







# مواصفات مقرر: رياضيات عامة.

**Course Specification of: General Mathematics.** 

G	المعلومات العامة عن المقرر General information about the course					
.1	اسم المقرر Course Title	General	Mathema	tics	ä	رياضيات عام
.2	رمز المقرر ورقمه Course Code and Number	PNR 103				
		(	الساعات المعتمدة Credit Hours			الإجمالي
.3	الساعات المعتمدة للمقرر Credit Hours	تدریب سمنار/تمارین عملیِ محاضرات Lecture Practical Seminar/Tutorial Training			ردٍ جِهائي Total	
		2	ŀ	1	-	3
.4	المستوى والفصل الدراسي Study Level and Semester	First Yea	r – First Se	emesterJ	ل _ القصل الأو	المستوى الأوا
.5	المتطلبات السابقة المقرر (إن وجدت) Pre-requisites (if any)	None				لايوجد.
.6	المتطلبات المصاحبة (إن وجدت) Co-requisites (if any)	None				لايوجد.
.7	البرنامج الذي يدرس له المقرر Program (s) in which the course is offered	متطلب كلية				
.8	لغة تدريس المقرر Language of teaching the course	ARABIC				عربي.
.9	نظام الدراسة Study System	Semeste	r			فصلي.
.10	مكان تدريس المقرر Location of teaching the course	Faculty 1	Building			مبنى الكلية.
.11	اسم معد(و) مواصفات المقرر Prepared by	Dr. Oman	r Abdulazi	z Alabsi	عزيز العبسي.	د. عمر عبدال
.12	تاريخ اعتماد مجلس الجامعة Date of Approval					2020

وصف المقرر Course Description				
وصف المقرر ر بالإنجليزية	وصف المقرر ر بالعربية			
The main goal of the course is introducing the students to the principles and basic applications of differential and integral calculus and the first – order differential equations and their applications in the field of Petroleum and Natural Gas Engineering.	والتطبيقات الأساسية لحساب التفاضل والتكامل والمعادلات			

## مخرجات تعلم المقرر (Course Intended Learning Outcomes (CILOs)مخرجات

بعد الانتهاء من دراسة المقرر سوف يكون الطالب قادرا على أن: After completing the course, the student will be able to:

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Dean of the Faculty Assoc.Prof. Bassim AlKhirbash









a1.	Define the basic concepts of the differential calculus	- a1
	and list all differentiation rules of functions.	
a2.	Understand the difference between the definite and	-a2
	indefinite integral and explain the integration	
	methods.	
a3.	Define the differential equations of first – order and	-a3
	list the different methods for solving differential	
	equations and their applications to real life problems.	
<b>b1</b> .	Find and interpret the derivatives of functions using	-b1
	the differentiation rules.	
<b>b2.</b>	Apply the best method to solve problems of	- b2
	integration.	
<b>b3.</b>	Use the best procedure to solve differential	<b>b3.</b>
	equations of first – order.	
c1.	Apply mathematical methods to solve problems	- c1
	in the field of Petroleum and Natural Gas	
	Engineering, involving differential and integral	
	calculus and differential equations.	
d1.	Work effectively within team to solve the	- d1
	assignments.	

	مواءمة مخرجات تعلم المقرر مع مخرجات التعلم للبرنامج:					
Alignm	ment of CILOs (Course Intended Learning Outcomes) to PILOs (Progra	am Inter				
	مخرجات التعلم المقصودة من المقرر	خرجات التعلم المقصودة من البرنامج				
	(Course Intended Learning Outcomes)	(Program Intended Learning Outcomes)				
			(تكتب جميع مخرجات البرنامج كما هي رمزا ونصا			
a1	Define the basic concepts of the differential calculus and					
	list all differentiation rules of functions.					
a2	Understand the difference between the definite and		Demonstrate the concepts of basic science			
	indefinite integral and explain the integration methods.	<b>A1</b>	and mathematics related to field of			
	Define the differential equations of first — order and list the		petroleum engineering.			
a3	different methods for solving differential equations and					
	their applications to real life problems.					
b1	Find and interpret the derivatives of functions using the					
1 101	differentiation rules.		Use the principles of engineering in			
<b>b2</b>	Apply the best method to solve problems of integration.	<b>B2</b>	developing solutions to practical petroleum engineering and select appropriate			
1.2	Use the best procedure to solve differential equations of		computer software for modeling.			
<b>b</b> 3	first – order.		compared software for moderning.			
	Apply mathematical methods to solve problems in the					
	field of Petroleum and Natural Gas Engineering,	~-				
c1	involving differential and integral calculus and	C3				
	differential equations.					
	Work effectively within team to solve the		Collaborate effectively within			
d1	_	D1	multidisciplinary teams under stressful			
	assignments.		environment and within constraints.			

