



**Course Descriptor**  
**MIFS 315-Business Data Communication and Networking**

<b>Proposed Academic Year</b>	2019- 2020	<b>Last Reviewed Academic Year</b>	2019-2020
<b>Course Code</b>	MIFS315	<b>Course Title</b>	Business Data Communication and Network
<b>Credit hours</b>	03	<b>Level of study</b>	Undergraduate
<b>College / Centre</b>	CoBA	<b>Department</b>	MIS
<b>Co-requisites</b>		<b>Pre-requisites</b>	MIFS101

**1. COURSE OUTLINE**

[This course will provide students with in-depth knowledge about Business data communication and networking. The course will educate students and prepare them with the required concepts and skills of business data communication and networking. Students will learn how to assess and design efficient business data communications and networking alternatives suitable for organizations' requirements.]

**2. AIMS**

[This course aims to:

- 1) introduce students to the nature of business data communication and networking and its components.
- 2) enable students to assess business data communication and networking needs.
- 3) enable students to design efficient options for business data communication and networking to suite individual organizations' requirements.

**3. LEARNING OUTCOMES, TEACHING, LEARNING and ASSESSMENT METHODS**

<b>Learning Outcomes (Definitive)</b>	<b>Teaching and Learning methods (Indicative)</b>	<b>Assessment (Indicative)</b>
Upon successful completion of this course, students will be able to:		
1. Demonstrate an appropriate understanding of the business data communication and network.	e.g Lectures, Seminars, Group Work, Presentation, Computer Laboratory Work	e.g in-class tests, quizzes exams, Class Presentation, Assignment, Case study Report. Class work Computer based
2. Demonstrate a broad understanding of business data communication and network standards, topologies, models, technologies, devices, protocols, etc...	e.g Lectures, Seminars, Group Work, Presentation, Computer Laboratory Work	e.g in-class tests, quizzes exams, Class Presentation, Assignment, Case study Report. Class work Computer based



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3. Describe business data communication and network layers.	e.g Lectures, Seminars, Group Work, Presentation, Computer Laboratory Work	e.g in-class tests, quizzes exams, Class Presentation, Assignment, Case study Report. Class work Computer based
4. Assess business data communication and network design options.	e.g Lectures, Seminars, Group Work, Presentation, Computer Laboratory Work	e.g in-class tests, quizzes exams, Class Presentation, Assignment, Case study Report. Class work Computer based
5. Assess business data communication and network management and design controls	e.g Lectures, Seminars, Group Work, Presentation, Computer Laboratory Work	e.g in-class tests, quizzes exams, Class Presentation, Assignment, Case study Report. Class work Computer based

### 4. ASSESSMENT WEIGHTING

Assessment	Percentage of final mark (%)
Final	30
Mid	30
Assignment	30
Participation	10
<b>TOTAL</b>	<b>100%</b>

### 5. ACHIEVING A PASS

Students will achieve **03** credit hours for this course by passing **ALL** of the course assessments [alternatively, list the compulsory pass assessments\*] and achieving a **minimum overall score of 50%**

**NB \*Ensure that ALL learning outcomes are taken into account**

### 6. COURSE CONTENT (Indicative)

Introduction to Business Data Communication and network
Application layer
Physical layer
Data link layer
Network and transport layer
Network Design
Wired and Wireless Local Area Networks
Backbone Networks and Wide Area Network and the Internet
Network Management



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<b>TOTAL HOURS</b>	<b>48</b>
Plus <b>RECOMMENDED INDEPENDENT STUDY HOURS</b>	<b>24</b>
<b>TOTAL COURSE HOURS</b>	<b>72</b>

**7. RECOMMENDED REFERENCES**

**Core text/s:**

- 1) Business Data Communications and Networking. Jerry FitzGerald, Alan Dennis, and Alexandra Durcikova, Thirteenth Edition, JohnWiley & Sons, Inc., 2017.
- 2) White, C., 2015. Data communications and computer networks: A business user's approach. Cengage Learning.

**Library + online resources:**

ASU library  
ASU online resources (ProQuest and ebrary)  
Sultan Qaboos University Library (by agreement)  
Open Educational Resources: