University of Sana'a
Faculty of Engineering

24Course Specification of Mathematics (4).

I. Course Identification and General Information:						
1	**Course Title:**	***Mathematics (4)***				
2	**Course Code & Number:**	Br104				
3	**Credit hours:**	C.H				**Credit Hours**
		Th.	**Tu.**	**Pr.**	**Tr.**	
		2	2			3
4	**Study level/ semester at which this course is offered:**	2nd Year/ Level 2nd semester				
5	**Pre –requisite (if any):**	Mathematics 3				
6	**Co –requisite (if any):**					
8	**Program (s) in which the course is offered:**	Bachelor of Science in Civil Engineering (B.S.C.E.)				
9	**Language of teaching the course:**	English and Arabic				
10	**Location of teaching the course:**	Classes				
11	**Prepared By:**	Dr. Adnan Al-Salihi				
12	**Date of Approval**					

II. Course Description:

This course introduces to students the Integral transformations. Topics to be covered include:
Laplace transforms: definitions, properties and theorems, Inverse transform and Solution of ordinary and partial differential by Laplace transform, Laplace transform of special functions, Applications.
Fourier series, integrals and transforms: Definitions and properties, usual and arbitrary period, Fourier series of odd and even functions, Definitions and properties of Fourier transform with applications and Fourier transform of special functions.
Z transforms: Definitions and properties of Z transforms, including convergence, inversion techniques, application.

Prepared by	Head of Department	Quality Assurance Unit	Dean of the Faculty	Academic Development Center & Quality Assurance
	Dr. Abdulkareem Yahya Al khattabi	Ass. Prof. Dr. Mohammad Algorafi	Prof. Dr. Mohammed AL-Bukhaiti	Ass. Prof. Dr. Huda Al-Emad

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III. Course Intended learning outcomes (CILOs) of the course		**Referenced PILOs**
a.1	Recognize the definitions, basic properties and theorems of the Laplace Transforms, Fourier series, Fourier transforms and Z Transform and how to compute it for common functions.	**A1**
a.2	Identify inverse of Laplace, Fourier and Z transforms by a different method.	**A3**
b.1	Demonstrate proficiency in choose appropriate methods for perform a Laplace transform, Fourier series, Fourier transforms and Z transforms.	**B1, B2**
b.2	Compare between Laplace transforms, Fourier transforms, Z transforms and discrete Fourier transforms and its applications.	**B2**
c.1	Applying Laplace and Fourier transforms and Fourier series to solve the differential equations.	**C3**
c.2	Solve simple linear difference equations using the Z-transform approach.	**C3**
c.3	Build a mathematics models and solve problems in engineering applications using transformation theory.	**C3**
d.1	Effectively manage tasks, time, and resources.	**D2**
d.2	Communicate and work effectively in group and individually.	**D1**

(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
a1- Recognize the definitions, basic properties and theorems of the Laplace Transforms, Fourier series, Fourier transforms and Z Transform and how to compute it for common functions	- Lectures. - Tutorials	- Written tests - Written assessment. - Report, homework and assignments.
a2- Identify inverse of Laplace, Fourier and Z transforms by a different method.	- Lectures. - Tutorials	- Written tests - Written assessment.

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		- Report, homework and assignments.

(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
b1- Demonstrate proficiency in choose appropriate methods for perform a Laplace transform, Fourier series, Fourier transforms and Z transforms.	- Lectures. - Tutorials	- Written tests - Written assessment. - Report, homework and assignments.
b2- Compare between Laplace transforms, Fourier transforms, Z transforms and discrete Fourier transforms and its applications.	Lectures, Tutorials	- Written tests - Written assessment. - Report, homework and assignments.

C Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
c1- Applying Laplace and Fourier transforms and Fourier series to solve the differential equations.	Lectures, Tutorials	- Written tests - Written assessment. - Report, homework and assignments.
c2- Solve simple linear difference equations using the Z-transform approach.	- Lectures. - Tutorials	- Written tests - Written assessment. - Report, homework and assignments.
c3- Build a mathematics models and solve problems in engineering applications using transformation theory.	- Lectures. - Tutorials	- Written tests - Written assessment. - Report, homework and assignments.

