14P1WPH112Advances in Ferrites

Subject Code	14P1WPH112		
Credits	3		Contact Hours:03
Module No.	Subtitle of the Module	Topics	
1.	Crystal Structure of Ferrites	Classes of Crystal Structures in Ferrites, Hexagonal Ferrites, Magnetic Rare Earth Garnets.	
2.	Chemical Aspects of Ferrites	Intrinsic and Extrinsic Properties of Ferrites, Magnetic Properties Under Consideration, Mixed Ferrites for Property Optimization, Temperature Dependence of Initial Permeability, Time Dependence—Initial Permeability, Chemistry Dependence—Low Field Losses, Chemistry Considerations for Hard Ferrites.	
3.	Ferrite Processing	Nonconventional	aration—Raw Materials Selection, I Processing, Nanocrystalline Ferrites, ion of Microwave Ferrites, Hard Ferrite ion.
4.	Applications of Ferrites:	_	magnetism of electrons (all types), netism, spin electronics and magnetic cations

Recommended Reading (Books/Journals/Reports/Websites etc.: Author(s), Title, Edition, Publisher, Year of Publication etc. in IEEE format)			
1.	Modern Ferrite Technology by Alex Goldman		
2.	Ferrites by J Smit & H.P.J. Wjin		