

UNIVERSITY OF SOUTHERN MINDANAO

COURSE SYLLABUS for Fundamental Concepts of Mathematics

Course Number Math 212d Rev. No. o Page 1 of 10

PEFFECTIVE DATE	REV. NO.	REVISION TYPE		ARREST CONTROL OF A PROPERTY OF A STATE OF THE STATE OF T	DESCRIPTION		PAGE AFFECTED	ORIGINATOR
Nugust 16, 2021	Ø	New	Newly established compresse	ed syllabus for BS Applie Manner Instruction	natics program for use duri ons is adapted.	ng COVID-19 Pandemic. Flexible mode	of ALL	Leonard M. Paleta
Br Cent								
					ELECTRONICALLY RELEA	SED		
					2025.07.09			
			C					
hor:			Reviewer:	Verifier:	Valldator:	Final Approver:	DCC US	E ONLY
LEONARD M. Course De	leta PALET evelope	A,PhD	LEORENCE C. TANDOG, PhD Subject Expert	PHILIP LESTER P. BENJAMIN, PhD Department Curriculum Coordinator	JONALD L. PIMENTEL, PI		DOCUMENT CON	TROL INDICATO
2021.	100 1236		Date: 2021-08-02		Date: 264. 02. 07	Date: 064 · 03 · 10	MASTER 2021-09 09	COPY





		UNI	VERSITY OF SOUTHERN MINDANAO			
Course Number	Math 212d	Course Title	Fundamental Concepts of Mathematics	Rev. No.	0	Page 2 of 10

	INSTITUTIONAL POLICIES
Vision	Quality and relevant education for its clientele to be globally competitive, culture sensitive and morally responsive human resources for sustainable development.
Mission	Help accelerate socio-economic development ^{Mz} , promote harmony among the diverse cultures ^{M2} and improve quality of life ^{M3} through instruction, research, extension and resource generation in Southern Philippines.
Core Values	G-Goodness, R-Responsiveness, E-Excellence, A-Assertion of Right and Truth
USM Quality Policy Statement	The University of Southern Mindanao, as a premier university, is committed to provide quality instruction, research development and extension services and resource generation that exceed stakeholders' expectations through the management of continual improvement efforts on the following initiatives. 1. Establish key result areas and performance indicators across a mandated functions; 2. Implement quality educational programs; 3. Guarantee competent educational service providers; 4. Spearhead need-based research outputs for commercialization, publication, patenting, and develop technologies for food security, climate change mitigation and improvement in the quality of life; 5. Facilitate transfer of technologies generated to increase to the community for sustainable development; 6. Strengthen relationship with stakeholders; 7. Sustain good governance and culture, set sitivity; and 8. Comply with customer, regulatory and
Goals of the College	1. The College of Science and Mathematics of the Conversity of Southern Mindanao is committed to the comprehensive preparation of the next generation of scientists and mathematicians in this part of the country. 2. The College supplies a condition in which faculty can advance and support high-quality research programs in which students can collaborate and contribute to new knowledge that improves quality of life. 3. The College aspires to be the center of excellence in Science and Mathematics in order to serve diverse students, preparing them for their future careers in line with the vision and mission of the University. 4. The College serves the community and the industry as an impartial source of quality graduates in Science and Mathematics that provides education, literacy, innovation and solution generation to challenges.
Department Objectives	The Department of Mathematics and Statistics aims to: 1. produce students with mastery in the core areas of mathematics and statistics, including algebra, analysis, ar geometry; 2. develop students' skills in pattern recognition, generalization, abstraction, critical analysis, synthesis, problem-solving and rigorous argument; 3. express a enhanced perception of the vitality and importance of mathematics in the modern world including inter-relationships within math and its connection to other disciplines; are 4. develop students' skills in creating and evaluating mathematical conjectures and arguments, and in validating their own mathematical thinking.





