**LESSON PLAN**

**Subject Code & Name: EMI**

**Branch: E.C.E-B Class / Semester: III/IV-SEM 1 Academic Year:2013-14**

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| **Period** | **Date (Tentative)** | **Topic** | **Unit No.** | **Teaching Methodology** | **Remarks** | **Corrective action upon review** |
| **1** | **10.6.13** | **Introduciton** | **I** | CB |  |  |
| 2 | **11.6.13** | Performance characteristics of instruments Static characteristics, Accuracy, Resolution, Precision, Expected value |  | CB |  |  |
| 3 | **13.6.13** | Error, Sensitivity. Errors in Measurement, |  | CB |  |  |
| 4 | **14.6.13** | Dynamic Characteristics-speed of response, Fidelity, Lag and Dynamic error. |  | CB |  |  |
| 5 | **15.6.13** | DC Voltimeters- Multirange, Range extension |  | CB |  |  |
| 6 | **17.6.13** | Solid state and differential voltmeters, AC voltmeters- multi range, range extension, shunt |  | CB |  |  |
| 7 | **17.6.13** | Thermocouple type RF ammeter |  | CB |  |  |
| 8 | **18.6.13** | Ohmmeters series type, shunt type |  | CB |  |  |
| 9 | **20.6.13** | Multimeter for Voltage, Current and resistance measurements |  | CB |  |  |
| 10 | **21.6.13** | Signal Generator | **II** | CB |  |  |
| 11 | **22.6.13** | fixed and variable |  | CB |  |  |
| 12 | **24.6.13** | AF oscillators |  | CB |  |  |
| 13,14 | **25.6.13** | Standard and AF sine and square wave signal generators |  | CB |  |  |
| 15 | **27.6.13** | Function Generators |  | CB |  |  |
| 16 | **28.6.13** | Square pulse, Random noise |  | CB |  |  |
| 17 | **29.6.13** | sweep, Arbitrary waveform |  | CB |  |  |
| 18 | **1.7.13** | Wave Analyzers, Haromonic Distortion Analyzers | **III** | CB |  |  |
| 19 | **2.7.13** | Spectrum Analyzers |  | CB |  |  |
| 20 | **5.7.13** | Digital Fourier Analyzers. |  | CB |  |  |
| 21 | **8.7.13** | Oscilloscopes CRT features | **IV** | CB |  |  |
| 22 |  | vertical amplifiers |  | CB |  |  |
| 23 | **9.7.13** | horizontal deflection system |  | CB |  |  |
| 24 | **11.7.13** | sweep, trigger pulse |  | CB |  |  |
| 25 | **12.7.13** | delay line, |  | CB |  |  |
| 26 | **13.7.13** | sync selector circuits |  | CB |  |  |
| 27 | **15.7.13** | simple CRO |  | CB |  |  |
| 28 | **16.7.13** | triggered sweep CRO |  | CB |  |  |
| 29 | **18.7.13** | Dual beam CRO |  | CB |  |  |
| 30 | **19.7.13** | Measurement of amplitude and frequency |  | CB |  |  |
| 31 | **20.7.13** | Dual trace oscilloscope | **V** | PPT |  |  |
| 32 | **22.7.13** | sampling oscilloscope |  | PPT |  |  |
| 33 | **23.7.13** | storage oscilloscope |  | PPT |  |  |
| 34 | **25.7.13** | digital readout oscilloscope |  | PPT |  |  |
| 35 | **27.7.13** | digital storage oscilloscope |  | PPT |  |  |
| 36 | **30.7.13** | Lissajous method of frequency measurement, |  | PPT |  |  |
| 37 | 1.8.13 | standard specifications of CRO |  | PPT |  |  |
| 38 | 2.8.13 | probes for CRO |  | PPT |  |  |
| 39 | 3.8.13 | Active & Passive |  | PPT |  |  |
| 40 | 12.8.13 | attenuator type, Frequency counter |  | PPT |  |  |
| 41 | 13.8.13 | Time and Period measurement. |  | PPT |  |  |
| 42 | 15.8.13 | AC Bridges | **VI** | CB |  |  |
| 43 | 16.8.13 | Measurement of inductance- Maxwell’s bridge, Anderson bridge |  | CB |  |  |
| 44 | 17.8.13 | Measurement of capacitance - Schearing Bridge |  | CB |  |  |
| 45 | 19.8.13 | Wheat stone bridge. Wien Bridge |  | CB |  |  |
| 46 | 20.8.13 | Errors and precautions in using bridges |  | CB |  |  |
| 47 | 22.8.13 | Q-meter |  | CB |  |  |
| 48 | 23.8.13 | Transducers- active & passive transducers : Resistance | **VII** | PPT |  |  |
| 49 | 24.8.13 | Capacitance |  | PPT |  |  |
| 50 | 26.8.13 | Inductance |  | PPT |  |  |
| 51 | 27.8.13 | Strain gauges |  | PPT |  |  |
| 52 | 29.8.13 | LVDT |  | PPT |  |  |
| 53 | 31.8.13 | Piezo Electric transducers |  | PPT |  |  |
| 54 | 3.9.13 | Resistance Thermometers, Thermocouples |  | PPT |  |  |
| 55 | 5.9.13 | Thermistors, |  | PPT |  |  |
| 56 | 6.9.13 | Sensistors. |  | PPT |  |  |
| 57 | 9.9.13 | Measurement of physical parameters | **VIII** | CB |  |  |
| 58 | 10.9.13 | force, pressure |  | CB |  |  |
| 59 | 13.9.13 | velocity, humidity, moisture |  | CB |  |  |
| 60 | 16.9.13 | speed, proximity |  | CB |  |  |
| 61 | 19.9.13 | displacement |  | CB |  |  |
| 62 | 20.9.13 | Data acquisition systems |  | CB |  |  |
| 63 | 21.9.13 | Old question papers discussion |  | CB |  |  |
| 64 | 23.9.13 | Old question papers discussion |  | CB |  |  |
| 65 | 24.9.13 | Old question papers discussion |  | CB |  |  |
| 66 | 26.9.13 | Old question papers discussion |  | CB |  |  |
| 67 | 27.9.13 | Old question papers discussion |  | CB |  |  |
| 68 | 03.10.13 | Old question papers discussion |  | CB |  |  |
| 69 | 04.10.13 | Old question papers discussion |  | CB |  |  |

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