



MAJAN UNIVERSITY COLLEGE

Accredited to the University of Bedfordshire, United Kingdom

FACULTY OF INFORMATION TECHNOLOGY

Module Name and Level	Internetworking Level 3
Module Code	NC40-3
Assessment No.	2
Assessment Type & weighting:	Case study Report Weightage 50 %
STUDENT MCUC NUMBER: Please note that a grade will only be given to those whose student number is noted on this form. Please ensure that the student number is recorded accurately.	
Submission Date:	2 January 2019
MODULE TUTOR:	Nenita Guerrero

DECLARATION

- The work contained in this assignment is my own and that all materials and sources used have been acknowledged.
- I have not copied or colluded in part or in whole, or otherwise plagiarised the work of other students.
- This assignment has not been submitted for previous assessment in any other subject or to a substantial extent has been accepted for the award of any other unit, module, degree or diploma of a university or any other institute, except where due acknowledgement is made in the text.
- I confirm that I have read, understood and followed the guidelines for assignment submission and presentation provided by the lecturer.
- I understand that this assignment may be retained on the database and used to make comparisons with other assignments in future.
- I have made a copy of my assignment
- This work may be photocopied and/or communicated for the purpose of identifying plagiarism.
- I give permission for a copy of this marked assignment to be retained by the Faculty of Information Technology for the purpose of course reviews by external examiners and to be used as a resource by Majan College.
- I understand that unauthorized late submission without a valid written extension will be marked as per the college policy mentioned in the **Student handbook section 4.4.**

INTERNETWORKING (NC40-3)
Assessment 2: Case Study Report
Weighting of this assessment towards overall Grade is 50%

Case Study Scenario:

You are a network administrator in a medium-sized business and you are required to keep current with future network upgrades.

You want to offer the best quality WAN network service to your company, so you decided to research on various technologies available for WAN connectivity. Your intent is to gather information about these WAN technologies to discuss the future goals of your company network with your team.

Requirement:

Choose two (2) of the WAN technologies listed below and prepare a report that contains a thorough discussion about the selected WAN technologies. Compare and contrast the selected technologies, clearly document the operations/functionalities of the technologies, present advantages & disadvantages, figures or diagrams, examples, etc. Include also an overall analysis and evaluation of the topic in the report. Your report must contain strong technical content and sound argument.

- a) Frame Relay
- b) Broadband Digital Subscriber Line (DSL)
- c) Broadband Cable Modem
- d) Gigabit Ethernet Metropolitan Area Network (GigaMAN)
- e) Virtual Private Network (VPN)
- f) Multi-protocol Label Switching (MPLS)
- g) Software-defined Wide Area Network (SD WAN)

Deliverable:

A report with a minimum of 2500 words covering the following tasks is expected.

The structure of the report should be as follows:

- Introduction
- Operation of technologies
- Analysis
- Discussion
- Conclusion
- Recommendation
- References

Key Deliverables and Important Dates:

Last date for submission of selected topic: (12 December 2018). This is a final date to confirm your topic with your lecturer. Failure to do so will create one letter grade reduction and an auto assigned topic to you.

Last date for submission of draft: (26 December 2018). Send the draft by e-mail to nenita.guerrero@majancollege.edu.om

Any draft submission after this date will not be accepted.

Last date for Final Submission: (2 January 2019). The final report should be submitted in **MOVE** on or before (2 January 2019, 6:00 PM). Non-submission will automatically result in failure of that assessment. No late submission will generally be accepted.

Marking Scheme and grading policy:

Your report will be graded according to:

- Content completeness, accuracy, correlation and relation of the work done to the topic selected

- Report structure (proper formatting of texts, tables and diagrams, correct and proper English)
- Relevant and appropriate references
- Good evidence of reading and research

INSTRUCTIONS

Your work will be graded on the following aspects:

1. This is an individual Assignment.
2. The assignment **MUST** be submitted online (through MOVE) on or before the due date mentioned in page 3.
3. Your assignment shall reflect the depth and breadth of your original analyses in a clear and coherent manner.
4. Use of the relevant academic literature to support ideas and issues discussed. The range of academic sources such as texts and journals to support your arguments and comments.
5. Any reference to authors and other writers shall be quoted with due acknowledgement in your assignment report using the **Harvard Referencing System**. For details of Harvard referencing style refer to the **student hand book section 7.2**.
6. This is an individual assignment and carries a **50% weighting** of the module grade.
7. This assignment follows **a case study format and** must be **original and creative**. An analytical piece of work is required. The use of 'cut and paste' approach will be penalized. It must be presented in a structured manner, with appropriate cover page, content page, introduction, body (with appropriate heading / sub-headings), conclusion, references, page numbered and any required appendices.