(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
d1- Effectively manage tasks, time, and resources.	- Lectures. - Tutorials	- Written tests - Written assessment. - Report, homework and assignments.
d2- Communicate and work effectively in group and individually.	- Lectures. - Tutorials	- Written tests - Written assessment. - Report, homework and assignments.

IV. Course Content:

A – Theoretical Aspect:

Order	Units/Topics List	Learning Outcomes	Sub Topics List	Number of Weeks	contact hours
1	Introduction of Laplace transform	a1, b1, d1	• Definition of Laplace transforms. • Laplace transforms of elementary functions.	1	2
2	Properties of Laplace transform	a1, b1, d1	• Properties and theorem of Laplace transform. • Laplace transform of special functions: unit step function, Dirac-delta function and periodic functions. • Generalization of Laplace Transforms by means of Gamma functions.	1	2
3	Inverse Laplace transform	a1, a2, b1, d1, d2	• Basic concepts and definitions. • Properties and theorems of Inverse Laplace transform.	2	4
4	Methods to find Inverse Laplace transform	a1, a2, b1, c1, d1, d2	• Inverse Laplace transform by partial fraction and convolution theorem	1	2

5	Application of Laplace transforms	a1, a2, b1, c3, c1, d1	• Application of Laplace transform to ordinary and partial differential equations.	1	2
6	Fourier series	a1, b1, d1, d2	• Definition and Convergence. • Periodic and non-periodic Functions. • Fourier Cosine and Sine Series • Half intervals Fortier Series Convergence Theorem.	1	2
7	Fourier series	a1, b1, d1, d2	• Definition and Convergence. • Periodic and non-periodic Functions. • Fourier Cosine and Sine Series • Half intervals Fortier Series Convergence Theorem.	1	2
8	Fourier integral	a1, b1, c1, d1, d2	• Fourier integrals. • Fourier sine and cosine integrals	1	2
9	Fourier transforms and Inverse Fourier transforms and its applications.	a1, a2, b1, c1, c3, b2, d1	• Fourier transforms • properties and theorems of Fourier transforms. • Inverse Fourier transforms. • Fourier sine and cosine transforms. • The relation between Laplace and Fourier. • Application of Fourier series to partial differential equation	3	6
10	Z Transforms	a1, b1, c2, d1	• Concept of Z-Transform of a Discrete Sequence. • Distinction between Laplace, Fourier and Z Transforms.	1	2
11	Inverse Z Transforms and applications	a1, a2, b1, b2, c1, c2, c3, d2	• Region of Convergence. • Inverse Z-transform • Properties of Z-transforms. • Applications for Z-transforms.	1	2
Number of Weeks /and Units Per Semester				**14**	**28**

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B – Tutorial Aspect:				
Order	**Tasks/ Experiments**	**Number of Weeks**	**contact hours**	**Learning Outcomes**
1	Introduction of Laplace transform and Laplace transform of elementary functions : Tutorial 11	1	**2**	a1,b1 ,d1
2	Properties and theorems of Laplace transform	1	**2**	a1,b1 ,d1
3	Inverse Laplace transform	1	**2**	a1,a2,b1,d1,d2
4	Methods to find inverse Laplace transform (partial fraction and convolution theorem)	2	**4**	a1,a2,b1, ,c1,d1, d2
5	Application of Laplace transforms to solve ordinary and partial differential equations.	1	**2**	a1,a2,c1, c3, c1,d1
6	Fourier series and Fourier Cosine and Sine Series	2	**4**	a1,b1,d1,d2
7	Fourier integrals	1	**2**	a1 ,b1,c1, d1, d2
8	Fourier transforms and Inverse Fourier transforms and its applications.	3	**6**	a1,a2,b1, c1,c3,b2,d1
9	Z Transforms	1	**2**	a1 ,b1, c2,d1
10	Inverse Z Transforms and applications	1	**2**	a1,a2,b1, b2,c1,c2, c3, d2
Number of Weeks /and Units Per Semester		**14**	**28**	

