UNIVERSITI TEKNOLOGI MARA

MAT183: CALCULUS I

Course Name (English)	CALCULUS I `APPROVED`
Course Code	MAT183

MQF Credit	3

Course Description	This is the first course in the calculus series. It starts with topics on functions and graphs, limits and continuity, techniques of differentiation and integration and its applications.

Transferable Skills	Demonstrate ability to analyse issues/problems from multiple angles and make suggestions. Demonstrate ability to investigate problems and provide effective solutions.

Teaching Methodologies	Lectures, Lab Work, Tutorial, Presentation, Collaborative Learning

CLO		
	CLO1	Apply the properties of function, limit and continuity, techniques in differentiation and integration.
	CLO2	Analyse appropriate graph of polynomial and rational function to solve related mathematical problems using calculus.
	CLO3	Demonstrate active collaboration with team members in identify problems related to application of differentiation.

Pre-Requisite Courses	CALCULUS I (MAT183)

Reading List	Recommended Text	• James Stewart,Lothar Redlin,Saleem Watson,Daniel K. Clegg, *Calculus: Early Transcendentals, International Metric Edition*, 9 Ed. [ISBN: 9780357113516]
	Reference Book Resources	• Howard Anton, Irl Bivens, Stephen Davis 2019, *Calculus*, 11 Ed., John Wiley & Sons [ISBN: 9781119244912]
		• Shamsatun Nahar Ahmad, Farah Suraya Md Nasrudin, Muhammad Yassar Yusri 2020, *Fundamentals Of Calculus*, 1 Ed., UiTM Cawangan Johor [ISBN: 9789673636044]
		• Joel R. Hass,Christopher E. Heil,Maurice D. Weir 2019, *Thomas' Calculus: Early Transcendentals in SI Units*, 14 Ed., Pearson [ISBN: 9781292253114]
		• RON. EDWARDS LARSON (BRUCE.),Bruce (The Pennsylvania State University Edwards, The Behrend College),Bruce (University of Florida) Edwards 2018, *Calculus: Early Transcendental Functions, International Metric Edition*, 7 Ed., Cengage Learning [ISBN: 9781337782432]
		• Robert Alexander Adams,Christopher Essex 2019, *Calculus*, 6 Ed., Prentice Hall [ISBN: 9780321549280]
		• Dale Varberg,deceased, Edwin Purcell,Steve Rigdon 2017, *Calculus*, 9 Ed., Pearson [ISBN: 9781292039671]

Article/Paper List	This Course does not have any article/paper resources
Other References	This Course does not have any other resources