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الجمهوريسة اليمنسية وزارة التعليم العالمي والبحث العلمي جـــــامعة صـــــنعاء كلية البترول والموارد الطبيعية

	التعلم والتقويم	طم باستراتيجيات التعليم و	مواءمة مخرجات التع			
Alignn	ment of CILOs to Teaching and Assessment St	trategies				
	ستراتيجية التعليم والتعلم والتقويم:	المقدر (المعلوف مالفهم) وال	أه لا و مواعمة مخرجات تعام			
First:	Alignment of Knowledge and Understandin	· · · · · · · · · · · · · · · · · · ·	رود. مورجت محربت عم			
	مخرجات المقرر/ المعرفة والفهم	إستراتيجية التعليم والتعلم	إستراتيجية التقويم			
	Knowledge and Understanding CILOs	Teaching Strategies	Assessment Strategies			
a1	Define the concepts of the function and the derivative and list all differentiation rules of functions.	f Cooperative learning Problem solving	Written Assignments Quizzes Examination ( Final-			
a2	Understand the difference between the definite and indefinite integral and explain the integration methods.	=	Midterm)			
a3	Define the differential equations of first — order and list the different methods for solving differential equations and their applications to real life problems.					
Secon	ستراتيجية التدريس والتقويم: d: Alignment of Intellectual Skills CILOs	, ,	<u> </u>			
	مخرجات المقرر/ المهارات الذهنية	إستراتيجية التعليم والتعلم	إستراتيجية التقويم			
	Intellectual Skills CILOs	Teaching Strategies	Assessment Strategies			
b1	Find and interpret the derivatives of functions using the differentiation rules.	Lecture Cooperative learning Problem solving	Written Assignments Quizzes Examination (Final-			
<b>b2</b>	Apply the best method to solve problems of integration.	Open Discussion Self-Learning	Midterm)			
<b>b</b> 3	Use the best procedure to solve differential equations of first – order.	J				
	عملية) باستراتيجية التدريس والتقويم:	المقرر (المهارات المهنية وال	ثالثًا:مواءمة مخرجات تعلم			
Third	: Alignment of Professional and Practic	· · · · · · · · · · · · · · · · · · ·	,			
	مخرجات المقرر/ المهارات المهنية والعملية	إستراتيجية التعليم والتعلم	إستراتيجية التقويم			
P	Professional and Practical Skills CILOs	Teaching Strategies	Assessment Strategies			
c1	Apply mathematical methods to solve problems in the field of Petroleum and Natural Gas Engineering, involving differential and integral calculus and differential equations.	Lecture Cooperative learning Problem solving Open Discussion Self-Learning	Written Assignments Quizzes Examination ( Final- Midterm)			
	differential equations.					
رابعا: مواءمة مخرجات تعلم المقرر (المهارات العامة) باستراتيجية التدريس والتقويم:						
Fourth: Alignment of Transferable (General) Skills CILOs						
Fourt	h: Alignment of Transferable (General)	) Skills CILOs				

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Т	Transferable (General) Skills CILOs	Teaching Strategies	Assessment Strategies
d1	Work effectively within team to solve the assignments.	Web searching Using Library Self-Learning Group Projects	Oral Exam Project evaluation