V. Teaching strategies of the course:

- Lectures
- Tutorials

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VI. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	Coursework assignments	a1, a2, b1, b2, c1, c2, c3, d1	During of semester	3.5
2	Quiz 1	a1, a2, b1, c, c3, d1	4	1
3	Quiz 2	a1, a2, b1, b2, c1, c2, c3, d1	10	1
4	Report	b2, c3	5	2

VII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Written assignment	During of semester	7.5	5%	a1, a2, b1, b2, c1, c2, c3, d1
2	Quizzes	4^{th} & 10^{th}	7.5	5%	a1, a2, b1, b2, c1, c2, c3, d1
3	Midterm exam	8^{th} week	30	20%	a1, a2, b1, c1, c3, d1
4	Final exam	End of semester	105	70%	a1, a2, b1, b2, c1, c2, c3
	sum		**150**	**100%**	

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VIII. Learning Resources:

- Written in the following order: (Author - Year of publication – Title – Edition – Place of publication – Publisher).

1- Required Textbook(s) (maximum two).

1- Advanced Engineering Mathematics, sixth edition, by Dennis G. Zill, Jones & Bartlett Learning, 2018.
2- Mathematical Methods, S.Sivaiah , Laxmi publications(p) LTDA.
3- A Text Book of Engineering Mathematics, Vol (II), by Dr.Rajesh Pandey, word press, First edition, 2010.

2- Essential References.

1- Schaum's Outline of Theory and problems of Laplace Transforms, Murray R. Spiegel, Ph.D , Tata Mc-GRAW-HILL publishing Company, 2005.
2- Schaum's Outline of Theory and problems of Fourier Analysis, Murray R. Spiegel, Ph.D , Tata Mc-GRAW-HILL publishing Company, 2004.

3- Electronic Materials and Web Sites *etc*.

1- wolframMathworld
http://mathworld.wolfram.com/topics/CalculusandAnalysis.html

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IX. Course Policies:	
1	**Class Attendance:** The students should have more than 75 % of attendance according to rules and regulations of the faculty.
2	**Tardy:** The students should respect the timing of attending the lectures. They should attend within 1 minutes from starting of the lecture.
3	**Exam Attendance/Punctuality:** The student should attend the exam on time. The punctuality should be implemented according to rules and regulations of the faculty for midterm exam and final exam.
4	**Assignments & Projects:** The assignment is given to the students after each chapter, the student has to submit all the assignments for checking on time.
5	**Cheating:** If any cheating occurred during the examination, the student is not allowed to continue and he/she has to face the examination committee for enquiries.
6	**Plagiarism:** The student will be terminated from the Faculty, if one student attends the exam on another behalf according to the policy, rules and regulations of the university.
7	**Other policies:** • All the teaching materials should be kept out the examination hall. • The mobile phone is not allowed. • There should be a respect between the student and his teacher.

Reviewed By	**Vice Dean for Academic Affairs and Post Graduate Studies** **Dr. Tarek A. Barakat** **Dr. Mohammad Algorafi**
	Deputy Rector for Academic Affairs Dr. Ibrahim AlMutaa **Dr. Ahmed mujahed** **Dr. Munaser Alsubri**

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Template for Course Plan (Syllabus) of Mathematics (5)

I. Information about Faculty Member Responsible for the Course:							
Name of Faculty Member	Dr. Adnan Al-salihi	**Office Hours**					
Location& Telephone No.	00967770499879	**SAT**	**SUN**	**MON**	**TUE**	**WED**	**THU**
E-mail	Adnans2000@gmail.com						

