







1-Course Specification of Physics

	I. Course Identification and General Information:						
1	Course Title:	Physics					
2	Course Code & Number:	FR002					
		С.Н				Credit	
3	Credit hours:	Th.	Tu.	Pr.	Tr.	Hours	
		2	2	2		4	
4	Study level/ semester at which this	First Level-First Semester					
	course is offered:						
5	Pre –requisite (if any):	Nil					
6	Co –requisite (if any):	Algebraic, Derivatives, and Integration					
8	Program (s) in which the course is offered:	Civil Engineering Program					
9	Language of teaching the course:	English					
10	Location of teaching the course:	Faculty of Engineering					
11	Prepared By:	Dr. Mohammad A. Algorafi					
12	Date of Approval						

II. Course Description:

This course introduces fundamental principles and concepts of theoretical and practical physics of importance to civil engineering, and their applications. Topics include: units, vectors, Newtonian mechanics, work and energy and their applications, fluids mechanics, heat, properties of engineering materials and applications, basic wave properties, light and sound.

Head of Department Dr. Samir Mohsen Al-Sirry Quality Assurance Unit Assoc. Prof. Dr. Mohammad Algorafi

Dean of the Faculty Prof. Dr. Mohammed AL-Bukhaiti Academic Development Center & Quality Assurance Assoc. Prof. Dr. Huda Al-Emad









II	I. Course Intended learning outcomes (CILOs) of the course	Reference PILOs
a.1	Characterize knowledge of, Physics sciences and its applications in the field of civil Engineering	A1
a.2	Describe the procedures of laboratory tests and the properties and behavior of construction materials related to Physics area.	A5
b.1	Integrate theories, rules and basic concepts to interpret physical events to formulate	B2
c1	Conduct experiments safely to verify theoretical concepts related to Physics area.	C1
c.2	solve Physics problems using suitable methods	C2
d.1	Write the report in project work	D1
d.2	Work in a team efficiently	D3
d.3	evaluate acquisition of new knowledge as a part of life- long learning strategy.	D5

(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 - Characterize knowledge of, Physics sciences and its applications in the field of civil Engineering	Lecture Tutorial Reading	Written examination Problem set				
a2 - Describe the procedures of laboratory tests and the properties and behavior of construction materials related to Physics area.	Lecture Tutorial / demonstration Lab	Problem set lab examination				

(B) Alignment Course Intended Learning Outcomes of Intellectual Skills						
to Teaching Strategies and Assessment Strategies:						
Course Intended Learning	Course Intended Learning Teaching strategies Assessment Strategies					
Outcomes						

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Department	Assurance Unit	Prof. Dr.	Development	University
Dr. Samir Mohsen	Assoc. Prof. Dr.	Mohammed AL-	Center & Quality	Prof. Dr. Al-Qassim
Al-Sirry	Mohammad	Bukhaiti	Assurance	Mohammed Abbas
Algorafi			Assoc. Prof. Dr.	
			Huda Al-Emad	









b1 - integrate theories, rules and	Lecture	Problem set
basic concepts to interpret physical	Presentations	examination
events to formulate	lab	

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				
c.1 - Conduct experiments safely to verify theoretical concepts related to Physics area.	Lab representation	Lab reports Lab examination				
c.2 - Solve Physics problems using suitable methods.	Lecture Tutorial / demonstration Discussions	Problem set – Quizzes examination				

(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:					
Course Intended Learning Outcomes Teaching strategies Assessment Strategies					
d.1 - Write the report in project work	Discussion sessions Lab	Write reports			
d.2- Work in a team efficiently	Discussion sessions Lab	Write reports			
d.3 - Evaluate acquisition of new knowledge as a part of life- long learning strategy.	Discussion sessions Lab Independent study	Write reports			

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Assoc. Prof. Dr.
Huda Al-Emad









IV. Course Content:

A –	Theoretical	Aspect:
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Title of the Program: B.Sc. Of Architectural Engineering

