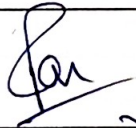


Course with Code: Big Data Analytics in Power Systems/ BEE714D					Faculty: Mr. Shreeshayana R		Semester & Section: VII	
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Class No.	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
MODULE-1								
1	Session-1	Course Orientation; CO-PO mapping awareness, Delivery and Assignment Discussion, Bridge class	ICT					
2	Session-2	Module-1: Introduction: Big Data, Future Power Systems.	Chalk & Talk/ICT					
3	Session-3	Big Data Application and Analytics in a Large - Scale Power System: Introduction	Chalk & Talk/ICT					
4	Session-4	General Applications of Big Data	Chalk & Talk/ICT					
5	Session-5	Algorithms for Processing Big Data	Chalk & Talk/ICT					
6	Session-6	Algorithms for Processing Big Data Contd, Application of Big Data in Power Systems,	Chalk & Talk/ICT					
7	Session-7	Summary, Evaluation using SRS, Model QP Discussion	ICT					
8	Session-8	Activity-1:_Case Study on Big Data Applications in Power Systems (Presentation)	ICT					
Assignment-1: Activity-1:_Case Study on Big Data Applications in Power Systems								

Course with Code: Big Data Analytics in Power Systems/ BEE714D					Faculty: Mr. Shreeshayana R		Semester & Section: VII	
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Class No.	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
MODULE 2								
9	Session-9	Module-2: Role of Big Data in Smart Grid Communications: Introduction	ICT					
10	Session-10	The Grid Modernization, The Grid Interconnection with the Internet of Things	Chalk & Talk/ICT					
11	Session-11	Data Traffic Pattern in a Smart Grid Environment, The Massive Flow of Information in a Smart Scenario	Chalk & Talk/ICT					
12	Session-12	The Volume of Generated Data in a Smart Distribution System: A Case of Study.	Chalk & Talk/ICT					
13	Session-13	Big Data Optimization in Electric Power Systems: Introduction, Background	Chalk & Talk/ICT					
14	Session-14	Scientometric Analysis of Big Data, Big Data and Power Systems	Chalk & Talk/ICT					
15	Session-15	Optimization Techniques Used in the Big Data Analysis. Model QP Discussion	Chalk & Talk/ICT					
16	Session-16	Summary, Evaluation using SRS	ICT					

Course with Code: Big Data Analytics in Power Systems/ BEE714D					Faculty: Mr.Shreeshayana R		Semester & Section: VII	
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Class No.	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
MODULE 3								
17	Session-17	Module-3:Security Methods for Critical Infrastructure Communications: Introduction	ICT	19				
18	Session-18	Effects of Successful Communication System Threats, General Communication System Operations	Chalk & Talk	20				
19	Session-19	Industrial Control Networks and Operations, High-Level Communication System Threats, Cyber Threats and Security	Chalk & Talk	21				
20	Session-20	Data - Mining Methods for Electricity Theft Detection: Introduction,	Chalk & Talk	22				
21	Session-21	Transmission and Distribution System Losses, Electricity Theft Methods	Chalk & Talk	23				
22	Session-22	Data Mining and Electricity Theft, Issues and Directions in Electricity Theft-Related Data-Mining Research.	Chalk & Talk					
23	Session-23	Summary, Evaluation using SRS, Model QP Discussion	ICT	24				
24	Session-24	Activity-2: Data Analysis & Algorithm Simulation for Smart Grid (Presentation)	ICT					
Assignment-2: Data Analysis & Algorithm Simulation for Smart Grid IA-1 Scheme Discussion								

Course with Code: Big Data Analytics in Power Systems/ BEE714D					Faculty: Mr.Shreeshayana R		Semester & Section: VII	
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Class No.	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
MODULE 4								
25	Session-25	Module-4: Unit Commitment Control of Smart Grids: Introduction	ICT	25				
26	Session-26	Renewable Energy Resources	Chalk & Talk	26				
27	Session-27	The Unit Commitment Problem	Chalk & Talk	27				
28	Session-28	The Unit Commitment Problem Contd..	Chalk & Talk					
29	Session-29	A Multi-agent Architecture	Chalk & Talk	28				
30	Session-30	Illustrative Example	Chalk & Talk					
31	Session-31	Illustrative Example Contd., Model QP Discussion	ICT	29				
32	Session-32	Summary, Evaluation using SRS	ICT					
IA-II Scheme Discussion								

	Activity	Planned	Actual	Remarks
1	Theory Classes	40		
2	Assignments/Quizzes/ Self study	5: Mock Test 2: Group Activity 5: SRS		
3	Tutorials/ Extra classes	2		
4	Internal Assessments	3		
5	ICT based Teaching (% of usage in Curriculum)	14/40=35%		
Planning			Execution	
Faculty Signature: 			Faculty Signature:	
HoD Signature:  17.7.26.			HoD Signature:	