

UNIVERSITI TEKNOLOGI MARA MAE575: METHODOLOGY IN TEACHING MATHEMATICS

Course Name (English)	METHODOLOGY IN TEACHING MATHEMATICS APPROVED		
Course Code	MAE575		
MQF Credit	3		
Course Description	As the era of reform education continues, it becomes essentially important that we develop a conceptually rich understanding of what effective mathematics teaching is and how to foster it. A major part of this course centers on the teaching process itself and takes into account many inextricably linked ideas, including the ways in which student learns mathematics, the nature of mathematics to be taught, underlying social condition, and the many constraints placed directly or indirectly on classroom teachers. The content of this course is designed, basically, to perturb teachers' thinking, provide a vision of teaching and ideas to implement these visions.		
Transferable Skills	Communication skill		
Teaching Methodologies	Lectures, Microteaching, Discussion, Presentation		
CLO	CLO1 Apply theories of teaching and learning in Mathematics. CLO2 Explain Mathematics curriculum, contents and instruction. CLO3 Organize Mathematical pedagogy and instruction in classroom setting. CLO4 Develop the materials that connect real-life experience with mathematics teaching and learning.		
Pre-Requisite Courses	No course recommendations		
Topics			
1. Learning to Teach Mathematics [Content knowledge (CK), Pedagogical Knowledge (PK), Pedagogical Content Knowledge (PCK), Teacher Knowledge Model] 1.1) N/A			
2. Theories in Teacl 2.1) N/A	2. Theories in Teaching and Learning Mathematics (Behaviorism, Cognitivism and Constructivism) 2.1) N/A		
3. An Analysis of Mathematics Curriculum 3.1) N/A			
4. Planning a Mathe	4. Planning a Mathematical Instruction 4.1) N/A		
5. Mathematics Pedagogies 5.1) N/A			
6. Assessments in Teaching Mathematics 6.1) N/A			

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Start Year : 2019

Review Year : 2021

Assessment Breakdown	%
Continuous Assessment	100.00%

Details of				
Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Group Project	n/a	30%	CLO4
	Practical	Microteaaching	30%	CLO3
	Presentation	n/a	20%	CLO2
	Test	n/a	20%	CLO1

Reading List	This Course does not have any book resources
Article/Paper List	This Course does not have any article/paper resources
	 Book Saad, N. A & Ghani, S. A. 2010, Teaching Mathematics in Secondary Schools: Theories and Practices, Universiti Pendidikan Sultan Idris Book G. Donald Allen, Amanda Ross 2017, Pedagogy and Content in Middle and High School Mathematics, Sense Publishers Book Noraini Idris 2005, Pedagogi Dalam Pendidikan Matematik, Utusan Publications & Distribution Sdn. Bhd

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