UNIVERSITI TEKNOLOGI MARA

MAT133: PRE CALCULUS

Course Name (English)	PRE CALCULUS APPROVED
Course Code	MAT133

MQF Credit	3

Course Description	Calculus is a main component in learning mathematics. This subject covers the additional algebraic and trigonometric skills needed by the students before they venture into the world of calculus. It consists of four major parts: coordinates, graphs and lines; functions; systems of equations and inequalities; and trigonometry.

Transferable Skills	Demonstrate ability to apply creative, imaginative and innovative thinking and ideas to problem solving. Demonstrate ability to understand problems and provide solutions.

Teaching Methodologies	Lectures, Lab Work, Tutorial

CLO	
	CLO1 Express the basic concepts of coordinates, graphs and lines, functions, systems of equations and inequalities, and trigonometry.
	CLO2 Display the results with graphs of functions using ICT tools.
	CLO3 Apply appropriate method and procedures related to trigonometric problems.

Pre-Requisite Courses	PRE CALCULUS (MAT133)

Reading List	Recommended Text	Ling Siew Eng 2018, *Foundation Mathematics*, UiTM Press [ISBN: 9789673635139]
	Reference Book Resources	Teoh Yeong Kin 2024, *Pre Calculus: Topical practice*, 5th Ed. [ISBN: 9789671849187]
		Ron Larson 2021, *Algebra and Trigonometry*, 11 Ed., Cengage Learning [ISBN: 9780357645895]
		Ireen Munira Ibrahim, Muhammad Syawal Abd Halim, Siti Salihah Shaffie, Anisah Abdul Rahman, Ezzah Suraya Sarudin 2021, *Pre Calculus Practice Workbook*, 2nd Ed., Bootstrap Resources [ISBN: 9789672613107]
		Richard N. Aufmann, Joanne Lockwood 2020, *Mathematics: Journey from Basic Mathematics through Intermediate Algebra*, Cengage Learning [ISBN: 9780357032671]
Article/Paper List	This Course does not have any article/paper resources	
Other References	This Course does not have any other resources	