

SEMESTER <i>Seventh</i>	DEPARTMENT <i>Telecommunications Engineering</i>	COURSE TITLE <i>Telephone Systems Lab.</i>
COURSE CODE <i>ET710</i>	HOURS 3 UNITS 1	COURSE SPECIFICATIONS <i>Practical Content</i>
1. Basics of Telephone Sets: <ul style="list-style-type: none"> ➤ Connect and test a private line by using two telephone sets, power supply, and Oscilloscope. ➤ Display and test dial, ringing, and DTMF signals. ➤ Fault troubleshooting of a telephone set trainer. ➤ Echo cancellation methods. 		
2. Main Distribution Frame (MDF): <ul style="list-style-type: none"> ➤ Vertical Blocks. ➤ Horizontal Blocks. ➤ Jumpers. 		
3. Foundations of Digital Telephone Exchanges: <ul style="list-style-type: none"> ➤ Test the functions of a SMU (Subscriber Matching Unit). ➤ Test the functions of a SLIC unit (Subscriber's Line Interface Circuit). ➤ Procedures for the set-up and release of a telephone call. ➤ Fault troubleshooting of telephone exchange trainer. 		
4. Digital Switching in Telephone Exchanges: <ul style="list-style-type: none"> ➤ Test the functions of time and space switching unit. ➤ Multiplexing and Demultiplexing. 		