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The basic concepts of the system per unit will be introduced along with their applications in schematic applications. Power line parameters, calculations and simulations will be introduced. The main load flow algorithms will be covered in detail by short-circuit analysis and symmetrical component method. An unbalanced fault analysis and analysis of the stability of the basic power system will also be covered in these series of lectures. By the end of the course, students should be able to collect high-quality knowledge of the components of the electrical system, its work strategies and stability analysis. INTENDED AUDIENCE: BE/B.Tech. Electric : NilINDUSTRY SUPPORT: Electricity, NTPC, NHEC, DVC and State Electrical Boards. Students enrolled: 5680 Week 1: Power System Structure and Several Other Aspects2: Resistance, Induction, and Power Line Capacity Week 3: Power System Components and Into Unit SystemWeek 4: Characteristics and Performance of Power Lines Week 5: Load Flow Analysis Week 6: Load Flow Analysis (Contd.) Week 7: Optimal OperationWeek 8: Optimal System (Contd.) Week 9: Symmetrical FaultWeek 10:Symmetrical ComponentsWeek 11:Unequal Electrical Energy Systems - Debapriya Das (New Age International)2. Power System Analysis - Hadi Saadat (McGraw Hill)3. Elements of nutrition analysis - John D. Granger, William D. Stevenson (McGraw Hill) IIT KharagpurDebapriya Das received a bachelor's degree from the University of Calcutta (B.E. College (now known as IEST), Shibpur, Howrah, WB , M.Tech. by I.I.T. Kharagpur and Ph.I.T. He has almost thirty years of teaching and research experience. For more information, you can visit my I.I.T KGP website. You can also visit the website. The COURSE CERTIFICATE Course can be enrolled and studied. But if you want to get a certificate, you must register and write an exam conducted by us in person in any of the designated exam centers. The exam is optional for a fee of 1,000 rupees/- (only one thousand rupees). Date and time of exams: December 20, 2020 Morning session from 9 a.m. to 12 p.m.; Afternoon meeting from 2 p.m. to 5 p.m. Registration URL: Announcements will be made when the registration form is open for registration. The online registration form must be completed and the certification exam fee must be paid. More information will be available after the exam registration form is published. If there is any change, it will be mentioned then. Please check the form for more information about the cities where the exams will be held, the conditions to which you agree when you fill out the form, etc. CRITERIA TO GET A CERTIFICATEAverage destination score - 25% of the average of the 8 best assignments of the 12 jobs given during the course. Exam Score - 75% of the proctored certification exam score of 100Final score - Average score assignment - Exam scoreYOU will BE ELIGIBLE FOR CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE ggt; 10/25 AND EXAM SCORE zgt; 30/75. If one of the 2 criteria is not met, you will not receive a certificate, even if the final score is 40/100.Certificate will have your name, photo and score in the final exams with the breakup. It will have the logos NPTEL and IIT Kharagpur. It will be an electronic check for npTEL.ac.in/noc. Only electronic Solid copies will not be sent. Thanks again for your interest in our online courses and Happy learning. - NPTEL team FOLLOW USA Professor Biswarup Das (en) IIT Roorkee This course introduces the computational aspects of power system analysis. The essence of this course is the description of computer algorithms for the analysis of any common energy transmission system. Starting with the load flow analysis, which is essentially the basis of any power system analysis tool, this course also deals with computer algorithms for contingency analysis, status assessment, and method of analyzing the faults of the phase of any common energy transmission system. INTENDED AUDIENCE: B.Tech Fourth Year / M.TechPRERE'SITES: Course on Power System Engineering, which is usually offered in the 2nd year / third year B.Tech programINDUSTRY SUPPORT: PGCIL, NHPC, all state electricity transmission companies Students enrolled: 2103 Week 1 : Overview of modeling components of the power system and wording YBUS matrixWeek 2 : Basic Equations of Energy Flow and Gauss-Eydel Load Flow SpeedWeek 3 : Newton-Rafson Load Flow in Polar CoordinationWeek 4 : Newton-Rafson load flow in rectangular coordination and introduction to the rapid disconnected load flow methodWeek 5 : A quick method of disconnected flow on AC-DCWeek 6 Load Flow and Flow Method : Sparsity and Optimal Order MethodsE 7 : LU and Contingency AnalysisWeek 8 : Line Downitivity Factor and Lowest SquareWeek 9 Method : Lowest Square Method (contd.) and Introduction to ACWeek Position Assessment 10 : Assessment of AC State (contd.) and poor data detection testWeek 11 : YBUS Matrix Formula three-phase unbalanced systemWeek 12 : Analysis of faults in the phase domain D. P. Kothari and I. J. Nagrath, Modern Nutrition Analysis, Tata McGraw-Hill Education, 2003.2. J. J. Granger and W. D. Stevenson Jr., Nutrition System Analysis, McGraw-Hill International Edition, 1994.3. T.K. Nagsarkar and M.S. Sukhia, Nutrition Systems Analysis, Oxford University Press, 2016. IIT RoorkeeDr. Biswarup Das received his doctorate from IIT Kanpur. He is currently a professor in the Department of Electrical Engineering at the Indian Institute of Technology, Ruorki, India. Its common area of teaching and research is the electric power system. The course is free for enrollment and training. But if you want to get a certificate, you must register and write an exam conducted by us in person in any of the designated exam centers. Afternoon meeting from 2 p.m. to 5 p.m.Registration URL: Announcements will be made when the registration form is open for registration. More information will be available when the exam is registered Posted. If there is any change, then it will be mentioned then. CRITERIA TO GET A CERTIFICATE: The average job score is 25% of the average of the top 8 jobs from the 12 jobs given during the course. Exam Score - 75% of the proctored certification exam score of 100 The ultimate score of the scoreYOU exam will be ELIGIBLE FOR CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE and EXAM SCORE zgt; 30/75. If one of the 2 criteria is not met, you will not receive a certificate, even if the final score is 40/100. It will have NPTEL and IIT Roorkee logos. It will be electronically verified on npTEL.ac.in/noc Only an electronic certificate will be provided. Solid copies will not be sent. FOLLOW USA These notes were taken by me after watching the NPTEL lectures given by Professor A.K. Sinha of IIT Kharagpur. I wrote only those lectures that I found important and which are in GATE Syllabus Download notes, take a printout then watch the NPTEL lecture and then go through these notes. 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