	A – Theoretical Aspect:					
Order	Units/Topics List	Learning Outcomes	Sub Topics List	Number of Weeks	contact hours	
1	Introduction to Physics	a1, a2, b1	Introduction, Unit, Conversions, Dimensional Analysais, Vectors	1	2	
2	Motion	a1, a2, b1, c2	In One-Dimension, a,v,s	1	2	
3	Newton's Laws	a1, a2, b1, c2	The three laws– Gravitational Force	1	2	
4	Work and Energy	a1, a2, b1, c2	The Work Done – Kinetic Energy – Potential Energy –	1	2	
5	Fluid Mechanics	a1, a2, b1, c2	Fluid Flow Moving fluids; continuity principle, Bernoulli's theorem. Static fluids; pressure, Pascal's law	2	4	
6	Heat Transfer	a1, a2, b1, c2	Thermal Processes	2	4	
7	properties and performance of engineering materials,	a1, a2, b1, c2	Elasticity: stress, strain, elastic moduli; Poisson's ratio; elastic limit; elasticity at the microscopic level	1	2	
8	Oscillations and Waves	a1, a2, b1, c2	Mechanical oscillations (effect of wind on structures) waves (phase, mathematical representations and intensity - decibel scale)	2	4	
9	Sound	a1, a2, b1, c2	, Sound Waves, Doppler's Effect, Linear superposition	1	2	
10	Light & Optics	a1, a2, b1, c2	Wave Motion absorption, emission and stimulated emission of photons coherence lasing action from population inversion	2	4	

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Number	of Wooks land U	nits Per Semester	1/	28
		laser safety		

В -	B - Tutorial Aspect:					
Order	Tasks/ Experiments	Number of Weeks	contact hours	Learning Outcomes		
1	Introduction to Physics	1	2	a1, b1		
2	Motion	1	2	a1, b1, c2		
3	Newton's Laws	1	2	a1, b1, c2		
4	Work and Energy	1	2	a1, b1, c2		
5	Fluid Mechanics	2	4	a1, b1, c2		
6	Heat Transfer	2	4	a1, b1, c2		
7	Properties and performance of engineering materials,	1	2	a1, b1, c2		
8	Oscillations and Waves	2	4	a1, b1, c2		
9	Sound	1	2	a1, b1, c2		
10	Light & Optics	2	4	a1, b1, c2		
	Number of Weeks /and Units Per Semester	14	28			

C - Practical Aspect:						
Orde r	Tasks/ Experiments	Number of Weeks	contact hours	Learning Outcomes		
1	Experiment of Measurements Tools and Devices	1	2	a2, c1, d1, d2, d3		
2	Verification of Newton's Laws	1	2	a2, c1, d1, d2, d3		
3	Validation of Energy Conservation	1	2	a2, c1, d1, d2, d3		
4	Calculation the Viscosity of the Fluid	2	4	a2, c1, d1, d2, d3		
5	Determining the Specific Heat of a material	1	2	a2, c1, d1, d2, d3		
6	Temperature dependent resistivity	2	4	a2, c1, d1, d2, d3		
7	Determining the Deflection Force on a Charge moving in a magnetic Field	1	2	a2, c1, d1, d2, d3		
8	Calculation the Speed of Sound in Air	2	4	a2, c1, d1, d2, d3		

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Dean of the Faculty Prof. Dr. Mohammed AL-Bukhaiti Academic Development Center & Quality Assurance Assoc. Prof. Dr. Huda Al-Emad Rector of Sana'a University

Prof. Dr. Al-Qassim Mohammed Abbas Sana'a University
Faculty of Engineering
Department: Basic Engineering Sciences









	Number of Weeks /and Units Per Semester	14	28	
10	10 Experiment of Light Interaction with Matter		4	a2, c1, d1, d2, d3
9	Spectrometer Analyzer (Light Analyzing Using a prism)	1	2	a2, c1, d1, d2, d3