		U	NIVERSITY OF SOUTHERN MINDANAO			
Course Number	Math 212d	Course Title	Fundamental Concepts of Mathematics	Rev. No.	0	Page 3 of 10

	PROCESSES PROCES	OGRAM INFORMATION			
Degree Program	Bachelor of Science in Applied Mathematics	CHED CMO Reference	48 series of 2017	BOR Approval	BOR Res. No. 24, 5 2020

			CO	URSE DETAILS		and the second s
Course Title	Fundamental Conce	epts in Mathematics	7		and the second seco	er en janet i verske generale til store fra steret i verske store fra
Course Number	Math 212d	Tomate description and the state of the second of the seco	V	Curriculum Component	Major subject	
Credit (Unit)	3 Units	LECTURE (Unit-Hours)		3 Units - 3 Hours	LABORATORY (Unit-Hours)	o Units - o Hours
Prerequisites	None	Co-requisites	Maria de	None	Year Level/Semester Offered	1st - Second Semester
Course Description	This course covers se introduction to math	ts, principles of logic, method of proof, r ematical systems	elatio	ons, functions, integers, binary	operations, complex numbers, matr	ices and matrix operations, and a
Faculty in charge	Leonard M. Paleta, PhD	19 minus (15), 190 is 1000	2000		er en skrivet fan de skrivet fan de De skrivet fan de skrivet	and the second s
Consultation Hours			V 1V2 B(1	Contact Information		to the second commence of the

	RO FRAM EDUCATIONAL OBJECTIVES (PEO)		MISSION	1
In 3-5 ye	ears, the BS Applied Mathematics graduates of 15M shall:	Ma	M2	Мз
PEO 1	Provide leadership in various development programs both public and private		Facilities of the Section Control	
PEO 2	Equip with technical, conceptual and hemai resource skills	1		1
PEO 3	Pursue entrepreneurial activities	1	5.00	1
PEO 4	Able to adapt to diverse culture		1	
PEO 5	Pursue advanced studies in emerging related fields		1	1

NOTE: The PEO's are based on the professional, industry, local, national and international needs and requirements of the program identified through consultation with constituents and stakeholders.





UNIVERSITY OF SOUTHERN MINDANAO

Course Number Math 212d Course Title Fundamental Concepts of Mathematics Rev. No. 0 Page 4 of 10

PROGRAM OUTCOMES (PO) pon graduation, the University of Southern Mindones BS Applied Not to see the second	PE01	PE02	PEO ₃	E04	PEOS	2 5	PE08	PE09	PEO10
pon graduation, the University of Southern Mindanao BS Applied Mathematics students must be able to: Articulate and discuss the latest development in the smaller St. L. S.	-	4	4	4	٠ ۱	, o	٠ ٩	4	五
The mid-copy tile intest the mid-copy tile in the chocitic tials at his atile		1			, waster to				
/ Totalicate Oldily Bill III Willing Heing Doth Bhalles and Ellistes		1		100	1				
The state of the s	14-14-2	-	1	1		Pilar Pilar	-	-6.00	
	1	-	-		70		2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
The promote i inplito historical and cultural naritana"		-		1					
Participate in the generation of new knowledge in research and development o'ects. Articulate the rootedness of education in philosophical coalest the rootedness of education in the rootedness of educa		1							
	1	1		200				10.000	
This is the state in a stery of subject in a terror is a state of the		1					+		-
Facilitate learning using wide range of teaching methodologies and rich ary modes appropriate to specific learners and their environment. Develop innovative curricula, instructional plans, teaching approach and described and recovery and	-	1	1						-
		1		1					-
Apply skills ill the development and utilization of ICT to promote all the relevant and questionable educational and utilization of ICT to promote all the relevant and questionable educations and apply skills ill the development and utilization of ICT to promote all the relevant and question of ICT to promote all the	-	1		•	\dashv	+			-
Definitional attention of thinking skills in planning, monitoring according leaveling		1			\dashv	-			H
receive professional and ethical teaching standards sensitive to the local national and global realities	1			attend.					-
Pursue lifetong learning for personal and professional grown regular varied experiently and field beard as a second	+			>	-				L
Exhibit Competence in mathematical concepts and projectives		-			1				L
Exhibit proficiency in relating mathematics to other cur, war areas	100	~							
Gain mastery in the cores areas of mathematics: all abril analysis, and geometry		~		M.					
Demonstrate skills in pattern recognition, general, tion, abstraction, critical analysis, synthesis, problem-solving and place-up and p		1							
Develop an enhanced perception of the vitality and importance of mathematics in the modern world including later and all the modern world including later and al		1							
Develop an enhanced perception of the vitality and importance of mathematics in the modern world including inter-relationships within math and its connection to other disciplines.		1							
Appreciate the concept and role of proof and soning and demonstrate knowledge in reading and writing mathematical and a soning and demonstrate knowledge in reading and writing mathematical and soning and demonstrate knowledge in reading and writing mathematical and soning and demonstrate knowledge in reading and writing mathematical and soning and demonstrate knowledge in reading and writing mathematical and soning and demonstrate knowledge in reading and writing mathematical and soning and demonstrate knowledge in reading and writing mathematical and soning and demonstrate knowledge in reading and writing mathematical and soning and demonstrate knowledge in reading and writing mathematical and soning and demonstrate knowledge in reading and writing mathematical and soning and soni									
wake and evaluate matrical conjectures and arguments and validate their own mathematical third is		1							
-ommunicate mathematical ideas orally and in writing using clear and precise language		1							Selver
Minimum PO's shall come from the PSG/CMO of the program if applicable. Other additional PO's may come from consultations with constituents and stakeholders.									





