

Module title: CALCULUS 1

Module Code:

Module Credit: 3

Term: First Term 1397-98

Lecturer: Mojtaba Bakherad
(Mojtaba.bakherad@yahoo.com)

Lecturing time: Sat. (9:30-11) and Mon. (9:30)

Assessments: 40% mid-term 1 exam
60% final exam

Class attendance: **REGULAR ATTENDING IS IMPORTANT AND EACH SESSION YOUR ATTENDANCE WILL BE CHECKED**

References: CALCULUS
JAMES STEWART
McMASTER UNIVERSITY

Module Subjects:

1st. week: FUNCTIONS AND MODELS

2nd. week: FUNCTIONS AND MODELS

3rd. week: LIMITS AND DERIVATIVES

4rd week: LIMITS AND DERIVATIVES

5th. week: DIFFERENTIATION RULES

6th. week: DIFFERENTIATION RULES

7th. week: APPLICATIONS OF DIFFERENTIATION

8th. week: APPLICATIONS OF DIFFERENTIATION

9th. week: INTEGRALS

10th. Week: APPLICATIONS OF INTEGRALS

11th. week: APPLICATIONS OF INTEGRALS

12th. week: TECHNIQUES OF INTEGRATION

13th. week: FURTHER APPLICATIONS OF INTEGRATION

14th. week: INFINITE SEQUENCES AND SERIES

15th. week: Representations of Functions as Power Series

16th. week: Applications of Taylor Polynomials