Co	محتوى المقرر Course Content						
Theore	Theoretical Aspect موضوعات الجانب النظري						
الرقم Order	الموضوعات الرئيسة/ الوحدات Topic List / Units	الموضوعات الفرعية Sub Topics List	عدد الأسابيع Number of Weeks	الساعات الفعلية Contact Hours	رموز مخرجات التعلم للمقرر (CILOs)		
1	Pre-calculus Review	Sets – Real numbers line – Inequalities – Intervals	1	2	a1, c1, d1		
2	Functions	Polynomial, rational, irrational, exponential, logarithmic, trigonometric and Inverse trigonometric functions.  Applications of real functions in geological sciences	2	4	a1, c1, d1		
3	Differentiation	Rules of differentiation – Implicit differentiation.	1	2	a1, b1, c1		
4	Applications of differentiation	Decreasing and increasing functions  -Related rates – differential and linear approximation – Extreme of functions.	2	4	a1,b1,c1,d1		
5	Indefinite and definite integrals	Antiderivatives, Properties of integrals, integration by Substitution.	2	4	a2,b2,c1,d1		
6	Midterm Exam	Midterm Exam	1	2	a1,a2, b1,b2,c1		
7	Methods of integration	Integration by parts, Integration by partial fractions. Numerical method to evaluate integrations (Trapezoidal Method).	2	4	a2,b2,c1,d1		
8	Differential Equations	Methods of solving First – order differential equations and their applications	3	6	a3, b3, c1, d1		
	عدد الأسابيع والساعات الفعلية عدد الأسابيع والساعات الفعلية Number of Weeks /and Contact Hours Per Semester						

Practical Aspect (if any) (الموضوعات العملية (إن وجدت)					
الرقم	التجارب العملية/ التمارين / تدريبات	عدد الأسابيع	الساعات	رموز مخرجات	

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Order	Practical / Exercises/Tutorials topics	Number of Weeks	الفعلية Contact Hours	التعلم Course ILOs
1	Sets – Real numbers line – Inequalities – Intervals	1	2	a1, c1, d1
2	Polynomial, rational, irrational, exponential, logarithmic, trigonometric and Inverse trigonometric functions.  Applications of real functions in geological sciences	2	4	a1, c1, d1
3	Rules of differentiation – Implicit differentiation.	1	2	a1, b1, c1
4	Decreasing and increasing functions—Related rates — differential and linear approximation — Extreme of functions.	2	4	a1, b1, c1, d1
5	Antiderivatives, Properties of integrals,	2	4	a2, b2, c1, d1
6	Integration by Substitution, Integration by parts.	1	2	a1,a2,b1,b2,c1
7	Integration by partial fractions. Numerical method to evaluate integrations (Trapezoidal Method).	2	4	a2, b2, c1, d1
8	Methods of solving First – order differential equations and their applications	3	6	a3, b3, c1, d1
	إجمالي الأسابيع والساعات الفعلية Number of Weeks /and Contact Hours Per Semester	14	28	

# استراتيجيات التعليم والتعلم Teaching Strategies

- Lectures
- Cooperative learning
- Problem solving
- Self-Learning
- Open Discussion
- Web searching
- Using Library
- Group Projects

	الأنشطة والتكليفات Fasks and Assignments				
م No	التكليف/ الواجب Assignments/ Tasks	نوع التكليف (فردي/ تعاوني)	الدرجة المستحقة Mark	أسبوع التنفيذ Week Due	مخرجات التعلم CILOs (symbols)
1					
	إجمالي الدرجةTotal Score				

Learning Assessment تقييم التعلم					
الرقم No.	أنشطة التقييم Assessment Tasks	أسبوع التقييم Week due	الدرجة Mark	نسبة الدرجة إلى الدرجة النهائية Proportion of Final Assessment	مخرجات التعلم CILOs (symbols)

