

Course Specification of Illumination

I. (I. Course Identification and General Information:						
1.	Course Title:	Illumination					
2.	Course Code & Number:	PME3	344				
		C.H Tettal			Total		
3.	Credit hours:	Th. Tu. Pr. Tr.			Tr.	Total	
		2 2		3			
4.	Study level/ semester at which this course is offered:	4 th Level/1 st Semester					
5.	Pre –requisite (if any):	PME2	241				
6.	Co –requisite (if any):	None.					
7.	Program (s) in which the course is offered:	Electr	ical Power and	d Machin	es Engin	eering	
8.	Language of teaching the course:	English					
9.	Location of teaching the course:	Faculty of Engineering					
10.	Prepared By:	Asst. Prof. Dr. Adel Ahmed Al-Shakiri					
11.	Date of Approval						

II. Course Description:

This course is an introduction to basic illumination design. It covers different types of illuminations related to different applications. These can be home or industrial applications. The students will learn in this course how to assign and calculate illumination for different purposes depending on international standards related to illumination levels. A different illumination software packages well be introduced to help student in designing small illumination projects.

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III	Course Intended learning outcomes (CILOs) of the	Referenced
	course	PILOs
a1	Define the basic principles of illumination	A1
a2	Acquire knowledge about the factors that influence the level and type of illuminations	A3
b1	Identify Codes and Energy Efficient Lighting Systems.	B1
b2	Analyze Illumination Science and Technology	B2, B3
c1	Apply the Illumination Science and Technology in Lighting and Illuminance Calculations.	C1
c2	Design, model and simulate Illumination projects using related application Programs such as Deluxe Software Package	C2, C3
d1	Engage in independent lifelong learning in the field of Illumination Science and Technology.	D2
d2	Conduct searches of literature and Software Packages related to Illumination Science	D5

(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:

reaching braces and Assessment braceses.					
Co	urse Intended Learning Outcomes	Teaching strategies	Assessment Strategies		
a1-	Define the basic principles of illumination	Active Lectures.Tutorials.Computer AnalysisDiscussion	 Written Exams Homework Computer Analysis Results 		
a2-	Acquire knowledge about the factors that influence the level and type of illuminations	Active Lectures.Tutorials.Computer AnalysisDiscussion	 Written Exams Homework Computer Analysis Results 		

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

Strat	tegles and Assessment Strategies:		
Co	ourse Intended Learning Outcomes	Teaching strategies	Assessment Strategies
b1-	Identify Codes and Energy Efficient Lighting Systems.	Active Lectures.Tutorials.BrainstormingComputer Analysis	 Written Exams Homework Class activities. Computer Analysis Results
b2-	Analyze Illumination Science and Technology	Active Lectures.Tutorials.BrainstormingComputer Analysis	 Written Exams Homework Class activities. Computer Analysis Results

© Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:

Co	Course Intended Learning Outcomes Teaching strategies		Assessment Strategies
c1-	Apply acquired knowledge in Illumination Science and Technology in Lighting and Illuminance Calculations.	 Active Lectures. Analysis and Problem solving Computer simulations 	 Written Exams Homework Class activities. Computer Analysis Results
c2-	Design, model and simulate Illumination projects using related application Programs such as Deluxe Software Package	 Active Lectures. Analysis and Problem solving Computer simulations 	HomeworkSimulations reportsClass activities.

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	(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:				
	Course Intended Learning Outcomes Teaching strategies Assessment Strategies				
d1-	Engage in independent lifelong learning in the field of Illumination Science and Technology.	Group worksProjects	PresentationsProject reportsHomwork reports		
d2-	Conduct searches of literature and Software Packages related to Illumination Science	Group worksProjects	PresentationsProject reportsHomwork reports		

IV.	IV. Course Content:					
	A – Theoretical Asj	pect:				
Order	Units/Topics List	Learning Outcomes	Sub Topics List	Number of Weeks	Contact hours	
1	Lighting concepts and fundamentals of	a1, a,2,	Illumination Science and Technology	2	4	
1.	1. Illumination Science		Lighting concepts	Z	4	
	and Technology		Lighting Fundamentals			
2.	Light Sources and	a1, a2, b1,	Light Sources	1	2	
2.	Luminaires	c1	Light Luminaires	1	Ζ.	
	Lighting Codes and	a1, a2, c1,	Lighting Codes			
3.	Energy Efficient Lighting Systems	d1, d2	Energy Efficient Lighting Systems	2	4	
4.	Renewable Energy based Lighting Systems	a1, a2, b1, c1, d1	Renewable Energy based Lighting Systems	1	2	

