


NEAR EAST UNIVERSITY - COMMON COURSES COORDINATION UNIT							
 Department of mathematics Course Information Sheet & Course Outline							
<b>Course Code</b>	<b>Course Name</b>	<b>Credit</b>	<b>ECTS</b>				
MTH131	General Mathematics for Tourism and Hospitality	3	6				
<b>Pre-requisite:</b>							
<b>Language: English</b>		<b>Course Type: compulsory</b>		<b>Year:2020</b>		<b>Semester: spring</b>	
Weekly Hours	Class Hours	Laboratory	Practicum	Learning Sessions			
	3		0	0	PS	C	R
<b>Learning Outcomes</b>		After the completion of this course, the student will be able to ► Analyse the preliminary algebraic expressions ► Understanding elementary calculations ► Determining mathematical methods for solving real world questions ► Calculating simple expressions					
<b>Course Description</b>	This course covers the basic concepts of mathematics and algebra including the line equation, Parabola, quadratic equations and simple calculations in arithmetic.						
<b>Course Objectives</b>	The objective of this course is to provide an understanding for the non-engineering students the preliminary concepts and it has been started with simple arithmetic's operations, fractions and concepts of the sets and their usage and ended by words questions.						
<b>Textbooks and/or References</b>	1	Stewart, I. (1998). <i>Life's other secret: The new mathematics of the living world</i> . Nueva York: John Wiley.					
	2	Carpenter, T. P., Franke, M. L., & Levi, L. (2003). <i>Thinking mathematically: Integrating arithmetic and algebra in elementary school</i> . Heinemann, 361 Hanover Street, Portsmouth, NH 03801-3912 (Paperback: \$24.50). Web site: <a href="http://www.heinemann.com">www.heinemann.com</a> .					
	3	Struik, D. J. (Ed.). (1969). <i>A source book in mathematics, 1200-1800 (Vol. 11)</i> . Harvard University Press.					
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<b>Course Content</b>	Basic expressions and operations for natural numbers, integers, quotients, real and fractions. Set theory and LCM and GCD, Prime factorization, line equation, Parabola, Quadratic equations, inequality, real word problems and word's questions						
<b>Methods and Techniques Used in the Course</b>	Communications and writing method in the class, taking the assignments, offering the related videos and discuss about all contents according to the last developments.						
	<ol style="list-style-type: none"> <li>1. Different kind of sets, Natural numbers and operation on this set, multiplication, addition, subtraction and divisions, long division</li> <li>2. Integers, basic algebraic operations on integers, demonstration of numbers on real line, fractions</li> <li>3. Definition of set, operations on set, intersection, union, complementary, Venn diagram</li> <li>4. Prime numbers, prime factorizations, GCD, Greatest common divisor, set of divisor and techniques of dividing</li> <li>5. LCM, least common multiple, finding the common divisor for fractions, applying LCM and GCD in simplifying the algebraic expression</li> <li>6. Location of the point on the plane, ordered pairs, line equation, slope, parallel lines, orthogonality, line equation, distance formula, midpoint formula</li> <li>7. Simple inequality of the first order, techniques of solution, demonstration of answers,...</li> <li>8. Solving Quadratic equation by deterministic formula, split the expression and using different methods, study of solutions</li> <li>9. X-intercept, Y-intercept, vertex, Canonical point, concavity, sketching the parabola</li> <li>10. Relations and mapping, definition of function, domain, range, properties of functions and their shapes,...</li> <li>11. Composition of functions, operations on composition, algebraic operations on functions, discussion on domain</li> <li>12. Finding the equation related to the given question, analysing the question, finding the right method, economical questions, profit, revenue, bounds, coupon</li> <li>13. Collecting data, questionnaires, sampling and random sample method, population,...</li> </ol>						