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1	Tasks and Assignments	During classes	20	13.4%	a1, a2, a3, b1, b2 b3 c1 d1
2	كوز(1) Quiz	<b>W</b> 6	5	3.3%	a1, b1, c1
3	Midterm Exam	W9	30	20%	a1, a2, b1, b2,
4	<b>كوز(2)</b>	W12	5	3.3%	a2,a3,b2,b3, c1
5	Tutorial	During classes	20	13.4%	a1, a2, a3, b1,
6	Final Exam (theoretical)	W16	70	46.6%	a1, a2, a3, b1,
	الإجمالي Total	150	100.00%		

Learning Resources مصادر التعلم
توثق المراجع حسب نظام APA (اسم المؤلف، سنة النشر، اسم الكتاب، دار النشر، بلد النشر).
Required Textbook(s) (المراجع الرئيسة (لا تزيد عن مرجعين)
1- J. Stewart, 2003, Calculus, Early Transcendentals, 5 <sup>th</sup> Edition, Brooks/Cole Pub. Comp., USA.
2- Thomas. G; Finney, R., 1998, Calculus and analytical geometry, 5 <sup>th</sup> Edition, Addison-Wesely USA.
Essential References المراجع المساندة
NONE
المصادر الإلكترونية ومواقع الإنترنت.Electronic Materials and Web Sites etc
NONE

Cou	الضوابط والسياسات المتبعة في المقرر arse Policies
	Class Attendance: <u>حضور الفعاليات التعليمية</u>
_	- Students are expected to attend classes regularly and promptly.
1.	- The attendance should not be less than 80%.
	- If the student has been absent, he is responsible for finding out any missed material by consulting other
-	students or going to the professor's office hours.
2.	Tardy: الحضور المتأخر
4.	- Attendance and arriving on time for the class are necessary. If the student is late, he will be prevented from class.
-	
3.	Exam Attendance/Punctuality: ضوابط الامتحان - According to the rules the student gets absent in the exam of the course.
	Assignments & Projects: التعيينات والمشاريع
4.	- Papers survey or projects should be submitted by the time detriment by the professor.
	Cheating: الغثين
5.	- According to the rules, cheating is a serious offense and will always result in an imposition of a penalty.
٥.	The penalties that can be started from the range of canceling the result of the course to canceling the
	student's admission.
_	Plagiarism: الانتحال
6.	- Plagiarism is a serious offense and will always result in an imposition of a penalty. The penalties that can
	be started by making a zero mark for the work.
_	Other policies: سیاسات اُخری
7.	- The student should by a commitment by the rules inside class and university. Therefore, he is expected to
	show respect for his classmate, instructors &others.

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Matary









الجمهوريسة اليمنسية وزارة التعليم العالمي والبحث العلمي جـــــامعة صــــنعاء كلية البترول والموارد الطبيعية

متطلب كلية

قسم/ برنامج Department: العام الجامعي: 2019- 2020م

# خطة مقرر: رياضيات عامة.

Course Plan (Syllabus): General Mathematics.

Information about Faculty Member Responsible for the Course معلومات عن أستاذ المقرر							
الاسم	د. عمر عبدالعزيز العبسي	الساعات المكتبية (أسبوعيا)					
Name	Dr. Omar Abdulaziz Alabsi	Office Hours					
المكان ورقم الهاتف	772 815 749	السبت	الأحد	الاثنين	الثلاثاء	الأربعاء	الخميس
Location & Telephone No.		SAT	SUN	MON	TUE	WED	THU
البريد الإلكتروني E-mail	Omaralabsi14@gmai.com						

(	General information about the course	لة عن المقر	طومات عاه	<b>ل</b> م		
.1	اسم المقرر Course Title	General	General Mathematics			رياضيات عامة
.2	رمز المقرر ورقمه Course Code and Number	PNR 103				
			CreditHou	الساعات المعتمدة Irs	١	الإجمالي
.3	الساعات المعتمدة للمقرر CreditHours	محاضرات Lecture	عملي Practical	سمنار/تمارین Seminar/Tutorial	تدریب Training	ر جمعاني Total
		2	-	1		3
.4	المستوى والفصل الدراسي Study Level and Semester	First Year – First Semester. الفصل الأول – الفصل الأول.			المستوى الأول	
.5	المتطلبات السابقة للمقرر Pre-requisites	None				لايوجد.
.6	المتطلبات المصاحبة (إن وجدت)Co-requisite	None				لايوجد.
.7	البرنامج الذي يدرس له المقرر Program (s) in which the course is offered					متطلب كلية
.8	لغة تدريس المقرر Language of teaching the course	ARABIO				عربي.
.9	مكان تدريس المقرر Location of teaching the course	Faculty 1	Building			مبنى الكلية.

