**LESSON PLAN**

**Subject Code & Name:** ***EMTL*** **Branch: *E.C.E***

**Class / Semester:*II B.Tech II Semester* Academic Year: *2014-2015***

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| **Period** | **Date (Tentative)** | **Topic** | **Unit No.** | **Teaching Methodology** | **Remarks** | **Corrective action upon review** |
|  |  | **Unit-1** |  |  |  |  |
| **1** | **02.02.2015** | **Review of Coordinates** | **1** | **BB** |  |  |
| **2** | **03.02.2015** | **Types, DEL, CURL, Gradient** | **1** | **BB** |  |  |
| **3** | **05.02.2015** | **Theorems, Problems** | **1** | **BB** |  |  |
| **4** | **06.02.2015** | **Electrostatics** | **1** | **BB** |  |  |
| **5** | **09.02.2015** | **Coulomb’s Law, Electric Field Intensity** | **1** | **BB** |  |  |
| **6** | **10.02.2015** | **Fields Due to Different Charge Distributions** | **1** | **BB** |  |  |
| **7** | **12.02.2015** | **Electric Flux Density** | **1** | **BB** |  |  |
| **8** | **13.02.2015** | **Gauss law and Applications** | **1** | **BB** |  |  |
| **9** | **16.02.2015** | **Electric Potential Related Problems** | **1** | **BB** |  |  |
| **10** | **17.02.2015** | **Maxwell’s TwoEQU’s for Electrostatic Fields** | **1** | **BB** |  |  |
| **11** | **19.02.2015** | **Energy Density, Related Problems** | **1** | **BB** |  |  |
| **12** | **20.02.2015** | **Convection & Conduction Currents, Dielectric Constant** | **1** | **BB** |  |  |
| **13** | **23.02.2015** | **Types of Dielectric Constant** | **1** | **BB** |  |  |
| **14** | **24.02.2015** | **Continuity Equation Relaxation Time** | **1** | **BB** |  |  |
| **15** | **26.02.2015** | **Poisson’s & Laplace Equations, Problems** | **1** | **BB** |  |  |
|  |  |  |  |  |  |  |
|  |  | **Unit - 2** |  |  |  |  |
| **18** | **17.03.2015** | **Applications** |  |  |  |  |
| **19** | **19.03.2015** | **Magnetic Flux Density, Maxwell’s 2EQU’s** | **3** | **BB** |  |  |
| **20** | **20.03.2015** | **Magnetic Scalar & Vector Potentials** | **3** | **BB** |  |  |
| **21** | **23.03.2015** | **Forces Due to Magnetic Fields** | **3** | **BB** |  |  |
|  | **24.03.2015** | **Ampere’s Force Law** | **3** | **BB** |  |  |
|  | **30.03.2015** | **Inductance & Magnetic Energy** | **3** | **BB** |  |  |
|  |  |  |  |  |  |  |
|  |  | **Unit - 3** |  |  |  |  |
| **24** | **31.03.2015** | **Maxwell’s Equations** | **3** | **BB** |  |  |
| **25** | **02.04.2015** | **Faraday’s Law, Transformer emf** | **3** | **BB** |  |  |
| **26** | **03.04.2015** | **Inconsistent of Ampere’s Law** | **3** | **BB** |  |  |
| **27** | **06.04.2015** | **Displacement Current Density** | **3** | **BB** |  |  |
| **28** | **07.04.2015** | **Maxwell’s Equations in different final forms** | **3** | **BB** |  |  |
| **29** | **09.04.2015** | **Conditions at a Boundary Surface** | **3** | **BB** |  |  |
| **30** | **10.04.2015** | **Dielectric – Dielectric** | **3** | **BB** |  |  |
| **31** | **13.04.2015** | **Dielectric – conductor Interfaces** | **3** | **BB** |  |  |
| **32** | **14.04.2015** | **Problems** | **3** | **BB** |  |  |
|  |  |  |  |  |  |  |
|  |  | **Unit - 4** |  |  |  |  |
