



UNIVERSITI TEKNOLOGI MARA

MAT081: MATHEMATICS I (BASIC)

Course Name (English)	MATHEMATICS I (BASIC) APPROVED				
Course Code	MAT081				
MQF Credit	4				
Course Description	This course consists of basic topics covered in KBSM level. The topics are number system, straight lines, solving equations (linear and quadratic), trigonometry and introductions to differentiation and integration. This course will prepare them for a diploma program.				
Transferable Skills	1. Ability to apply basic knowledge of mathematics. 2. Ability to identify, interpret and formulate to solve mathematical problems.				
Teaching Methodologies	Lectures, Tutorial				
CLO	CLO1 Identify the concepts, operations and techniques of real numbers and fractions, linear and quadratic equation, trigonometric problems, differentiation and integrals. CLO2 Solve problems related to fractions, coordinate geometry, simultaneous equations, linear and quadratic equation, trigonometric problems, differentiation and integrals. CLO3 Construct equation in coordinate geometry problems.				
Pre-Requisite Courses	No course recommendations				
Reading List	<table><tr><td>Recommended Text</td><td>• Nor Azura Md Ghani 2006, <i>Basic Mathematics 1A</i>, McGraw Hill Malaysia [ISBN: 983-3219-330]</td></tr><tr><td>Reference Book Resources</td><td>• Chew Su Lian, Khoo Ee Sin, Moy Wah Goon, Ooi Soo Huat, Rohaiza Ramli 2006, <i>Additional Mathematics for KBSM</i>, Nur Niaga Sdn. Bhd. Malaysia [ISBN: 978983426331] • Ron Larson 2013, <i>Algebra and Trigonometry</i>, Thomson Brooks/Cole [ISBN: 1-285-05135-1] • Howard Anton, Irl C. Bivens, Stephen Davis 2012, <i>Calculus</i>, Wiley [ISBN: 1118137922] • Siew Wui Chin, Ah Geok Tan, Kim Soon Tey 2013, <i>STPM Text Mathematics (M)</i>, 4,5, Penerbitan Pelangi Sdn. Bhd. Malaysia [ISBN: 9789830059631]</td></tr></table>	Recommended Text	• Nor Azura Md Ghani 2006, <i>Basic Mathematics 1A</i> , McGraw Hill Malaysia [ISBN: 983-3219-330]	Reference Book Resources	• Chew Su Lian, Khoo Ee Sin, Moy Wah Goon, Ooi Soo Huat, Rohaiza Ramli 2006, <i>Additional Mathematics for KBSM</i> , Nur Niaga Sdn. Bhd. Malaysia [ISBN: 978983426331] • Ron Larson 2013, <i>Algebra and Trigonometry</i> , Thomson Brooks/Cole [ISBN: 1-285-05135-1] • Howard Anton, Irl C. Bivens, Stephen Davis 2012, <i>Calculus</i> , Wiley [ISBN: 1118137922] • Siew Wui Chin, Ah Geok Tan, Kim Soon Tey 2013, <i>STPM Text Mathematics (M)</i> , 4,5, Penerbitan Pelangi Sdn. Bhd. Malaysia [ISBN: 9789830059631]
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Article/Paper List	This Course does not have any article/paper resources				
Other References	This Course does not have any other resources				