	Ministry of Higher Education and Scientific Research - Iraq Al-Mustaqbal University College Of Sciences Department of Artificial Intelligence	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية				
Module Title	GENERAL MATHEMATICS		**Module Delivery**	
Module Type	BASIC		**-Theory Lecture** **-Lab** **-PracticalSeminar**	
Module Code	UOMU0341013			
ECTS Credits	6			
SWL (hr/sem)	200			
Module Level	1	**Semester of Delivery**	1	
Administering Department		**College**		
Module Leader	Dr. Fayez Ali Rashid	**e-mail**		
Module Leader's Acad. Title	Lecture	**Module Leader's Qualification**		
Module Tutor	None	**e-mail**	None	
Peer Reviewer Name		**e-mail**		
Review Committee Approval		**Version Number**		

Relation With Other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	. The student learns the meaning Inequality . .recognize the domain and range of functions .2 .To recognize the types of functions .3 .to use derivatives to find some applications .4 .to analyze the limit and applied in calculating the limit function values .5 .recognize the integration .6 .learn to integrate applications .7 .The student knows the hyperbolic functions and derivative and integration .8 The student knows the exponential and logarithmic functions and derivative .9 .and integration .The student distinguishes between differentiation and integration .10 . The student can find a part integration and Partial Fractions .11 .recognize the series Taylor .12 .The student understands the meaning of conic sections .13 .The student knows the partial derivatives .14 .The student knows the concept of matrices .15
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	Recognize how the Inequality and equation . List the various terms associated with the solution of inequalityif contain .2 .absolute value Summarize what is meant by limts .3 .Discuss the derivative of the functions .4 .Describe the Integrable .5 .Discuss the Taylor series .6 .Explain the method of integrals .7
Indicative Contents المحتويات الإرشادية	.Indicative content includes the following The meaning of the function, types of functions, function name[15 hrs], derivatives, applications of derivatives, the limits[15hrs], integration, methods of integration, the basic theory of integration spaces account and sizes of functions logarithmic and exponential functions to find the complementary values using tables[15 hrs], functions, hyperbolic or inverse trigonometric functions[15 hrs], taylor series [10 hrs] , matrix [5hrs.[
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The main strategy to be adopted in delivering this unit is to encourage students to engage in exercises, while at the same time improving and expanding their critical thinking skills. This will be achieved through interactive chapters, exercises and questions within the lecture and by thinking about the quality of some methods that include some sampling activities that are of interest to students.

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	102	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	7
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	98	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	7
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	200		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	1	10% (10)	5	LO # 1 and 3
	Practical Seminar(Lab).	2	15% (15)	Continuous	LO # 2 , 4 and 5
Summative assessment	**Midterm Exam**	1 hr	15% (15)	14	LO # 1 to 5
	Final Exam	3hr	60% (60)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week 1	real numbers and inequalities
Week 2	Solution of inequality with absolute value
Week 3	Domain and range
Week 4	limits and continuity
Week 5	derivatives
Week 6	Chain Rule
Week 7	Trigonometric functions
Week 8	Exponential functions and logithums

Week 9	series Taylor
Week 10	partial derivatives
Week 11	the integration
Week 12	Integration by part
Week 13	Integration byTabular
Week 14	matrices
Week 15	**Final Exam**

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	
Week 8	
Week 9	
Week 10	
Week 11	
Week 12	
Week 13	

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts		Yes
Recommended Texts		No

Websites	

APPENDIX:

GRADING SCHEME مخطط الدرجات				
Group	**Grade**	التقدير	**Marks (%)**	**Definition**
Success Group (50 - 100)	**A** - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	مقبول بقرار	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note:

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.