| **33** | **16.04.2015** | **EM Wave characteristics** | **4** | **BB** |  |  |
| **34** | **17.04.2015** | **Wave Equations for conducting, Perfect Dielectric** | **4** | **BB** |  |  |
| **35** | **20.04.2015** | **Uniform plane waves** | **4** | **BB** |  |  |
| **36** | **21.04.2015** | **Relations B/W E&H** | **4** | **BB** |  |  |
| **37** | **23.04.2015** | **Sinusoidal variations** | **4** | **BB** |  |  |
| **38** | **24.04.2015** | **Wave Propagation in Lossless & Conducting Media** | **4** | **BB** |  |  |
| **39** | **27.04.2015** | **Conductors & Dielectrics Characterizations** | **4** | **BB** |  |  |
| **40** | **28.04.2015** | **Wave Propagation in good conductors** | **4** | **BB** |  |  |
| **41** | **30.04.2015** | **Good Dielectrics** | **4** | **BB** |  |  |
| **42** | **18.05.2015** | **Polarizaiton** | **4** | **BB** |  |  |
| **43** | **19.05.2015** | **Related Problems** | **4** | **BB** |  |  |
| **44** | **25.05.2015** | **Reflection & Refraction of Plane waves** | **4** | **BB** |  |  |
| **45** | **26.05.2015** | **Normal & Oblique Incidences** | **4** | **BB** |  |  |
| **46** | **28.05.2015** | **For both perfect conductors & Perfect Dielectrics** | **4** | **BB** |  |  |
| **47** | **29.05.2015** | **Brewster Angle, Critical Angle** | **4** | **BB** |  |  |
| **48** | **01.06.2015** | **Total Internal Reflection, Surface Impedance** | **4** | **BB** |  |  |
| **49** | **02.06.2015** | **Poynting Vector, Poynting Theorem** | **4** | **BB** |  |  |
| **50** | **04.06.2015** | **Applications** | **4** | **BB** |  |  |
| **51** | **05.06.2015** | **Power Loss in a plane conductor** | **4** | **BB** |  |  |
|  |  |  |  |  |  |  |
|  |  | **Unit - 5** |  |  |  |  |
| **53** | **09.06.2015** | **Transmission Lines** | **5** | **BB** |  |  |
| **54** | **11.06.2015** | **Types, Parameters, Equations** | **5** | **BB** |  |  |
| **55** | **12.06.2015** | **Primary & Secondary Constant** | **5** | **BB** |  |  |
| **56** | **15.06.2015** | **Expression For Characteristics IMP** | **5** | **BB** |  |  |
| **57** | **16.06.2015** | **Propagation Constant, Phase and Group Velocities** | **5** | **BB** |  |  |
| **58** | **18.06.2015** | **Infinite Line Concepts Losslessness/ Low Loss** | **5** | **BB** |  |  |
| **59** | **19.06.2015** | **Distortion – condition Minimum Attenuation** | **5** | **BB** |  |  |
| **60** | **22.06.2015** | **Loading – Types of Loading, Related problems** | **5** | **BB** |  |  |
| **61** | **23.06.2015** | **Input Impedance Relations SC and OC Lines, Reflection** | **5** | **BB** |  |  |
| **62** | **29.06.2015** | **Coefficient VSWR, UHF Lines as Circuit Eleements** | **5** | **BB** |  |  |
| **63** | **30.06.2015** | **- Lines** | **5** | **BB** |  |  |
| **64** | **30.06.2015** | **Smith Chart – Configuration & Appliations** | **5** | **BB** |  |  |
| **65** | **02.06.2015** | **Single & Double Stub Matching** | **5** | **BB** |  |  |
| **66** | **03.06.2015** | **Related problems** | **5** | **BB** |  |  |

**Faculty Name: Smt.R.Kranthi (A-Section))**

**CR: CLASS ROOM OHP: OVERHEAD PROJECTOR BB:BLACK BOARD LCD**