## وصف المقرر Course Description

The main goal of the course is introducing the students to the principles and basic applications of differential and integral calculus and the first – order differential equations and their applications in the field of Petroleum and Natural Gas Engineering.

الهدف الرنيسي من المقرر هو تعريف الطلاب على المبادئ والتطبيقات الأساسية لحساب التفاضل والتكامل والمعادلات التفاضلية من الرتبة الأولى وتطبيقاتها في مجال هندسة البترول والغاز الطبيعي.

## مخرجات تعلم المقرر (CILOs) مخرجات تعلم المقرر

بعد الانتهاء من دراسة المقرر سوف يكون الطالب قادرا على أن: After completing the course, the student will be able to:

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محتوى المقرر Course Content









a1.	Define the basic concepts of the differential calculus and list all differentiation rules of functions.	- a1
a2.	Understand the difference between the definite and indefinite integral and explain the integration methods.	-a2
a3.	Define the differential equations of first – order and list the different methods for solving differential equations and their applications to real life problems.	-a3
b1.	Find and interpret the derivatives of functions using the differentiation rules.	-b1
b2.	Apply the best method to solve problems of integration.	- b2
b3.	Use the best procedure to solve differential equations of first – order.	b3.
c1.	Apply mathematical methods to solve problems in the field of Petroleum and Natural Gas Engineering, involving differential and integral calculus and differential equations.	- c1
d1.	Work effectively within team to solve the assignments.	- d1

#### خطة تنفيذ الموضوعات النظرية Theoretical Aspect الو حدات الساعات الأسبوع الموضوعات التفصيلية ا**لرقم** Order (الموضوعات الرئيسة) الفعلية Week **Sub Topics** Due Units Con. H • Sets – Real numbers line – Inequalities – Intervals 2 1 **Pre-calculus Review** 1 Polynomial, rational, irrational, exponential, logarithmic, 2 **Functions** trigonometric and Inverse trigonometric functions. 2 4 Applications of real functions in geological sciences 3 1 2 **Differentiation** Rules of differentiation – Implicit differentiation. Decreasing and increasing functions – Related rates – Applications of 4 2 4 differential and linear approximation - Extreme of differentiation functions. Indefinite and Antiderivatives, Properties of integrals, integration by 5 2 4 Substitution. definite integrals 2 6 Midterm Exam Midterm Exam 1

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7

8

Methods of

integration

**Differential** 

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Method).

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Integration by parts, Integration by partial fractions.

Numerical method to evaluate integrations (Trapezoidal

Methods of solving First – order differential equations

Dean of the Development & Quality Assurance Center Assoc.Prof. Huda Al-Emad

2

3

4

6









	Equations	and their applications		
9	Final Exam		1	2
	Number of	عدد الأسابيع والساعات الفعلية Weeks /and Contact Hours Per Semester عدد الأسابيع والساعات الفعلية	15	30

Prac	فيذ موضوعات الجانب العمليtical / Training/ Tutorials/ Exercises Aspects	خطة تن	
الرقم Order	موضوعات العملي/ المهام / التمارين Practical/Tutorials/ Exercises Aspects	الأسبوع Week Due	الساعات الفعلية Cont. H
1	Sets – Real numbers line – Inequalities – Intervals	1	2
2	Polynomial, rational, irrational, exponential, logarithmic, trigonometric and Inverse trigonometric functions.  Applications of real functions in geological sciences	2	4
3	Rules of differentiation – Implicit differentiation.	1	2
4	Decreasing and increasing functions—Related rates – differential and linear approximation – Extreme of functions.	2	4
5	Antiderivatives, Properties of integrals,	2	4
6	Integration by Substitution, Integration by parts.	1	2
7	Integration by partial fractions. Numerical method to evaluate integrations (Trapezoidal Method).	2	4
8	Methods of solving First – order differential equations and their applications	3	6
	إجمالي الأسابيع والساعات الفعلية Number of Weeks /and Contact Hours Per Semester	14	28