V. Teaching strategies of the course:

Title of the Program: B.Sc. Of Architectural Engineering

Lectures

Power Point

Lab

Solved Problems

Tutorials

Discussions

Independent study

V]	VI. Assignments:							
No	Assignments	Aligned CILOs(symbols)	Week Due	Mark				
1	Motion	a1, a2, b1, c2	2	1				
2	Newton's Laws	a1, a2, b1, c2	4	1				
3	Work and Energy	a1, a2, b1, c2	5	1				
4	Fluid Mechanics	a1, a2, b1, c2	7	1				
5	Heat Transfer	a1, a2, b1, c2	8	1				
6	Properties and performance of engineering materials,	a1, a2, b1, c2	9	1				
7	Oscillations and Waves	a1, a2, b1, c2	11	1				
8	Sound	a1, a2, b1, c2	12	1				
9	Light & Optics	a1, a2, b1, c2	14	2				

1	VII. Reports:						
N o	Assignments	Aligned CILOs(symbols)	Week Due	Mark			
1	Verification of Newton's Laws	a2, c1, d1, d2, d3	1	1			
2	Validation of Energy Conservation	a2, c1, d1, d2, d3	2	1			

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Department: Basic Engineering Sciences

Title of the Program: B.Sc. Of Architectural Engineering









3	Calculation the Viscosity of the Fluid	a2, c1, d1, d2, d3	3	1
4	Determining the Specific Heat of a material	a2, c1, d1, d2, d3	5	1
5	Temperature dependent resistivity	a2, c1, d1, d2, d3	6	1
6	Determining the Deflection Force on a Charge moving in a magnetic Field	a2, c1, d1, d2, d3	8	1
7	Calculation the Speed of Sound in Air	a2, c1, d1, d2, d3	9	1
8	Spectrometer Analyzer (Light Analyzing Using a prism)	a2, c1, d1, d2, d3	11	1
9	Experiment of Light Interaction with Matter	a2, c1, d1, d2, d3	12	2

V	VIII. Schedule of Assessment Tasks for Students During the Semester:							
No	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes			
1	Assignments	Weekly	10	5	a1, a2, b1, c2			
2	Reports	Weekly	10	5	a2, c1, d1, d2, d3			
3	Quizzes	Two time randomly	10	5	b1, c2			
4	Mid Test	7	20	10	a1, a2, b1, c2			
5	Final Exam (lab)	14	30	15	a2, c1, d1, d2, d3			
6	Final Exam (theoretical)	15	120	60	a1, a2, b1, c2			
	Sum		200	100				

IX. Learning Resources:

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

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

• Raymond A.Serway, Robert J.Beichner and John W.Jewett, Jr. – 2000 – Physics For Scientists and Engineers With Modern Physics – 5th Edition – Saunders College Publishing

2- Essential References.

1- F.W. Seas, M.W. Zemansky and H.D. Young – 2003 - University Physics – Addison – Wesley Company

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- 2- Budinski, K.G. & Budinski, M.K. "Engineering Materials Properties and Selection", Prentice Hall, 2009.
- 3- Stevens, W.R., "Building Physics: Lighting: Seeing in the Artificial Environment, Pergaman Press, 2013.

3- Recommended Books and Reference Materials.

Reviewed By

1- David Halliday and Robert Resnick – 2007 – Fundamentals of Physics – 7th edition – John Willey Co.

7	X. 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 enquires.
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.

		Dr. Tarek	A. Barakat		
Head	of	Quality	Dean of the Faculty	Academic	Rector of Sana'a
Depa	rtment	Assurance Unit	Prof. Dr.	Development	University
Dr. S	amir Mohsen	Assoc. Prof. Dr.	Mohammed AL-	Center & Quality	Prof. Dr. Al-Qassim
Al-Si	rry	Mohammad	Bukhaiti	Assurance	Mohammed Abbas
		Algorafi		Assoc. Prof. Dr.	
				Huda Al-Emad	

Vice Dean for Academic Affairs and Post Graduate Studies









Dr. Riyad A. Muharam
Deputy Rector for Academic Affairs Dr. Ibrahim AlMutaa
Dr. Ahmed mujahed
Dr. Munaser Alsubri

