

UNIVERSITI TEKNOLOGI MARA

OSM602: TELECOMMUNICATION TECHNOLOGIES

Course Name (English)	TELECOMMUNICATION TECHNOLOGIES APPROVED		
Course Code	OSM602		
MQF Credit			
Course Description	This course describes the role of telecommunications and networking in business offices and organizations. It deals with the components and procedures in the applications of telecommunications and networking. In addition, the course also examines a wide range of new and emerging telecommunications technologies and networking and use of modern telecommunications and networking for strategic advantage.		
Transferable Skills	Demonstrate analytical skills using technology. Demonstrate resilience, perseverance and positivity in multi-tasking, dealing with change and meeting new challenges. Demonstrate ability to investigate problems and provide effective solutions.		
Teaching Methodologies	Lectures, Blended Learning, Discussion		
CLO	CLO1 To explain data communications, networks, telecommunication technology and their roles CLO2 To determine the usage and importance of telecommunication systems in organizations. CLO3 To demonstrate the network and telecommunication system of an organization.		
Pre-Requisite Courses	No course recommendations		

Topics

1. 1. INTRODUCTION TO DATA COMMUNICATIONS

- 1.1) 1.1) Definition of Data Communications
 1.2) 1.2) Data Communications System Components
- 1.3) 1.3) Data Communications system Effectiveness
- 1.4) 1.4) Definition of Networks

2. 2. THE BASICS OF TELECOMMUNICATIONS

- 2.1) 2.1) The Communications Model 2.2) 2.2) Computers and Telecommunication
- 2.3) 2.3) Business Telecommunications
- 2.4) 2.4) Competitive Advantage
- 2.5) 2.5) Management Information System (MIS)

- 3. 3. THE TECHNOLOGY AND TRANSMISSION MEDIA
 3.1) 3.1) Introduction
 3.2) 3.2) Alternate Transmission Technologies and Media Guided/Wired Transmission Media
 3.3) 3.3) Unguided/Wireless Transmission Media

4. 4. THE HISTORY OF TELEPHONE AND SWITCHING SYSTEM

- 4.1) 4.1) Introduction The History of Telecommunications The Telegraph and Telephone System Modes of Transmission
- 4.2) 4.2) The Technology of Voice Communications 4.3) 4.3) The Telephone Channel Capacity Central Office and Switching Equipment Communication Circuits

5. 5. DATA CONVERSION, MODULATION AND MULTIPLEXING

- 5.1) 5.1) Introduction 5.2) 5.2) Analog and Digital Signals 5.3) 5.3) Signal Transmission and Channels
- 5.4) 5.4) Binary Number Conversion

Faculty Name: FACULTY OF BUSINESS MANAGEMENT Start Year: 2020 © Copyright Universiti Teknologi MARA Review Year: 2020

- 6. 6.BUSINESS APPLICATIONS OF TELECOMMUNICATIONS
 6.1) 6.1) Business Application
 6.2) 6.2) Service Bureau
 6.3) 6.3) Application Service Providers (ASP)
 6.4) 8.4) Teleconferencing
 6.5) 6.5) Telecommuting
 6.6) 6.6) Electronic Data Interchange (EDI)
 6.7) 6.7) Enterprise Applications Military Use of Telecommunications

Faculty Name: FACULTY OF BUSINESS MANAGEMENT Start Year : 2020 © Copyright Universiti Teknologi MARA Review Year: 2020

Assessment Breakdown	%
Continuous Assessment	100.00%

Details of Continuous Assessment	<u> </u>			
	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	NUMBERING SYSTEMS	20%	CLO1
	Assignment	ARTICLE REVIEW	20%	CLO2
	Individual Project	PROJECT	30%	CLO3
	Test	TEST	30%	CLO1

Reading List	Recommended Text	Carr, Houston H. and Charles A. Synder 2012, , The Management of Telecommunications	
Article/Paper List	This Course does not have any article/paper resources		
Other References	This Course does not have any other resources		

Faculty Name : FACULTY OF BUSINESS MANAGEMENT

© Copyright Universiti Teknologi MARA

Start Year : 2020

Review Year : 2020