# استراتيجيات التعليم والتعلم Teaching Strategies

- Lectures
- Cooperative learning
- Problem solving
- Self-Learning
- Open Discussion
- Web searching
- Using Library
- Group Projects

Ta	nsks and Assignments الأنشطة والتكليفات			
م No	التكليف/ الواجب Assignments	نوع التكليف (فردي/ تعاوني)	الدرجة المستحقة Mark	أسبوع التنفيذ Week Due
	إجمالي الدرجة Total Score		15/150 10/ 100	

## تقويم التعلم Learning Assessment

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الجمهوريسة اليمنسية وزارة التعليم العالمي والبحث العلمي جـــــامعة صـــــنعاء كلية البترول والموارد الطبيعية

م No	أساليب التقويم Assessment Method	موعد(أسبوع) التقويم Week Due	الدرجة Mark	الوزن النسبي% Proportion of Final Assessment
1	Tasks and Assignments	<b>During classes</b>	20	13.4%
2	کوز(1) Quiz	W6	5	3.3%
3	Midterm Exam	W9	30	20%
4	کوز(2) کوز	W12	5	3.3%
5	Tutorial	<b>During classes</b>	20	13.4%
6	Final Exam (theoretical)	W16	70	46.6%
	المجموعTotal		150	100 %

Learning Resources مصادر التعلم
توثق المراجع حسب نظام APA (اسم المؤلف، سنة النشر، اسم الكتاب، دار النشر، بلد النشر).
Required Textbook(s) (المراجع الرئيسة (لا تزيد عن مرجعين
1- J. Stewart, 2003, Calculus, Early Transcendentals, 5 <sup>th</sup> Edition, Brooks/Cole Pub. Comp., USA.
2- Thomas. G; Finney, R., 1998, Calculus and analytical geometry, 5 <sup>th</sup> Edition, Addison-Wesely USA.
Essential References المراجع المساندة
NONE
المصادر الإلكترونية ومواقع الإنترنت.Electronic Materials and Web Sites etc
NONE

Cor	urse Policies الضوابط والسياسات المتبعة في المقرر
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	Class Attendance: حضور الفعاليات التعليمية
	- Students are expected to attend classes regularly and promptly.
8.	- The attendance should not be less than 80%.
	- If the student has been absent, he is responsible for finding out any missed material by consulting other
	students or going to the professor's office hours.
	Tardy: الحضور المتأخر
9.	- Attendance and arriving on time for the class are necessary. If the student is late, he will be prevented
	from class.
10.	Exam Attendance/Punctuality: <u>ضوابط الامتحان</u>
10.	- According to the rules the student gets absent in the exam of the course.
11.	Assignments & Projects: التعيينات والمشاريع
11.	- Papers survey or projects should be submitted by the time detriment by the professor.
	Cheating: الغثن
12.	- According to the rules, cheating is a serious offense and will always result in an imposition of a penalty.
14.	The penalties that can be started from the range of canceling the result of the course to canceling the
	student's admission.
	Plagiarism: الانتحال
13.	- Plagiarism is a serious offense and will always result in an imposition of a penalty. The penalties that can
	be started by making a zero mark for the work.
	Other policies: سیاسات اُخری
14.	- The student should by a commitment by the rules inside class and university. Therefore, he is expected to
	show respect for his classmate, instructors &others.

Prepared by Assoc.Prof. Adel Al-Matary Quality Assurance Unit Assoc.Prof. Adel Al-Matary

Dean of the Faculty Assoc.Prof. Bassim AlKhirbash