UNIVERSITY OF SOUTHERN MINDANAO

Course Number Math 212d Course Title Fundamental Concepts of Mathematics Rev. No. O Page 5 of 20

	COURSE OUTCOMES (CO)	POa	POb	90 Z	P 04	POF	POg	Poh	2 2	ğ	POI	POm	POn	80		Į Į	POs	ğ	2 S	Pow	Pox	POy PO7
Upon p	assing this course, the students must be able to: Course Alignment to Program Outcomes	1	E	E	EE	E	D	1 1) E	E	Ε	E	E	1	I D	D	D	E	E			
CO 1	Define and discuss the ideas of sets and its operations. Illustrate using Venn diagrams.	1	E	E	EE	1	D	1 1) E	E	E	E	E	1	I D	, D	D	E	E			
CO 2	Discuss the concepts of logic, logical equivalences, its validity and constructing to tables	1	E	E	E	E	E	E	E E	E	E	E	E	1	I C	, 0	D	E	E			
CO 3	Understanding proofs and constructing logical proofs like direct and indirect proof, proof by cases and counterexample, and Proof by Mathematical Induction	1	Ε	E	EE	E	E	E	EE	E	E	E	E	1	1 0	, 0	D	E	E			
CO 4	Discuss and evaluate concepts about relations, functions, integers and biner operations.	1	E	1	E	E	E	DI	2 0	E	E	E	E	1	1 [ם	D	E	E			

^{*} Level (follow the legend used in the most relevant PSG/CMO)

[[]D] = Demonstrative. This demonstrates the student's attainment of the Program Outcome (PO)

			COUR	SE LEARNING PLAN			all a lateral a	
Intended Learning Outcomes (ILO) By the end of the learning experiences, students must be able to	Aligned to CO:	Time Frame (Week)	Course Content (Topics)	Teaching & Learning Teaching Activities	Activities (TLA) Learning Activities	Learning Materials	Assessment Tasks (AT)	Suggested Readings
 1.1 Explain the vision, mission, UQPS of the University 1.2 Explain the goals and objectives of the college. 1.3 Explain the Program Educational Objectives, Students Outcomes, and Course Outcomes. 			University Policies as well as Grading System Discussion on PEO, SO and CO	Orientation Lecture/Discussion	Reading; Assignment	Computer; Chalkboard	Recitation	[1]
1.1 Write and define the given sets using rosters and\or abstraction methods 1.2 Application of writing the given sets i.e Real numbers using	CO1	2	 Sets and Elements Basic definitions and notations Rosters and set-builder notations Famous sets Abstraction 	Lecture/Video Presentation/addressing students questions Zoom video conference Module	Discussion Board work Seat work Group Reporting USM VLE/ MyOpenMath Task	Chalkboard/ Whiteboard Book\PDF Projector Laptop/PC	Assignments Quizzes Exams Reflective paper USM VLE Exercises	[2][3][4][5][6][7][8]



This document is a sole property of UNIVERSITY OF SOUTHERN MINDANAO. Any disclosure, unauthorized reproduction or use is strictly prohibited except with permission from USM.

Only documents with standard signatories of USM are considered official.

USM-EDU-F05-Rev4.2020.2.18

[[]I] = Introductory. This introduces the student to the Program Outcome (PO).

