

**المواضيع المطلوبة في الامتحان التنافسي للمتقدمين للدراسات العليا - الماجستير في قسم هندسة المعلومات والاتصالات  
للعام الدراسي ٢٠١٩-٢٠٢٠**

#	Subject	Reference
1	Computer Networking	Behrouz A. Forouzan, "Data Communications and Networking", 5th edition, McGraw-Hill, 2012.
2	Digital Communications	John G. Proakis, "Digital Communications", 5th ed. 2008.
3	Information Theory and Error Correction Coding	Thomas M. Cover, and Joy A. Thomas, "Elements of Information Theory", 2006. Todd K. Moon, "Error Correction Coding: Mathematical Methods and Algorithms", 2005.
4	Cryptography	William Stallings, "Cryptography and Network Security, Principles and Practices", 4th edition, prentice-hall of India, 2006.
5	Data Structure & Algorithms	Clifford A. Shaffer, "Data Structures and Algorithm Analysis", Dover Publications, Edition 3.2(C++ Version), 2012.
6	Wireless Communications	Aditya K. Jagannatham, "Principles of Modern Wireless Communication Systems", Publisher McGraw-Hill, 2016.
7	Signals and Systems	Sadiku, Matthew NO, and Warsame H. Ali, "Signals and Systems: A Primer with MATLAB®", CRC Press, 2015.