



المادة: تفاضل وتكامل

المرحلة: الاولى

عدد الساعات: 5 ساعات

عدد الوحدات: 8 وحدات

ت	المفردات الدراسية	عدد الأسابيع
1	Numbers introduction of real number	
2	Function-Special function	
3	Definition of the limit of the function	
4	Theorems on limits (with proofs)	
5	continuity	
6	Theorems on continuity (with proofs)	
7	The derivative	
8	Extremes values-Roll Theorem	
9	Half-year Break	
10	The definite integral, Riemans sum	
11	Mean value theorem for definite integral	
12	Numerical integral ,trapezoidal rule ,Simpson rule	
13	Application of definite integrals, plan areas	
14	Lengths of curves in the plan &Area of surface of revolution	
15	Volume of solids of revolution-disk &washers	
16	The exponential function	
17	Exponential & Logarithmic function with bases other than e	
18	Trigonometric functions	
19	Inverse Trigonometric functions	
20	Hyperbolic functions	
21	Inverse Hyperbolic functions	
22	Methods integration	
23	Methods integration	