II. Course Identification and General Information:						
1-	**Course Title:**	***Mathematics (5)***				
2-	**Course Number & Code:**	CE203				
3-	**Credit hours:**	**C.H**				**Credit Hours**
		Th.	**Tu.**	**Pr.**	**Tr.**	
		2	2			3
4-	**Study level/year at which this course is offered:**	2nd Year/ Level 2nd semester				
5-	**Pre –requisite (if any):**	Mathematics 3				
6-	**Co –requisite (if any):**					
7-	**Program (s) in which the course is offered**	Bachelor of Science in Civil Engineering (B.S.C.E.)				
8-	**Language of teaching the course:**	English and Arabic				
9-	**System of Study:**	Credit Hours System				
10-	**Mode of delivery:**	Full Time				
11-	**Location of teaching the course:**	Classes				

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III. Course Description:

This course introduces to students the Integral transformations. Topics to be covered include:

Laplace transforms: definitions, properties and theorems, Inverse transform and Solution of ordinary and partial differential by Laplace transform, Laplace transform of special functions, Applications.

Fourier series, integrals and transforms: Definitions and properties, usual and arbitrary period, Fourier series of odd and even functions, Definitions and properties of Fourier transform with applications and Fourier transform of special functions.

Z transforms: Definitions and properties of Z transforms, including convergence, inversion techniques, application.

IV. Intended learning outcomes (ILOs) of the course:

- **Brief summary of the knowledge or skill the course is intended to develop:**

a.1. Recognize the definitions, basic properties and theorems of the Laplace Transforms, Fourier series, Fourier transforms and Z Transform and how to compute it for common functions.

a.2. Identify inverse of Laplace, Fourier and Z transforms by a different method.

b.1. Demonstrate proficiency in choose appropriate methods for perform a Laplace transform, Fourier series, Fourier transforms and Z transforms.

b.2. Compare between Laplace transforms, Fourier transforms, Z transforms and discrete Fourier transforms and its applications.

c.1. Applying Laplace and Fourier transforms and Fourier series to solve the differential equations.

c.2. Solve simple linear difference equations using the Z-transform approach.

c.3. Build a mathematics models and solve problems in engineering applications using transformation theory.

d.1. Effectively manage tasks, time, and resources.

d.2. Communicate and work effectively in group and individually.

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V. Course Content:

- **Distribution of Semester Weekly Plan Of course Topics/Items and Activities.**

A – Theoretical Aspect:

Order	Topics List		Week Due	Contact Hours
1	Introduction of Laplace transform and Laplace transform of elementary functions	• Definition of Laplace transforms. • Laplace transforms of elementary functions.	1	2
2	Properties and theorems of Laplace transform	• Properties and theorem of Laplace transform. • Laplace transform of special functions: unit step function, Dirac-delta function and periodic functions. • Generalization of Laplace Transforms by means of Gamma functions.	2	2
3	Inverse Laplace transform	• Basic concepts and definitions. • Properties and theorems of Inverse Laplace transform.	3	2
4	Methods to find inverse Laplace transform (partial fraction and convolution theorem methods)	• Inverse Laplace transform by partial fraction and convolution theorem	4,5	4
5	Application of Laplace transforms to solve ordinary and partial differential equations.	• Application of Laplace transform to ordinary and partial differential equations.	6	2
6	Fourier series and Fourier Cosine and Sine Series	• Definition and Convergence. • Periodic and non-periodic Functions. • Fourier Cosine and Sine Series	7	4