8. Your report should be word processed and professionally presented. The length of your report should be at least 2500 words, presented in text of font size 12 with 1.5 line spacing. Please state the exact word count at the end of the assignment.
9. The cover page should be attached with the assignment and uploaded through MOVE (on-line). Name of the student, The Programme, Module Title, Assignment Title and number of words must be reflected on the cover sheet.
10. All assignments must be adhered strictly to the deadlines specified by Majan College. Failure to hand in the assignment for any reason and without prior approval and a valid written extension from the module tutor will not be marked and will be awarded a grade G (0) irrespective of the quality of the work. See **Student Handbook section 4.4.**
11. Unacknowledged use of work of others (plagiarism) is regarded as a dishonest practice and will be will be penalized. See the penalties in the **student's handbook section 5.8.**

Additional Guidelines:

- The Assignment Submission link on MOVE will be open, a week ahead of the submission date.
- You can submit your assignment multiple times, till the submission deadline. Note that Turnitin could take up to 24 hours to produce similarity reports for submissions.
- The last submission, within the deadline, will be considered as your final submission.
- Assignments should be submitted by 6pm on the day of the deadline. There is a grace period until midnight to allow for any technical difficulties, but any assignments submitted after this will be counted as late. Technical problems will not be accepted as an excuse for submitting after the day of the deadline.
- You are required to tick to confirm the statement: "I confirm that this assignment is my own and all sources have been acknowledged. I understand that the use of other people's work or ideas without

acknowledgement is plagiarism and could result in failing the assignment". You will not be able to submit the assignment without ticking this box.

- You are advised to present sections that contain IOS commands in your assignment in an image format to avoid similarity with various sources.
- The similarity percentage of your final submission will be one of the factors considered, for assessing the originality of your assignment. However, the decision to report an assignment for plagiarism is taken by the Lecturers, who mark your assignment.
- The Lecturers will consider a number of factors such as Assignment type, Part of the assignment where similarity occurs, Nature of similarity *etc.*, along with the similarity percentage of your assignment, to assess the originality of your assignment. Therefore, similarity percentage would **not** be accepted as a basis for disputing academic judgments regarding plagiarism.
- Note that the similarity percentage of your submission can change till the submission deadline, if the submissions of other students have similarity to your assignment. Therefore, the similarity percentages are **not** final, till the assignment submission is closed.

GRADING SYSTEM

Although grades may be awarded on the basis of marks in some assessments, students should note that both marks and grades will be awarded on the basis of the assessment criteria for each grade.

Old grading System (Before Feb 2015)

GRADE	GRADE POINT	DESCRIPTI ON	GENERAL ASSESSMENT CRITERIA
A+	16	Excellent	<ul style="list-style-type: none"> • An outstanding piece of work. • Shows evidence of wider reading and originality • Strongly analytical. All important points are covered. • Arguments should be supported by examples and evidence, objectively presented and evaluated, • Well-structured and well written, without noticeable grammatical or other errors. • Correctly referenced
A	15		
A-	14		
B+	13	Very Good	<ul style="list-style-type: none"> • Very good work. • All main points will have been covered, though minor issues may have been omitted. • The work will be analytical, balanced and soundly based. • Examples and supporting evidence should have been included. • The writing should be essentially correct, without major grammatical or other errors. • Generally referenced correctly.
B	12		
B-	11		
C+	10	Good	<ul style="list-style-type: none"> • Generally good work. • Most points will have been covered, but many finer points will generally have been missed. • Shows limited reading. • Arguments/analysis should be basically well structured and balanced with relevant examples, but with errors and gaps. • The writing is clear, but has errors that nevertheless do not obscure the meaning. • Referencing will be present but may at times be inaccurate or insufficient.
C	9		
C-	8		
D+	7	Pass	<ul style="list-style-type: none"> • Satisfactory. • Shows sufficient grasp of the subject to be acceptable. • Tends to be descriptive. • Examples and evidence is likely to be weak and limited. • Shows limited reading. • Referencing is likely to be absent or very poorly carried out.
D	6		
D-	5		
E	4	Refer	<ul style="list-style-type: none"> • Unsatisfactory/ Compensatable fail. • <u>Serious errors and omissions.</u> • Very little analysis
F	2	Fail	<ul style="list-style-type: none"> • Work of a very poor standard with little relevant information and/or serious errors. • Work containing little of merit • No work submitted
F-	1		
G	0		