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Template for Course Plan (Syllabus) of Physics

I. Information about Faculty Member Responsible for the Course:								
Name	Dr. Mohammad A. Algorafi	Office	Hours					
Location& Telephone No.	Faculty of Engineering -Sana'a 770-521-271	SAT	SUN	MON	TUE	WED	THU	
E-mail		2		2		2		

	II. Course Identification and General Information:							
1-	Course Title:	Physics						
2-	Course Number & Code:	FR002						
		C.H Credit						
3-	Credit hours:	Th.	Tu.	Pr.	Tr.	Hours		
		2	2	2		4		
4-	Study level/year at which this course is offered:	First level / first year						
5-	Pre –requisite (if any):	Nil						
6-	Co –requisite (if any):	Nil						
7-	Program (s) in which the course is offered	Civil E	ngineering	g Program				
8-	Language of teaching the course:	English/Arabic						
9-	System of Study:	Regular						
10-	Mode of delivery:	Lecture, lab						
11-	Location of teaching the course:	Class, 1	aboratory					

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III. Course Description:

Title of the Program: B.Sc. Of Architectural Engineering

This course introduces fundamental principles and concepts of theoretical and practical physics of importance to civil engineering, and their applications. Topics include: units, vectors, Newtonian mechanics, work and energy and their applications, fluids mechanics, heat, properties of engineering materials and applications, basic wave properties, light and sound.

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

- Brief summary of the knowledge or skill the course is intended to develop:
- **a.1** Characterize knowledge of, Physics sciences and its applications in the field of civil Engineering A1
- **a.2** Describe the procedures of laboratory tests and the properties and behavior of construction materials related to Physics area. A5
- **b.1** Integrate theories, rules and basic concepts to interpret physical events to formulate B2
- **c.1** Conduct experiments safely to verify theoretical concepts related to Physics area.
- **c.2** solve Physics problems using suitable methods C2
- **d.1** Write the report in project work D1
- **d.2** Work in a team efficiently D3
- **d.3** Evaluate acquisition of new knowledge as a part of life- long learning strategy.

V. Course Content:

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

A -Theoretical Aspect:

1				
Order	Topic List	Sub Topics List		contact hours
1	Introduction to Physics	Introduction, Unit, Conversions, Dimensional Analysais, Vectors	1	2
2	Motion	In One-Dimension, a,v,s	2	2
3	Newton's Laws	The three laws– Gravitational Force	3,4	4
4	Work and Energy	The Work Done – Kinetic Energy – Potential Energy	5	2

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V. Course Content:

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

A –Theoretical Aspect:

Order	Topic List	Sub Topics List		contact hours
5	Fluid Mechanics	Fluid Flow Moving fluids; continuity principle, Bernoulli's theorem. Static fluids; pressure, Pascal's law.		4
6	Midterm Exam		8	2
7	Heat Transfer	Thermal Processes	9	2
8	properties and performance of engineering materials,	Elasticity: stress, strain, elastic moduli; Poisson's ratio; elastic limit; elasticity at the microscopic level	10	2
9	Oscillations and Waves	Mechanical oscillations (effect of wind on structures) waves (phase, mathematical representations and intensity - decibel scale)	11,12	4
10	Sound	, Sound Waves, Doppler's Effect, Linear superposition	13	2
11	Light & Optics	Wave Motion absorption, emission and stimulated emission of photons coherence lasing action from population inversion laser safety	14,15	4
12	Final Exam		16	2
Number of Weeks /and Units Per Semester			16	32

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B - Tu	B - Tutorial Aspect:				
Order	Order	Order	Order		
1	Introduction to Physics	1	2		
2	Motion	2	2		
3	Newton's Laws	3	2		
4	Work and Energy	4	2		
5	Fluid Mechanics	5,6	4		
6	Heat Transfer	7,8	4		
7	properties and performance of engineering materials,	9	2		
8	Oscillations and Waves	10,11	4		
9	Sound	12	2		
10	Light & Optics	13,14	4		
	Number of Weeks /and Units Per Semester 14 28				