		• Half intervals Fortier Series Convergence Theorem.		
7	Midterm Exam		8	2
8	Fourier series and Fourier Cosine and Sine Series	• Definition and Convergence. • Periodic and non-periodic Functions. • Fourier Cosine and Sine Series • Half intervals Fortier Series Convergence Theorem.	9	2
9	Fourier integrals	• Fourier integrals. • Fourier sine and cosine integrals	10,11, 12	2
10	Fourier transforms and Inverse Fourier transforms and its applications.	• Fourier transforms • properties and theorems of Fourier transforms. • Inverse Fourier transforms. • Fourier sine and cosine transforms. • The relation between Laplace and Fourier. • Application of Fourier series to partial differential equation	13	6
11	Z Transforms	• Concept of Z-Transform of a Discrete Sequence. • Distinction between Laplace, Fourier and Z Transforms.	14	2
12	Inverse Z Transforms and applications	• Region of Convergence. • Inverse Z-transform • Properties of Z-transforms. • Applications for Z-transforms.	15	2
13	Final Exam		16	2
Number of Weeks /and Units Per Semester			**16**	**32**

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B – Tutorial Aspect:			
Order	**Topics List**	**Week Due**	**Contact Hours**
1	Introduction of Laplace transform and Laplace transform of elementary functions : tutorial 1	1	2
2	Properties and theorems of Laplace transform: tutorial 2	2	2
3	Inverse Laplace transform: tutorial 3	3	2
4	Methods to find Inverse Laplace transform (partial fraction and convolution theorem methods): tutorials 4& 5	4,5	4
5	Application of Laplace transforms to solve ordinary and partial differential equations: tutorial 6	6	2
6	Fourier series and Fourier Cosine and Sine Series: tutorial 7 & 8	7,8	4
7	Fourier integrals: tutorial 9	9	2
8	Fourier transforms and Inverse Fourier transforms and its applications: tutorials 10, 11 & 12	10,11,12	6
9	Z Transforms: tutorial 13	13	2
10	Inverse Z Transforms and applications: tutorial 14	14	2
Number of Weeks /and Units Per Semester		**14**	**28**

VI. Teaching strategies of the course:

- Lectures
- Tutorials

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VII. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	Coursework assignments	a1,a2,b1, b2,c1,c2,c3,d1	During of semester	3.5
2	Quiz 1	a1,a2,b1,c1 ,c3,d1	4th	1
3	Quiz 2	a1,a2,b1, b2,c1,c2,c3,d1	10th	1
	Report	b2,c3	5th	2

VIII. Schedule of Assessment Tasks for Students During the Semester:

Assessment	Type of Assessment Tasks	Week Due	Mark	Proportion of Final Assessment
1	Written assignment	During of semester	7.5	5%
2	Quizzes	4th & 10th	7.5	5%
3	Midterm exam	8th week	30	20%
4	Final exam	End of semester	105	70%
	sum		**150**	**100%**

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2- Mathematical Methods, S.Sivaiah , Laxmi publications(p) LTDA.
3- A Text Book of Engineering Mathematics, Vol (II), by Dr.Rajesh Pandey, word press, First edition, 2010.

2- Essential References.

1- Schaum's Outline of Theory and problems of Laplace Transforms, Murray R. Spiegel, Ph.D , Tata Mc-GRAW-HILL publishing Company, 2005.
2- Schaum's Outline of Theory and problems of Fourier Analysis, Murray R. Spiege Ph.D , Tata Mc-GRAW-HILL publishing Company, 2004.

3- Electronic Materials and Web Sites *etc*.

1- wolframMathworld
http://mathworld.wolfram.com/topics/CalculusandAnalysis.html

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X. Course Policies:	
Unless otherwise stated, the normal course administration policies and rules of the Faculty of ----- apply. For the policy, see: ----------	
1	**Class Attendance:** The students should have more than 75 % of attendance according to rules and regulations of the faculty.
2	**Tardy:** The students should respect the timing of attending the lectures. They should attend within 1 minutes from starting of the lecture.
3	**Exam Attendance/Punctuality:** The student should attend the exam on time. The punctuality should be implemented according to rules and regulations of the faculty for midterm exam and final exam.
4	**Assignments & Projects:** The assignment is given to the students after each chapter, the student has to submit all the assignments for checking on time.
5	**Cheating:** If any cheating occurred during the examination, the student is not allowed to continue and he/she has to face the examination committee for enquiries.
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