New Grading System (Starting Feb. 2015)

Grade Letter	Mark Band %	Grade Descriptor	
A+	80-100	Outstanding	P A S S
A	75-79	Excellent	
A-	70-74		
B+	67-69	Commendable	
B	64-66		
B-	60-63		
C+	57-59	Good	
C	54-56		
C-	50-53		
D+	47-49	Satisfactory	
D	44-46		
D-	40-43		
E	35-39	Marginal Fail	F A I L
F	25-34	Fail	
F-	01-24	Fail	
G	0	Non-Submission	

Marking Scheme

Criteria	Substandard 0	Poor 20	Satisfactory 40	Good 50	Very Good 60	Excellent 70	Outstanding 100
Introduction 10 %	No introduction found	Introduction provided is not relevant to the topic	Introduction is too concise, not clear and mostly irrelevant to the selected topic	Conveys main topic adequately. Does not describe subtopics Lacks adequate research statement.	Conveys topic, but not key question(s). General research statement.	Conveys topic and key areas. Clearly defines the subtopics. General research statement.	Strong introduction of topic's key areas. Clearly delineates subtopics to be reviewed. Specific research statement.
Operation 20%	No operation of technologies found	Information provided is not relevant.	Limited material is provided. Flow of discussion is not logically organized. Many transitions are unclear or non-existent.	Some material relevant to subtopics and main topic are provided. Arguments lack logical flow. Student attempted to provide variety of transitions	Material provided are mostly relevant to subtopics and main topic and covers essential points. Arguments are somehow logically organized and contains variety of transitions.	All material are relevant to subtopic and main topic and covers all essential points. Arguments are logically organized within subtopics. Clear, varied transitions linking subtopics and main topic.	All material are relevant to subtopic and main topic and covers all essential points. Strong organization and integration of material within subtopics. Strong transitions linking subtopics, and main topic.
Analysis 15%	No analysis found	Provided points are not relevant. Lacks analysis	Provided points are mostly irrelevant. Lacks analysis	Analysis is done and few points/key issues are identified.	Analysis is done. Explanation is missing.	Analysis and explanation found are mostly relevant	A critical analysis is found with detailed and relevant explanation
Discussion 25%	No discussion found	Discussion provided is not relevant to the topic.	General discussion was provided. No evidence of own ideas given.	Student tried to discuss on the points/issues identified in analysis section. Limited discussions of own ideas are proposed.	Student tried to discuss on the points/issues identified in the analysis section and some relevant discussions of own ideas are proposed	Ideas proposed are mostly correct and relevant to points/issues identified in the analysis section. Adds some value to the body of knowledge	Ideas proposed are completely relevant and practical to the points/issues identified in the analysis section. Adds consistent amount of value to the body of knowledge.

Conclusion 10%	No conclusion found	Conclusion provided is not relevant to the topic	General or mostly irrelevant conclusion provided	Few relevant points are given that somehow reflected the outcome of the study.	Some relevant points are given that partially reflected the outcomes of the study.	Relevant conclusion that reflected the outcomes of the study are given. Some points were drawn from the actual work done.	The conclusion adequately reflected the outcomes of the study and is relevant to the actual work done.
Recommendation 10%	No recommendation found	Recommendations provided are not relevant to the topic	General or mostly irrelevant recommendation provided	Some relevant recommendations are given. No suggestions for further studies given.	Some relevant recommendations are given. Suggestions for further studies given but are not feasible for implementation.	Relevant recommendations are given. It includes suggestions for further studies that are somehow feasible.	Relevant recommendations. It includes suggestions for further studies that are feasible.
References 10%	No references found	References provided are not appropriate.	Mostly inappropriate references provided. Just a list of sources found which are not academically acceptable (ex. Wikipedia, Blogs, etc.)	Reference list is provided and the sources are somehow relevant. No in-text citations found.	Reference list is provided and the sources are relevant. Few in-text citations are found.	Academically accepted reference list is provided. Proper in-text citations are found.	A proper Harvard referencing style is followed and all the sources are academically accepted.