

**e-Shikshana lecture session details – Programme 03**  
18EE45 - Electromagnetic Field Theory

<b>Module 1</b>	<b>Course expert</b>
Class 1 (12/02/2020) : Vector Algebra	Dr. Uma Rao
Class 2 (17/02/2020) : Curl, Divergence and Gradient	Dr. Uma Rao
Class 3(18/02/2020) : Co-ordinate systems	Dr. Uma Rao
Class 4(19/02/2020) : Numericals	Dr. Uma Rao
Class 5(24/02/2020) : Point charge & Line charge field	Dr. Uma Rao
Class 6(25/02/2020) : Surface, volume charge and flux density	Dr. Uma Rao
Class 7(26/02/2020) : Maxwell's equation & Gauss law	Dr. Uma Rao
Class 8(12/02/2020) : Divergence & Numericals	Dr. Uma Rao
 <b>Module 2</b>	
Class 9 (2/03/2020) : Energy & potential	Dr. Uma Rao
Class 10 (3/03/2020) : Dipole	Dr. Uma Rao
Class 11 (4/03/2020) : Energy density & Numericals	Dr. Uma Rao
Class 12 (9/03/2020) : Conductor, current & continuity of current	Dr. Smitha N
Class 13 (10/03/2020) : boundary conditions & Numericals	Dr. Smitha N
Class 14 (11/03/2020) : Dielectric material & parallel plate capacitor	Dr. Smitha N
Class 15 (16/03/2020) : Numericals	Dr. Smitha N
 <b>Module 3</b>	
Class 16 (17/03/2020) : Poisson's & Laplace equation	Dr. Smitha N
Class 17 (18/03/2020) : Biot-Savarts law & numericals	Dr. Smitha N
Class 18 (23/03/2020) : Ampere's law & numericals	Dr. Smitha N
Class 19 (24/03/2020) : Stokes theorem	Dr. Smitha N
Class 20 (30/03/2020) : Magnetic flux density & potential	Dr. Smitha N
Class 21 (31/03/2020) : Numericals	Dr. Smitha N

**Module 4**

Class 22 (1/04/2020) : Magnetic forces & Torque	Dr. Abhay Deshpande
Class 23 (7/04/2020) : Magnetic materials	Dr. Abhay Deshpande
Class 24 (8/04/2020) : Boundary conditions	Dr. Abhay Deshpande
Class 25 (20/04/2020) : Magnetic circuits & inductance	Dr. Abhay Deshpande
Class 26 (21/04/2020) : Numericals	Dr. Abhay Deshpande

**Module 5**

Class 27 (22/04/2020) : Faraday's law & displacement factor	Dr. Abhay Deshpande
Class 28 (27/04/2020) : Maxwell's equation in integral and point form	Dr. Abhay Deshpande
Class 29 (28/04/2020) : Wave propagation	Dr. Abhay Deshpande
Class 30 (29/04/2020) : Poynting's vector	Dr. Abhay Deshpande
Class 31 (04/05/2020) : Propagation in good conductor	Dr. Abhay Deshpande
Class 32 (05/05/2020) : skin effect	Dr. Abhay Deshpande
Class 33 (06/05/2020) : Review problems from VTU Question papers	Dr. Uma Rao
Class 34 (11/05/2020) : Review problems from VTU Question papers	Dr. Uma Rao
Class 35 (12/05/2020) : Review problems from VTU Question papers	Dr. Smitha N
Class 36 (13/05/2020) : Review problems from VTU Question papers	Dr. Abhay Deshpande