



UNIVERSITI TEKNOLOGI MARA

MAE574: ENGLISH FOR THE TEACHING OF MATHEMATICS (ETM)

Course Name (English)	ENGLISH FOR THE TEACHING OF MATHEMATICS (ETM) APPROVED
Course Code	MAE574
MQF Credit	3
Course Description	This course is designed to enhance the English communication skills of Mathematics teachers to enable them to teach effectively using English as the medium of instruction. It will be categorized into three areas of competencies, which consists of communication skills enhancement in the classroom such as explaining, discussing and interacting; proper language usage for teaching mathematics using accurate terminologies and language development ideas to encourage the continuous interest in Mathematics teaching. The first area of competency aims to enhance the communication skills in the classroom, especially through class lessons and activities. In the second area of competency, the teacher will develop proper language for teaching in the classroom through the correct usage of related terminologies. Finally, the third area will be focusing on communication development with peers in the wider discourse community regarding Mathematical issues in mathematics education.
Transferable Skills	<ul style="list-style-type: none">- Demonstrate ability to identify and articulate self skills, knowledge and understanding confidently and in a variety of contexts.- Demonstrate practical and contemporary knowledge of relevant professional, ethical and legal frameworks.- Demonstrate enthusiasm, leadership and the ability to positively influence others.- Demonstrate professional skills, knowledge and competencies.
Teaching Methodologies	Lectures, Discussion, Presentation
CLO	CLO1 Demonstrate appropriate communication strategies in Mathematics classroom CLO2 Apply specific vocabulary, syntax and discourse features of Mathematics in English CLO3 Analyse mathematical issues in mathematics classroom
Pre-Requisite Courses	No course recommendations
Topics	
1. Communication Skills Enhancement in the Classroom 1.1) the components 1.2) the strategies of communication	
2. Language for Teaching Mathematics Using Accurate Terminologies 2.1) terminologies 2.2) syntax 2.3) discourse	
3. Analyse mathematical issues in Mathematics classroom. 3.1) mathematical issues 3.2) current and future plan	

Assessment Breakdown	%
Continuous Assessment	100.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Assigned Task	30%	CLO1
	Group Project	Project	40%	CLO3
	Test	Test	30%	CLO2

Reading List	Recommended Text	Reference Book Resources
	<ul style="list-style-type: none"> • Johnston-Wilder, S., Lee, C., & Pimm, D. (Eds.) 2016, <i>Learning to Teach Mathematics in the Secondary School: A companion to school experience.</i>, Taylor & Francis. • DeCapua, Andrea 2017, <i>Grammar for Teachers.</i>, Springer International Publishing • Moschkovich, J. N., Wagner, D., Bose, A., Mendes, J. R., & Schütte, M. (Eds.) 2018, <i>Language and Communication in Mathematics Education: International Perspectives.</i>, Springer. • Pimm, D. 2019, <i>Routledge Revivals: Speaking Mathematically (1987): Communication in Mathematics Classrooms (Vol. 4).</i>, 4 Ed., Routledge. 	<ul style="list-style-type: none"> • Saad, N. A & Ghani, S. A. 2010, <i>Teaching Mathematics in Secondary Schools: Theories and Practices.</i>, Universiti Pendidikan Sultan Idris • Yeping L., Edward A. S. & Shiqi L., 2014, <i>Transforming Mathematics Instruction: Multiple Approches and Practices.</i>, Springer. • Rivera, F. 2013, <i>Teaching and Learning Patterns in School Mathematics (Psychological and Pedagogical Considerations)</i>, Springer Netherlands • Zhu, Xudong, Zeichner, Kenneth 2013, <i>Preparing Teachers for the 21st Century.</i>, Springer-Verlag Berlin Heidelberg. • Vandebrouck, Fabrice 2013, <i>Mathematics Classrooms: Students' Activities and Teachers' Practices.</i>, Sense Publishers
Article/Paper List	This Course does not have any article/paper resources	
Other References	<ul style="list-style-type: none"> • Website ESOL examinations 2011, <i>Teaching Maths through English – a CLIL approach.</i> , University of Cambridge, UK https://www.unifg.it/sites/default/files/allegatiparagrafo/21-01-2014/teaching_maths_through_clil.pdf 	