

9SEMESTER <i>Seventh</i>	DEPARTMENT <i>Power Engineering</i>	COURSE TITLE <i>Power Station Components Lab</i>
COURSE CODE <i>EP702</i>	HOURS: 3 UNITS: 1	COURSE SPECIFICATIONS <i>Practical Content</i>
1. Description <ul style="list-style-type: none"> ➤ Process techniques for electricity and heat generation. ➤ Measurement and arrangement of energy balances and characteristic curves in a typical power plant ➤ Technical criteria for energetic assessment of process control. ➤ Steam turbine process, combined heat and power monitoring. 		
<ul style="list-style-type: none"> ➤ Practical measurements of necessary readings for evaluating the plant efficiency. ➤ Coproduction of experiment reports ➤ Excursions to Benghazi North power plant. 		
References: <ol style="list-style-type: none"> 1. A J. Woods and B. F. Wollenberg, <i>Power Generation, Operation, and Control</i>, 2nd ed., John Wiley & Sons, 1996. 2. Mohammad Rasul, <i>Thermal Power Plants</i>, Publisher: InTech ISBN: 9789533079523, 9533079523, 1st edition 2012 3. Mukund R. Patel, <i>Wind and Solar Power Systems</i>, CRC Press, 1999. 4. <i>Renewable and Efficient Electric Power Systems</i> – Gilbert M. Masters, IEEE Press – Published by John Wiley and Sons, Inc. Hoboken, New Jersey, USA, 2004. 5. Weisman & Eckart, <i>Modern Power Plant Engineering</i>, 1985. 		