Academic program description form

University name	: Northern Technical	University.
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College/Institute: Technical Management Institute - Nineveh.

Scientific Department: Department of Financial and Banking Technologies.

Name of the academic or professional program: Technical Diploma - Financial and Banking Technologies.

Name of final certificate: Technical Diploma in Financial and Banking Technologies.

Study system: Courses - second level - first course - financial mathematics.

Description preparation date: 4/8/2024

Date of filling the file: 4/8/2024

the signature:
Name of department head:-M.D. Loyalty Hazem Sultan

Name of scientific assistant:-M. Muhammad Osama Ahmed

the date:-

Check the file before

Division of Quality Assurance and University Performance

Name of the Director of the Quality Assurance and University Performance Division:

the date

the signature

Authentication of the Dean

See the program . \

SeekingNorthern Technical University - Technical Management Institute - Nineveh - Department of Financial and Banking Technologies to prepare graduates in the field of finance and banking to work in government departments and governmental and private banks and to benefit from specialization in the practical and applied field.

Program message . ⁷

The Department of Banking and Financial Technologies at the Institute of Management Technology aims to...-Nineveh toProviding the student with mathematical methods for banking operations and how to deal with financial activities in banks using a mathematical analysis method

Program Goals . "

- A1- Realizing and understanding financial mathematics in order to use financial analysis tools
- 2-Using mathematics in the financial analysis of financial assets.

Program accreditation . 5

Muhammad Salama Rashid, Financial Mathematics 2007 - \

Alaa Al-Din Al-Khafaji and Amal Hussein Alwan, Authority of Technical Institutes, 2001 - ٢

Introduction to Financial Mathematics_ Robert 2001.3

Other	external	linfluences	٥
Other	CALCITIAL	illilluciices	

Program structure .7								
comments *	percentage	Study unit	Number of courses	Program structure				
Basic course			Yes	Enterprise requirements				
			Yes	College requirements				
			Yes	Department				

		requirements
	There is	summer training
		Other

^{*} Notes may include whether the course is core or elective.

Program description	٠,٧			
Credit hours		Name of the course or course	Course or course code	Year/level
	Theoret ical + practica I	financial mathematics	FBT207	2023-2024/second

Expected learning outcome	es of the pr	ogramme .	٨		
Knowledge					
				Learn about the mathematics	concept of financial
				aims to analyze simple and com mechanisms in a assets such as st	ethematics course financial assets using pound interest analyzing financial cocks and bonds and eturns resulting from
				Identify the med commercial inte interest.	chanisms of crest and the correct
				Instant payment	ts
				Settlement of sh simple and com	nort-term debts using pound interest

Skills	
	B1-Using advanced mathematical tools in analyzing financial statements. Enhance the ability to logically and analytically understand financial models
Value	
	C 1- Enhancing the ability to solve problems in the financial field. Financial mathematics helps develop the student's skills to confront these problems and find the most appropriate ways to solve them. C 2- Providing a comprehensive understanding of the working mechanisms of financial markets. A3- Providing a strong foundation for advanced financial specializations

Teaching and learning strategies .9

- 1- The Financial Mathematics course aims to introduce students to quantitative analysis tools using mathematical equations for financial phenomena and finding a logical analysis of them.
- 2-It seeks to provide students with skills in the field of financial analysis to support the field of application in the labor market.
- 3- It includes the articleSolution to mathematical problems in addition to various examples and study assignments.

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	1	methods	1
- 1// -1	mann	mernace	1 '

Weekly, monthly and daily exams and the end of the course exam.

education institution . \ \ \ Faculty members: - Zahraa Taha Nagi								
racuity men		a waqi		1				
Preparing th	ne teaching staff	tion	Scientific rank					
lecturer	angel			private	general			
	angel			Economi c feasibilit y studies	Economy	assistant teacher		

Professional development

Orienting new faculty members

Attending workshops and courses in various fields in order to acquire additional skills.

Professional development for faculty members

Attending workshops and courses in various fields in order to acquire additional skills.

Acceptance standard . 17

the average. - \tag{7}

Admission plan. - "

The most important sources of information about the program . \\rac{1}{5}

Muhammad Salama Rashid, Financial Mathematics 2007 - "

Alaa Al-Din Al-Khafaji and Amal Hussein Alwan, Authority of Technical Institutes, 2001 $\,$ - $^{\epsilon}$

Introduction to Financial Mathematics_ Robert 2001 -°

Program development plan . \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Updating scientific content -\ Involving students in solving scientific problems and discussions\(^{\tau}\) Using realistic examples to ensure students' interaction in understanding methods of financial -\(^{\tau}\) mathematics and quantitative analysis

Please check the boxes corresponding to the individual learning outcomes from the program subject to evaluation

Program skills chart															
Learning outcomes required from the programme															
Value				Skills				Knov	wledge			Essential or optional?	Course Name	Course Code	Year/level
C4	C3	C2	C1	B4	В3	B2	B 1	A4	А3	A2	A1				
√	✓	√	√	✓	✓	√	√	√	√	√	√	Basic	financial mathematics	FBT207	2023-2024

Course description form

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Importance of Financial Mathematics
۲.
ple Interest
۳.
culate the period between two dates (in days
. ξ
concept of Trade interest (Banking interest)and Exact interest
. 0
difference between Trade interest and Exact interest.
6.
Relationship between trade interest and Exact interest.
7.
culate the (trade interest) and (Exact interest) by using Numerical Method.
8.
posited & Draw
9.
Settlement of short time loan (by simple interest).
-By periodical interest method.
*-By Equally premium method.
10.
The Debit Discount (by simple interest).
11.
Banking nominal value of the deposit.
12.
difference between the Banking Discount and True Discount.

true discount.
compound interest:-
e concept of compound interest.
difference between the simple interest and compound interest