[[]E] = Enablir j. The enables the student to attain the Program Outcome



UNIVERSITY OF SOUTHERN MINDANAO

Course Number Math 212d Course Title Fundamental Concepts of Mathematics Rev. No. 0 Page 6 of 10

Interval notation 1.3 Determine and list the power set and cardinality of finite sets			Power set Cardinality of a finite set and infinite set			Instructional Module		
 1.1 Define equality and subsets and learn how to prove them 1.2 Familiarity of union, intersection, set-difference, complements of sets; sketch using Venn Diagrams 1.3 Construct and understand Cartesian product of two sets 1.4 Mastery of order of operation of sets 1.5 Familiarity and prove the algebra of set operations 	CO1	3-4	Set Operations Subsets and Equality Union and Intersection Complements and Set Difference Cartesian Product of two sets Algebra of set operations Important properties of set operations	Lecture/Video Presentation/addressing students questions Zoom video conference Module	Discussion Board work Seat work Group Reporting USM VLE/ MyOpenMath Task	Chalkboard/ Whiteboard Book\PDF Projector Laptop/PC Instructional Module	Assignments Quizzes Exams Reflective paper USM VLE Exercises	[2][3][4][5][6][7][8]
1.1 Familiarize Venn Diagrams 1.2 Draw and interpret Venn diagrams 1.3 Learn how to construct Venn Diagrams 1.4 Explore De Morgan's Law and illustrate it visually using Venn Diagrams 1.5 Illustrating the operations on sets using Venn Diagrams 1.6 1.7 Draw Venn diagrams illustrating	CO1	5	Venn Diagram and De Morgan's Laws Constructing Venn Diagrams Operations on sets using Venn Diagram Equivations classes De Norgan's Law	Lecture/Video Presentation/addressing students questions Zoom video conference Module	Discussion Board work Seat work Group Reporting USM VLE/ MyOpenMath Task	Chalkboard/ Whiteboard Book\PDF Projector Laptop/PC Instructional Module	Assignments Quizzes Exams Reflective paper USM VLE Exercises	[2][3][4][5][6][7][8]
sets within and families of sets 1.1 Identify if a sentence is a proposition or not 2.2 Provide the truth value of a proposition 3 Show that a given string is a propositional form	CO ₂	6-7	Principles of Logic • Statement\Propositions, Logical connectives • Compound statements and logical operators • Validity and Truth tables	Lecture/ Video Presentation Zoom video conference Module	Discussion Board work Seat work Group Reporting USM VLE/ MyOpenMath Tasks	Chalkboard/ Whiteboard Book PDF Workbook Projector	Quizzes Exams Seatworks Reports/ Reflective paper USM VLE Exercises	[2][3][4][5][6][7][8]



This document is a sole property of UNIVERSITY OF SOUTHERN MINDANAO. Any disclosure, unauthorized reproduction or use is strictly prohibited except with permission from USM.

Only documents with standard signatories of USM are considered official.

The state of the s



++		UNIVE	RSITY OF SOUTHERN MINDANAO		Tarlow I	
Course Number	Math 212d	Course Title	Fundamental Concepts of Mathematics	Rev. No.	0	Page 7 of 10