C- Practical Aspect:				
Order	Practical Skills List		contact hours	
1	Experiment of Measurements Tools and Devices	1	2	
2	Verification of Newton's Laws	2	2	
3	Validation of Energy Conservation	3	2	
4	Calculation the Viscosity of the Fluid	4,5	4	
5	Determining the Specific Heat of a material	6	2	
6	Temperature dependent resistivity	7,8	4	
7	Determining the Deflection Force on a Charge moving in a magnetic Field	9	2	
8	Calculation the Speed of Sound in Air	10,11	4	
9	Spectrometer Analyzer (Light Analyzing Using a prism)	12	2	
10	Experiment of Light Interaction With Matter	13,14	4	
	Number of Weeks /and Units Per Semester 14 28			

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Prof. Dr. Al-Qassim Mohammed Abbas









VI. Teaching strategies of the course:

Lectures.

Power Point

Lab

Solved Problems

Tutorials

Discussions

Independent study

7	VII. Assignments:				
No	Assignments	Aligned CILOs(symbols)	Week Due	Mark	
1	Motion	a1, a2, b1, c2	2	1	
2	Newton's Laws	a1, a2, b1, c2	4	1	
3	Work and Energy	a1, a2, b1, c2	5	1	
4	Fluid Mechanics	a1, a2, b1, c2	7	1	
5	Heat Transfer	a1, a2, b1, c2	8	1	
6	properties and performance of engineering materials,	a1, a2, b1, c2	9	1	
7	Oscillations and Waves	a1, a2, b1, c2	11	1	
8	Sound	a1, a2, b1, c2	12	1	
9	Light & Optics	a1, a2, b1, c2	14	2	

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VIII.Reports:				
No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	Verification of Newton's Laws	a2, c1, d1, d2, d3	1	1
2	Validation of Energy Conservation	a2, c1, d1, d2, d3	2	1
3	Calculation the Viscosity of the Fluid	a2, c1, d1, d2, d3	3	1
4	Determining the Specific Heat of a material	a2, c1, d1, d2, d3	5	1
5	Temperature dependent resistivity	a2, c1, d1, d2, d3	6	1
6	Determining the Deflection Force on a Charge moving in a magnetic Field	a2, c1, d1, d2, d3	8	1
7	Calculation the Speed of Sound in Air	a2, c1, d1, d2, d3	9	1
8	Spectrometer Analyzer (Light Analyzing Using a prism)	a2, c1, d1, d2, d3	11	1
9	Experiment of Light Interaction With Matter	a2, c1, d1,d2,d3	12	2

	IX. Schedule of Assessment Tasks for Students During the Semester:			
No	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Assignments	Weekly	10	5
2	reports	Weekly	10	5
3	Quizzes	Two time randomly	10	5
4	Mid Test	7	20	10
5	Final Exam (lab)	14	30	15
6	Final Exam (theoretical)	15	120	60
	Sum		200	100

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X. Learning Resources:			
• Written in the following order: (Author - Year of publication – Title –			
Edition – Place of publication – Publisher).			
1- Required Textbook(s) (maximum two).			
1- Raymond A.Serway, Robert J.Beichner and John W.Jewett, Jr			
2000 – Physics For Scientists and Engineers With Modern Physics			
- 5 th Edition - Saunders College Publishing			
2- Essential References.			
1- F.W. Seas, M.W. Zemansky and H.D. Young – 2003 - University			
Physics – Addison – Wesley Company			
2- Budinski, K.G. & Budinski, M.K. "Engineering Materials			
Properties and Selection", Prentice Hall, 2009.			
3- Stevens, W.R., "Building Physics: Lighting: Seeing in the Artificia			
Environment, Pergaman Press, 2013.			
3- Recommended Books and Reference Materials.			
1- David Halliday and Robert Resnick – 2007 – Fundamentals of			
Physics – 7 th edition – John Willey Co.			

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	XI. 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 enquires.
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.

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