

UNIVERSITY OF JOS Faculty of Management Sciences Department of Business Administration

Course Syllabus (BUS	111: Business Mathematics 1)		
General Information			
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	Room 176A, 3rd Floor, Library Complex, Naraguata Campus,		
	OFFICE ADDRESS: University of Jos		
	CONTACT HOURS: Mondays: 8:00 GMT - 11:00 GMT		
Course Description	This is a three-credit unit core course that aims at introducing students of Business to the		
	fundamental mathematical concepts and models with applicable relevance to business		
	practice i.e. business decision-making. BUS 111 covers: Mathematics and Symbolic Logic;		
	Inductive and Deductive Systems of reasoning; theory of set; Matrix and Determinants;		
	Discrete and Continuous variables; Relations and functions; functions and Simple		
Learning Outcomes	Upon successful completion of this course, students would be able to:		
	Apply the principles of logical reasoning to solving decision making problems Itilise Matrix operations in solving practical business problems		
	• Apply functions to solving business and economic problems		
	Use the theoretical concepts of set and series to solving simple real life business cases		
Course motorials	This source is practical griented and highly interrective. Owning or gaining access to a		
Course materials	This course is practical-oriented and highly interractive. Owning or gaining access to a		
	however run minimally on Windows vista and be equipped with Microsoft office suite		
	Adobe Acrobat reader web browser (Internet explorer Chrome etc) internet access		
Communication	Communication is critical to learning. Students are therefore encouraged to contact the		
	course lecturer via email or blog site with any questions or concerns. Students will also have		
	the opportunity to discuss course related issues in the classroom and discussion forum on		
	samolutuase.com. The instructor will post announcements on the course homepage as well		
	as send periodic emails. You are therefore advised to check course site and your inbox		
	regularly.		
Evaluation	The course evaluation is structured as follows:		
	NO. ITEMS WEIGHT		
	1. Quiz 1 15%		
	2. Quiz 2 15%		
	3. <u>Semester exam 70%</u>		
	<u>101AL 100%</u>		
Grading			
	SCORE RANGE GRADE GRADE POINT REMARK		
	70 – 100 A 5 PASS		
	60 - 69 B 4 PASS		
	50-59 C S PASS		
	40-44 E 1 PASS		
	00 – 39 F 0 FAIL		
Methodology	Students are required to attend classes punctually and regularly. They are also required to		
	participate in all course activities. While it is highly encouraged to ask questions in the class		
for the purpose of understanding, students will be required to do all exercises given as as other relevant exercises to further deepen understanding of each topic, concept			



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Course Outline	TOPICS	DETAILS
	Topic 1: Logic and Reasoning	Meaning, Statement, Connectives, Operations, Truth values and Tables, Deductive and Inductive Reasoning, Laws, Application
	Topic 2: Set Theory	Description, elements, notation, types, operations, Venn diagrams, laws
	Topic 3: Matrices	Definition of a matrix, types, operations, determinants of order one, two and three, adjoint of a matrix, application
	Topic 4: Relations and Functions	Description of relations and functions, types of functions, linear and quadratic, application to business
	Topic 5: Sequences and Series	Meaning of sequences and series, AP series, GP series, sum of series, application to business problems
Reading List	Qazi, Z., Vijay, K. K., & Delhi, India: Vikas Pub	Bhambri, S. K. (2009). Business Mathematics, 2nd Edition. New lishing House PVT LTD