**LESSON PLAN**

**Subject Code & Name: EMI**

**Branch: E.C.E-A Class / Semester: III/IV-SEM 1 Academic Year:2014-15**

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| **Period** | **Date (Tentative)** | **Topic** | **Unit No.** | **Teaching Methodology** | **Remarks** | **Corrective action upon review** |
| **1** | **25.8.14** | **Introduciton** | **I** | CB |  |  |
| 2 | **27.8.14** | Performance characteristics of instruments Static characteristics, Accuracy, Resolution, Precision, Expected value |  | CB |  |  |
| 3 | **28.8.14** | Error, Sensitivity. Errors in Measurement, |  | CB |  |  |
| 4 | **29.8.14** | Dynamic Characteristics-speed of response, Fidelity, Lag and Dynamic error. |  | CB |  |  |
| 5 | **1.9.14** | DC Voltimeters- Multirange, Range extension |  | CB |  |  |
| 6 | **3.9.14** | Solid state and differential voltmeters, AC voltmeters- multi range, range extension, shunt |  | CB |  |  |
| 7 | **3.9.14** | Thermocouple type RF ammeter |  | CB |  |  |
| 8 | **4.9.14** | Ohmmeters series type, shunt type |  | CB |  |  |
| 9 | **5.9.14** | Multimeter for Voltage, Current and resistance measurements |  | CB |  |  |
| 10 | **8.9.14** | Signal Generator | **II** | CB |  |  |
| 11 | **10.9.14** | fixed and variable |  | CB |  |  |
| 12 | **10.9.14** | AF oscillators |  | CB |  |  |
| 13,14 | **11.9.14, 12.9.14** | Standard and AF sine and square wave signal generators |  | CB |  |  |
| 15 | **15.9.14** | Function Generators |  | CB |  |  |
| 16 | **17.9.14** | Square pulse, Random noise |  | CB |  |  |
| 17 | **17.9.14** | sweep, Arbitrary waveform |  | CB |  |  |
| 18 | **18.9.14** | Wave Analyzers, Haromonic Distortion Analyzers | **III** | CB |  |  |
| 19 | **19.9.14** | Spectrum Analyzers |  | CB |  |  |
| 20 | **22.9.14** | Digital Fourier Analyzers. |  | CB |  |  |
| 21 | **24.9.14** | Oscilloscopes CRT features | **IV** | CB |  |  |
| 22 | **24.9.14** | vertical amplifiers |  | CB |  |  |
| 23 | **25.9.14** | horizontal deflection system |  | CB |  |  |
| 24 | **26.9.14** | sweep, trigger pulse |  | CB |  |  |
| 25 | **29.9.14** | delay line, |  | CB |  |  |
| 26 | **1.10.14** | sync selector circuits |  | CB |  |  |
| 27 | **1.10.14** | simple CRO |  | CB |  |  |
| 28 | **3.10.14** | triggered sweep CRO |  | CB |  |  |
| 29 | **6.10.14** | Dual beam CRO |  | CB |  |  |
| 30 | **8.10.14** | Measurement of amplitude and frequency |  | CB |  |  |
| 31 | **9.10.14** | Dual trace oscilloscope | **V** | PPT |  |  |
| 32 | **20.10.14** | sampling oscilloscope |  | PPT |  |  |
| 33 | **22.10.14** | storage oscilloscope |  | PPT |  |  |
| 34 | **23.10.14** | digital readout oscilloscope |  | PPT |  |  |
| 35 | **24.10.14** | digital storage oscilloscope |  | PPT |  |  |
| 36 | **27.10.14** | Lissajous method of frequency measurement, |  | PPT |  |  |
| 37 | **29.10.14** | standard specifications of CRO |  | PPT |  |  |
| 38 | **29.10.14** | probes for CRO |  | PPT |  |  |
| 39 | **30.10.14** | Active & Passive |  | PPT |  |  |
| 40 | **31.10.14** | attenuator type, Frequency counter |  | PPT |  |  |
| 41 | **3.11.14** | Time and Period measurement. |  | PPT |  |  |
| 42 | **5.11.14** | AC Bridges | **VI** | CB |  |  |
| 43 | **6.11.14** | Measurement of inductance- Maxwell’s bridge, Anderson bridge |  | CB |  |  |
| 44 | **7.11.14** | Measurement of capacitance - Schearing Bridge |  | CB |  |  |
| 45 | **10.11.14** | Wheat stone bridge. Wien Bridge |  | CB |  |  |
| 46 | **12.11.14** | Errors and precautions in using bridges |  | CB |  |  |
| 47 | **12.11.14** | Q-meter |  | CB |  |  |
| 48 | **13.11.14** | Transducers- active & passive transducers : Resistance | **VII** | PPT |  |  |
| 49 | **14.11.14** | Capacitance |  | PPT |  |  |
| 50 | **17.11.14** | Inductance |  | PPT |  |  |
| 51 | **19.11.14** | Strain gauges |  | PPT |  |  |
| 52 | **19.11.14** | LVDT |  | PPT |  |  |
| 53 | **20.11.14** | Piezo Electric transducers |  | PPT |  |  |
| 54 | **21.11.14** | Resistance Thermometers, Thermocouples |  | PPT |  |  |
| 55 | **26.11.14** | Thermistors, |  | PPT |  |  |
| 56 | **27.11.14** | Sensistors. |  | PPT |  |  |
| 57 | **1.12.14** | Measurement of physical parameters | **VIII** | CB |  |  |
| 58 | **2.12.14** | force, pressure |  | CB |  |  |
| 59 | **3.12.14** | velocity, humidity, moisture |  | CB |  |  |
| 60 | **3.12.14** | speed, proximity |  | CB |  |  |
| 61 | **4.12.14** | displacement |  | CB |  |  |
| 62 | **5.12.14** | Data acquisition systems |  | CB |  |  |

**CB: CHALK & BOARD PPT: POWER POINT PRESENTATION**