1.4 Translate the given propositional form into words and vice versa1.5 Construct the truth table of the given propositional form.			Propositional forms Quantifiers Interpreting propositional forms	Same of Market St.	8 (1) (1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	Laptop/PC	Constitution of the second	
 1.1 Constructing truth tables for conjunction, disjunction,negation, implication and bi-conditional propositions 1.2 Constructing truth tables for Tautologies and Contradiction 	CO2	8	Validity and Truth Tables Truth tables for conjunction, disjunction, negation, implication and bi-conditional propositions Tautologies and Contradiction Inverse, Converse and Contrapositive and their relationship	Lecture/Video Presentation/addressing students questions com video conference Module	Discussion Board work Seat work Group Reporting USM VLE/ MyOpenMath Task	Chalkboard/ Whiteboard Book\PDF Projector Laptop/PC Instructional Module	Assignments Quizzes Exams Reflective paper USM VLE Exercises	[2][3][4][5][6][7][8]
All ILOs covered in Midterm		9		XAMINATION			The second second	I
 1.1 Familiarity of proof methods and cite a basic example 1.2 Prove using different methods of proof 1.3 Write a paragraph of proofs for a given proposition 1.4 Determine the steps and techniques in proving direct or indirect methods 1.5 Determine the steps in proving by Mathematical induction 	CO3	10-11	Methods of Proof Direct Proof Indirect Proofs Using cases a proof Proof by counter example Principles of Mathematical industrics	Lecture/Video Presentation/addressing students questions Zoom video conference Module	Discussion Board work Seat work Group Reporting USM VLE/ MyOpenMath Tasks	Chalkboard/ Whiteboard Book\PDF Projector Laptop/PC Instructional Module	Assignments Quizzes Exams Reflective paper USM VLE Exercises	[2][3][4][5][6][7][8]
 1.1 Define a relation and give basic examples 1.2 Familiarize equivalence relations 1.3 Give examples of equivalence classes and partitioning 1.4 Define partial ordering and give basic examples 	CO4	12-13	Definition Equivalence Relations Equivalence classes and Partitioning Partial Ordering	Lecture/Video Presentation/addressing students questions Zoom video conference Module	Discussion Board work Seat work Group Reporting USM VLE/ MyOpenMath Tasks	Chalkboard/ Whiteboard Book\PDF Projector Laptop/PC Instructional Module	Assignments Quizzes Exams Reflective paper USM VLE Exercises	[2][3][4][5][6][7][8]
Define what is a function Familiariaze and differentiate the	The Mark	er er er er Serene	Functions Injection, Surjection, Bijection	Lecture/Video Presentation/addressing	Discussion Board work	Chalkboard/	Assignments	[2][3][4][5][6][7][8]



This document is a sole property of UNIVERSITY OF SOUTHERN MINDANAO. Any disclosure, unauthorized reproduction or use is strictly prohibited except with permission from USM.

Only documents with standard signatories of USM are considered official.

USM-EDU-F05-Rev4.2020.2.18



Course Number Math and	UNIVE	UNIVERSITY OF SOUTHERN MINDANAO					
Math 212d	Course Title	Fundamental Concepts of Mathematics	Rev. No.		Page 8 of 10		

			Course little	Fundame	ental Concepts of	Mathematics	Rev. N	o. O	Page 8 of:
types of functions like injection, surjection and bijection Given a function, determine its images, inverse images, range, domain and co-domain Give the requirements for a function to be a one to one correspondence	CO4	14-15	 One to one correspondence Image, inverse image Range, Domain and Co-domain Counting Principles Countable and uncountable sets 	students questions Zoom video conference Module	Seat work Group Reporting USM VLE/ MyOpenMath Tasks	Whiteboard Book\PDF Projector Laptop/PC Instructional Module	Quizzes Exams Reflective pape USM VLE Exercises		
 1.1 Define what is an integer 1.2 Define divisibility of an integers 1.3 Mastery on division and Euclidean Algorithms 1.4 State and prove the Fundamental Theorem of Arithmetic 	CO4	16	integers Divisibility Division Algorithm, Euclidean Algorithm Fundamental Theorem of Arithmetic	resentation/addressing students questions Zoom video conference Module	Discussion Board work Seat work Group Reporting USM VLE/ MyOpenMath Tasks	Chalkboard/ Whiteboard Book\PDF Projector Laptop/PC Instructional	Assignments Quizzes Exams Reflective pape USM VLE Exercises		[5][6][7][8]
 1.1 Define a binary operation an modular operations. Give basic examples 1.2 Define a matrix and give basic examples 1.3 Define a complex number. Illustrate it in the xyplane and give basic example 1.4 Familiarity of basic operations of matrices and complex numbers 	CO4	17	Definition Modular operations Operations Matrices Operation on Complex Numbers	Lecture/Video Presentation/addressing students questions Zoom video conference Module	Discussion Board work Seat work Group Reporting USM VLE/ MyOpenMath Tasks	Module Chalkboard/ Whiteboard Book\PDF Projector Laptop/PC Instructional Module	Assignments Quizzes Exams Reflective paper USM VLE Exercises		5][6][7][8]
All ILOs covered in the Course		18			INAL EXAMINAT	ION	and the second s	1960 1870 1970	and the state of t

^{*} any interaction, course, program, or other experience in which learning takes place (https://www.edglossary.org/learning-experience/)

Textbook/References

[1] USM Student Manual

- [2] Chartrand, Polemeni and Zhang. 2013. Mathematical Proofs: A transition to advanced mathematics, 3rd Ed. Pearson, USA.
- [3] Gerstein, Garry . 2012. Introduction to Mathematical Structures and Proofs, 2nd ed. Springer, USA
- [4] Kurtz, David C. 1992. Foundation of Abstract Mathematics. Mcgraw-Hill College, USA.
- [5] Morash, Ronald P.2010. Bridge to Abstract Mathematics. Random House, Inc. New York.