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5	Photometry, Photometry	a1, a,2, b1,	Photometry	2	Δ
5.	Measurement and Colorimetry	b2 d1,.d2,	Photometry Measurement and Colorimetry	2	4
6.	Lighting and Illuminance	a1, a,2, b1, b2, c1, c2	Lighting Calculations	2	4
0.	Calculations	d1,.d2,	Illuminance Calculations	2	4
7.	Road Lightning	b1, b2, c1,	Classification of Road Lightning	2	4
	Design	c2, d1, d2	Road Lightning Design		
8.	Tunnel Lightning	b1, b2, c1,	Classification of Tunnel Lightning	2	4
	Design	c2, d1, d2	Tunnel Lightning Design		
Numbe	Number of Weeks /and Units Per Semester			14	28

B - Tu	torial Aspect:			
Order	Tasks/ Experiments	Number of Weeks	Contact hours	Learning Outcomes
1.	Lighting concepts and fundamentals of Illumination Science and Technology	2	4	a1, a,2, d1,.d2
2.	Light Sources and Luminaires	1	2	a1, a2, b1, c1
3.	Lighting Codes and Energy Efficient Lighting Systems	2	4	a1, a2, c1, d1, d2
4.	Renewable Energy based Lighting Systems	1	2	a1, a2, b1, c1, d1
5.	Photometry, Photometry Measurement and Colourimetry	2	4	a1, a,2, b1, b2 d1,d2,

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6.	Lighting and Illuminance Calculations	2	4	a1, a,2, b1, b2, c1, c2 d1.d2,
7.	Road Lightning Design	2	4	b1, b2, c1, c2, d1, d2
8.	Tunnel Lightning Design	2	4	b1, b2, c1, c2, d1, d2
Number of Weeks /and Units Per Semester		14	28	

V. Teaching strategies of the course:

- Active Lectures.
- Tutorials.
- The use of Computer and Web-Based Learning.
- Directed Self Study.
- Group Learning and Problem Based Learning.
- laboratory works
- Self and cooperative learning
- Dialogue, discussion and class activities
- Analysis and Problem solving.
- Project work
- Simulation tools (ETAP, Matlab With Simulink)
- Brainstorming

VI. Assignments:						
No	Assignments	Aligned CILOs(symbols)	Week Due	Mark		
1.	Project Work No. 1	b1, b2, c1, c2, d1	4 th	5		
2.	Project Work No. 2	b1, b2, c1, c2, d1	8^{th}	5		

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3.	Project Work No. 3	b1, b2, c1, c2, d1	14 th	5
4.	Home Works	b1, b2, c1, c2, d1,d2	3 rd , 5 th , 9 th , 11 th , 13 th	15
	Total			30

VII.	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.	Class activities	Every Class	7.5	5%	a1, b1, b2, c1, d1, d2.			
2.	Assignments	4 th -13 th	7.5	5 %	a1, a2, b1,b2, c1,c2, d1,d2.			
3.	Course Project	15 th	7.5	5%	a1, b1,b2, c1, c2, d1,d2.			
4.	Midterm exam	7 th	22,5	15%	a1, b1, b2, d2.			
5.	Final Exam	16 th	105	70%	a1, b1, b2, c1, c2, d2.			
	Total		150	100%				

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-Rüdiger Ganslandt Harald Hofmann-1992-Handbook of Lighting Design-Großbuchbinde Darmstadt

2-Steven Louis Shelley-2009-A Practical Guide to Stage Lighting-2nd Edition-Elsevier Inc.

2- Essential References.

1- Bill Holshevnikof, 2016, ARRI Lightning Handbook, 4th Edition, ARRI Inc, USA

3- Electronic Materials and Web Sites etc.

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1-LIF website <u>www.lif.co.uk</u> 2-ICEL website www.icel.co.uk 3-Faculty Electronic Library

Ľ	X. Course Policies:
1.	 Class Attendance: -A student should attend not less than 75 % of total hours of the subject; otherwise he will not be able to take the exam and will be considered as exam failure. If the student is absent due to illness, he/she should bring a proof statement from university Clinic
2.	Tardy:For late in attending the class, the student will be initially notified. If he repeated lateness in attending class he will be considered as absent.
3.	 Exam Attendance/Punctuality: A student should attend the exam on time. He is Permitted to attend an exam half one hour from exam beginning, after that he/she will not be permitted to take the exam and he/she will be considered as absent in 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:For cheating in exam, a student will be considered as fail. In case the cheating is repeated three times during his/her study the student will be disengaged from the Faculty.
6.	Plagiarism: Plagiarism is the attending of a student the exam of a course instead of another student. If the examination committee proofed a plagiarism of a student, he will be disengaged from the

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	Faculty. The final disengagement of the student from the Faculty should be confirmed from the Student Council Affair of the university.
7.	 Other policies: Mobile phones are not allowed to use during a class lecture. It must be closed, otherwise the student will be asked to leave the lecture room Mobile phones are not allowed in class during the examination. Lecture notes and assignments my given directly to students using soft or hard copy

