resistance measurement** | **1** | **BB** |  |  |
| **10** | **12.07.2016** | **Digital multimeters – block diagram and specifications** | **1** | **BB** |  |  |
| **11** | **13.07.2016** | **Exam on Unit – 1** | **1** |  |  |  |
|  |  |  |  |  |  |  |
|  |  | **Unit – 2** |  |  |  |  |
| **12** | **14.07.2016** | **Signal generators – fixed and variable** | **2** | **BB** |  |  |
| **13** | **18.07.2016** | **AF Oscillators** | **2** | **BB** |  |  |
| **14** | **19.07.2016** | **Standard AF sinwave and square generators** | **2** | **BB** |  |  |
| **15** | **20.07.2016** | **Function Generators** | **2** | **BB** |  |  |
| **16** | **21.07.2016** | **Square pulse** | **2** | **BB** |  |  |
| **17** | **25.07.2016** | **Random Noise generators** | **2** | **BB** |  |  |
| **18** | **26.07.2016** | **Sweep Generators** | **2** | **BB** |  |  |
| **19** | **27.07.2016** | **Wave Analysers** | **2** | **BB** |  |  |
| **20** | **28.07.2016** | **Harmonic Distortion Analyzer** | **2** |  |  |  |
| **21** |  |  | **2** |  |  |  |
| **22** |  |  |  |  |  |  |
| **23** |  | **Exam on Unit - 2** | **2** |  |  |  |
|  |  |  |  |  |  |  |
|  |  | **Unit - 3** |  |  |  |  |
| **24** | **04.08.2016** | **Cathode Ray oscilloscope, CRT Features** | **3** | **BB** |  |  |
| **25** | **08.08.2016** | **Vertical Amplifiers** | **3** | **BB** |  |  |
| **26** | **09.08.2016** | **Horizontal deflection system** | **3** | **BB** |  |  |
| **27** | **16.08.2016** | **Sweep, Trigger Pulse** | **3** | **BB** |  |  |
| **28** | **17.08.2016** | **Delay Line, Sync circuits** | **3** | **BB** |  |  |
| **29** | **18.08.2016** | **Simple CRO** | **3** | **BB** |  |  |
| **30** | **23.08.2016** | **Triggered Sweep CRO** | **3** | **BB** |  |  |
| **31** | **24.08.2016** | **Dual Beam CRO, Measurement of Amplitude and Frequency** | **3** | **BB** |  |  |
| **32** | **25.08.2016** | **Dual Trace Oscilloscope** | **3** | **BB** |  |  |
| **33** | **29.08.2016** | **Sampling Oscilloscope** | **3** | **BB** |  |  |
| **34** | **30.08.2016** | **Storage Oscilloscope, Digital storage Oscilloscope** | **3** | **BB** |  |  |
| **35** | **31.08.2016** | **Lissajious figures of frequency measurement** | **3** | **BB** |  |  |
| **36** | **01.09.2016** | **Standard specifications of CRO, Probes of CRO** | **3** | **BB** |  |  |
| **37** | **06.09.2016** | **Attenuator Types** | **3** | **BB** |  |  |
| **38** | **07.09.2016** | **Exam on Unit – 3** | **3** |  |  |  |
|  |  |  |  |  |  |  |
|  |  | **Unit - 4** |  |  |  |  |
| **39** | **08.09.2016** | **AC Bridges – Measurement of Inductance** | **4** | **BB** |  |  |
| **40** | **13.09.2016** | **Maxwells Bridge, Anderson Bridge** | **4** | **BB** |  |  |
| **41** | **14.09.2016** | **Measurement of Capacitance – Sehering Bridge** | **4** | **BB** |  |  |
| **42** | **15.09.2016** | **Kelvin’s Bridge** | **4** | **BB** |  |  |
| **43** | **19.09.2016** | **Wheatstone Bridge** | **4** | **BB** |  |  |
| **44** | **20.09.2016** | **WeinBridge, Errors and Precautions** | **4** | **BB** |  |  |
| **45** | **21.09.2016** | **Related Problems on Q-meter** | **4** | **BB** |  |  |
| **46** | **22.09.2016** | **Exam on Unit – 4** | **4** |  |  |  |
|  |  |  |  |  |  |  |
|  |  | **Unit – 5** | **5** | **BB** |  |  |
| **47** | **26.09.2016** | **Active Transducer** | **5** | **BB** |  |  |
| **48** | **27.09.2016** | **Passive Transducer** | **5** | **BB** |  |  |
| **49** | **28.09.2016** | **Resistance, Capacitance** | **5** | **BB** |  |  |
| **50** | **29.09.2016** | **Inductance** | **5** | **BB** |  |  |
| **51** | **03.10.2016** | **Strain Gauges** | **5** | **BB** |  |  |
| **52** | **04.10.2016** | **LVDT** | **5** | **BB** |  |  |
| **53** | **05.10.2016** | **Piezo Electric Transducers** | **5** | **BB** |  |  |
| **54** | **06.10.2016** | **Resistance Thermometers** | **5** | **BB** |  |  |
| **55** | **13.10.2016** | **Thermocouples** | **5** | **BB** |  |  |
| **56** | **17.10.2016** | **Thermistors, Sensistors** | **5** | **BB** |  |  |
| **57** | **18.10.2016** | **Basic Hall Effect** | **5** | **BB** |  |  |
| **58** | **19.10.2016** | **Sensors** | **5** | **BB** |  |  |
| **59** | **20.10.2016** | **Calibration and standards** | **5** | **BB** |  |  |
| **60** | **24.10.2016** | **Data Acquisition systems** | **5** | **BB** |  |  |
| **61** | **25.10.2016** | **Exam on Unit-5** | **5** |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | **26.10.2016 to 01.11.2016** | **Revision on all Units** |  | **BB** |  |  |
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**Faculty Name: Smt.R.Kranthi (B-Section)**

**CR: CLASS ROOM OHP: OVERHEAD PROJECTOR LCD**