



Course Specifications

Course Title:	Lighting unites design
Course Code:	424 AAD- 3
Program:	Bachelor in Applied Arts.
Department:	Applied Arts
College:	Faculty of Architecture and Design
Institution:	Jazan University

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A. Course Identification

1. Credit hours: 3 hours (2 Lecture+ 2 practical).
2. Course type a. University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Others <input type="checkbox"/> b. Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
3. Level/year at which this course is offered: Level 8/ 4 th Year.
4. Pre-requisites for this course (if any): Department is decide this.
5. Co-requisites for this course (if any): None

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	4 hours	100%
2	Blended	-	0%
3	E-learning	-	0%
4	Correspondence	-	0%
5	Other	-	0%

7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
Contact Hours		
1	Lecture	30
2	Laboratory/Studio	2×15= 30
3	Tutorial	0
4	Others (specify) 1 assessment (1 hour) 1 Midterm Examination (2 hour) 1 Final Examination (practical)- 3 hours)	6h
	Total	66
Other Learning Hours*		
1	Study	4×15=60
2	Assignments Continues assessment (3 hour) 1 Midterm Examination (3 hour) 1 Final Examination (Practical - 3 hour)	9h
3	Library Research for designs (1 h 30 minutes)	1.5 h
4	Projects/Research Essays/Theses (2 hour)	2h
5	Others (specify)	0
	Total	138.5h 138.5/40=3.5

* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

B. Course Objectives and Learning Outcomes

1. Course Description

- This course deals with the methods of design and classification of internal and external metal lighting systems, installation systems, elements, environmental, aesthetic and structural requirements, and building system regulations and appropriate assembly.

2. Course Main Objective

- After this course the student is expected to be To be familiar with the methods of designing interior and exterior lighting units, to master the steps of designing lighting units of all different forms, to employ integrated metal lighting systems with the rest of the elements of the surrounding architectural environment.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge:	
1.1	Identify the elements of the lighting unit.	K1
1.2	Classify types of indoor and outdoor lighting (from residential spaces, gardens, parks and streets).	K2
1.3	Name types of light bulbs for industrial lighting.	K1
1.4	Write requirements to be observed when designing lighting for each space.	K2
2	Skills :	
2.1	Analyze engineering elements of lighting unites in an innovative way.	S1
2.2	Arrange elements in more than one idea of the lighting method through the morphological approach and suitable for different spaces.	S2
2.3	Plan surfaces, materials, dimensions, functions and shape of the idea of lighting method.	S3
2.4	Appear idea in final design of a lighting unite.	S3
3	Competence:	
3.1	Cooperate in the exchange of information, websites, graphics and ideas about lighting unites.	C1
3.2	Search information and previous designs and related to unites of lighting from different sources.	C3
3.3	Draw projection views and section for lighting unites, suggest dimensions and set data.	C5
3.4	Show elements of the indoor and outdoor light module project in color.	C4

C. Course Content

No	List of Topics	Contact Hours
1	Introduction of the course, its objectives and calendar to study plan.	4
2	Project 1 (designing of interior lighting system inside homes, scientific background and overview, researching at internet, collecting information, finding sketches and selecting one or two ideas to study it.	12
3	Drawings preparation, sections, industrial details (shop drawing).	8
4	Presenting design by using colors, materials, modeling, lighting and others, as a subject or electronic model.	8
5	Project 2 (designing exterior lighting to outside home, scientific background and overview, researching at internet, collecting of information, finding sketches and selecting one or two ideas to study it.	8

6	Drawings preparation, sections, industrial details (shop drawing).	4
7	Presenting design by using colors, material and others, as a subject or electronic model.	4
8	Finishing the project (1), presentation and review.	4
9	Finishing the project (2), presentation and review.	4
10	Evaluation.	4
Total		

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge		
1.1	Identify the elements of the lighting unit.	<ul style="list-style-type: none"> - Lectures. - Field visits. - The workshops. - Open debate. 	<ul style="list-style-type: none"> - direct method (Objective test) by Test specification table - indirect method Course LO survey
1.2	Classify types of indoor and outdoor lighting (from residential spaces, gardens, parks and streets).		
1.3	Name types of light bulbs for industrial lighting.		
1.4	Write requirements to be observed when designing lighting for each space.		
2.0	Skills		
2.1	Analyze engineering elements of lighting unites in an innovative way.	<ul style="list-style-type: none"> - Self-education - Lectures. - Practical 	<ul style="list-style-type: none"> - direct method (Objective test) by Test specification table - indirect method Course LO survey
2.2	Arrange elements in more than one idea of the lighting method through the morphological approach and suitable for different spaces.		
2.3	Plan surfaces, materials, dimensions, functions and shape of the idea of lighting method.		
2.4	Appear idea in final design of a lighting unite.		
3.0	Competence		
3.1	Cooperate in the exchange of information, websites, graphics and ideas about lighting unites.	<ul style="list-style-type: none"> - Presentations. -The workshops. - Open debate. - Cooperative education. - Self-education 	<ul style="list-style-type: none"> - direct method (Objective test) by Test specification table - indirect method Course LO survey
3.2	Search information and previous designs and related to unites of lighting from different sources.		
3.3	Draw projection views and section for lighting unites, suggest dimensions and set data.		
3.4	Show elements of the indoor and outdoor light module project in color.		

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Continue Project (1): information, sketches, shop drawing, final design, presentations	2-6	10%
2	Test midterm	7	20%
3	Project (2): information, sketches, shop drawing, final design, presentations	8-12	10%
4	Continue Committee evaluation for project (1) and project (2)	13	20%
5	Final exam.	End of the Semester	40%
6	Total		100%

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :

- Individual consultation and academic advise is supposed to allocate a minimum of 4 hour per week.
- Tutorial for week students is supposed to allocate a minimum of 2 hour per week.

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	- "Lighting modern building", Architectural press, UK.: Phillips, Derek.
Essential References Materials	- Foster, J.S: "Structure and Fabric", (part 1&2) Batsford. - Allan, E: "Fundamental of Building Construction", John Wiley and Sons. - Barry, R: "The construction of Buildings", (Vol. II, III, IV), Granada. - All Liebing, R. W: "Architectural Working Drawings", John Wiley & Sons.
Electronic Materials	https://small-projects.org https://ezzatbaroudi.wordpress.com/2012/07/.../ -/الانارة-تصميم-الانارة-الداخلية... https://www.homify.sa/ideabooks/2259832/15-- فكرة-مدهشة-لإنارة-جدران-منزلك-الداخلية https://www.homify.sa/ideabooks/2529699/15-- فكرة-لإضاءة-الأفنية،-الحدائق-والمداخل www.w-dd.net/design_ask/archives/975 www.alhadeeqa.com
Other Learning Materials	Auto CAD program. Sketch up program.

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Classroom for group of 15 students (15 engineering drawing tables+ 15 chairs).
Technology Resources (AV, data show, Smart Board, software, etc.)	- 1 Projector. - 1 White board. - 1 Internet access.
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	None.

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods	
		indirect method	direct method
Effectiveness of teaching and assessment	Students	On line system course survey	
	Peer Reviewer or Head of Department		Peer OR Head of Department observation
Quality of learning resources	Students	On line system course survey	
	Peer Reviewer or Head of Department		Peer OR Head of Department Assessment
Achievement of course learning outcomes	Students	Course LO survey	
	Program Assessment Committee		Theoretical and practical tests According to Test specification table

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	
Reference No.	
Date	