UNIVERSITY OF SOUTHERN MINDANAO Course Number Math 212d **Fundamental Concepts of Mathematics** Page 9 of 10 Course Title Rev. No. 0

[6] O'Leary, Michael L. 2016. A First Course in Mathematical Logic and Set Theory

[7] Rotman, Joseph J. 2007. Journey to Mathematics. Dover Publications, Inc. NY, USA.

Life-long Learning Opportunity

[8] Sundstorm, Ted. 2020. Mathematical Reasoning-Writing and Proof. Grand Valley State University. (https://LibreTexts.org)

Apply logic and set theory in daily discourse, logical reasoning and judicious decision making in daily lives. Apply the principles of logic to tell sound from unsound reasoning in everyday discourse, and apply appropriate set theoretic concepts, thinking processes, tools and technologies in the solution to various conceptual or real-world problems.

	Course Evaluation				
Course Outcomes (CO)	Assisment Task Addressing CO	Weight (%)	Satisfactory Rating	Target Standard	
CO 1: Define and discuss the ideas of sets and its operations. Illustrate	Culzze /Assignments/Others	60		90% of the class obtained a satisfactor rating	
using Venn diagrams.	N. for Exam	40	60		
			gerialise in the second	I aging	
CO 2: Discuss the concepts of logic, logical equivalences, its validity	ulzzes/Assignments/Others	60		90% of the class obtained a satisfactor	
and constructing truth tables	Major Exam	40	60		
CO3: Understanding proofs and constructing logical proofs like quect	Quizzes/Assignments/Others	60		90% of the class obtained a satisfacto	
and indirect proofs, proof by cases and counterexample, an	Major Exam	40	100000000000000000000000000000000000000		
Proof by Mathematical Induction		1 1	60		
CO 4: Discuss and evaluate concepts about relations, functions,	Quizzes/Assignments/Others	60		90% of the class obtained a satisfactor rating	
Integers and binary operations.	Major Exam	40	60		





Course N		UNIVER				
Course Number	Math 212d	Course Title	Fundamental Concepts of Mathematics	Rev. No.	0	Page 10 of 10

Midterm Grade	Grading System
Quizzes40% Assignments/Others30% Midterm Exam30%	Final Grade 50% Midterm Grade+50% Final Term Grade
Final Term Grade Quizzes/Summative Exams40% Assignments/Others30% Final Exam30%	Passing Grade 60%

Classroom Policies

- 1. Come to class prepared for recitation, class discussions, or unannounced zur zes always. Demonstrate personal responsibility by obtaining notes and finding out any instructions/important announcements given on the class period missed.
- 2. Absence is not a right, nor a privilege. The University Code on absence and tardiness applies. 20% of the total class hours means you are DROPPED from the course. Absences can be excused only after presenting official documents.
- 3. All submissions must be your original work. Cite sources property against and any form of academic cheating get a corresponding grade of 5.0 (Failed) and can be grounds for suspension or expulsion.
- 4. During online class, students are expected to:
 - a. Show up on a scheduled time and wait to be admitted into the class.
 - b. Be always respectful. If your video is on, avoid hand gestures or inappropriate language.
 c. Stay on mute. Click a raise hand button if you question or something to share.

 - d. Stay focused and on task so you don't miss anything the speaker says.
 - e. Class participation is highly encouraged.
- 5. Consultation: You can approach your class mayor for your concerns so he/she will relay them once to your professor
- 6. All Information and queries regarding our class will be posted in our official group chat or facebook group. Refrain from posting unrelated topics in these platforms as these will take up space in the messenger box and will make it difficult to backread important messages.
- 7. Observe proper decorum when sending messages to your professors.
- 8. Avoid sending messages online outside office hours or during evening.
- a. All submissions must be in USM VLE. Submissions made outside VLE will not be accepted.