Reviewed	Vice Dean for Academic Affairs and Post Graduate Studies: Asst. Prof. Dr. Tarek					
By	<u>A. Barakat</u>					
	President of Quality Assurance Unit: Assoc. Prof. Dr. Mohammed Algorafi					
	Name of Reviewer from the Department: Assoc. Prof. Dr. Radwan Al bouthigy					
	Deputy Rector for Academic Affairs Asst. Prof. Dr. Ibrahim AlMutaa					
	Assoc. Prof. Dr. Ahmed Mujahed					
	Asst. Prof. Dr. Munasar Alsubri					

Prepared by	Head of Department	Quality Assurance Unit	Dean of the Faculty
Asst. Prof. Dr.	Asst. Prof. Dr. Adel	Assoc. Prof. Dr.	Prof. Dr. Mohammed
Adel Ahmed Al-	Ahmed Al-Shakiri	Mohammad Algorafi	AL-Bukhaiti
Shakiri			

Academic Development Center & Quality Assurance Assoc. Prof. Dr. Huda Al-Emad



Template for Course Plan of Illumination

I. Information about Faculty Member Responsible for the Course:							
Name of Faculty Member	Dr. Morshed Hadwan Dr. Adel Al-Shakiri			Office	Hour	S	
Location& Telephone No.	Electrical Eng. Dep. 772771672	SAT	SUN	MON	TUE	WED	THU
E-mail	ashakiri62@gmail.com		12-2		12-2		

II.	II. Course Identification and General Information:						
1.	Course Title:	Illumin	nation				
2.	Course Number & Code:	PME34	44				
	3. Credit hours:		C.H	H		Total	
3.			Tu.	Pr.	Tr.	Total	
			2	-	-	3	
4.	Study level/year at which this course is offered:	4 th Lev	vel/1 st Semeste	r			
5.	Pre –requisite (if any):	PME24	41				
6.	Co –requisite (if any):	None.					
7.	Program (s) in which the course is offered	Electri	cal Power and	Machine	s Engineer	ring	
8.	Language of teaching the course:	Englis	h				

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9.	System of Study:	Regular
10.	Mode of delivery:	Lecture & Projects
11.	Location of teaching the course:	Faculty of Engineering

III. Course Description:

This course is an introduction to basic illumination design. It covers different types of illuminations related to different applications. These can be home or industrial applications. The students will learn in this course how to assign and calculate illumination for different purposes depending on international standards related to illumination levels. A different illumination software packages well be introduced to help student in designing small illumination projects.

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

- Brief summary of the knowledge or skill the course is intended to develop:
 - **1.** Define the basic principles of illumination
 - 2. Acquire knowledge about the factors that influence the level and type of illuminations
 - 3. Identify Codes and Energy Efficient Lighting Systems.
 - **4.** Analyze Illumination Science and Technology
 - 5. Apply the Illumination Science and Technology in Lighting and Illuminance Calculations.
 - **6.** Design, model and simulate Illumination projects using related application Programs such as Deluxe Software Package
 - 7. Engage in independent lifelong learning in the field of Illumination Science and Technology.
 - 8. Conduct searches of literature and Software Packages related to Illumination Science

V. Course Content:

A – Theoretical Aspect:

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Order	Units/Topics List	Sub Topics List	Number of Weeks	Contact hours
1.	Lighting concepts and fundamentals of Illumination Science and Technology	Illumination Science and Technology Lighting concepts Lighting Fundamentals	1 st ,2 nd	4
2.	Light Sources and Luminaires	Light Sources Light Luminaires	3 rd	2
3.	Lighting Codes and Energy Efficient Lighting Systems	Lighting Codes Energy Efficient Lighting Systems	4 th ,5 th	4
4.	Renewable Energy based Lighting Systems	Renewable Energy based Lighting Systems	6 th	2
5.	Mid Term Exam		7 th	2
6.	Photometry, Photometry Measurement and Colorimetry	Photometry Photometry Measurement and Colorimetry	8 th ,9 th	4
7.	Lighting and Illuminance Calculations	Lighting Calculations Illuminance Calculations	10 th ,11 th	4
8.	Road Lightning Design	Classification of Road Lightning Road Lightning Design	12 th ,13 th	4
9.	Tunnel Lightning Design	Classification of Tunnel Lightning Tunnel Lightning Design	14 th ,15 th	4

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10.	Final Exam		16 th	2
Number	of Weeks /and Units Per Se	emester	16	32

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B - Tı	B - Tutorial Aspect:				
Order	Tasks/ Experiments	Number of Weeks	Contact hours		
1.	Lighting concepts and fundamentals of Illumination Science and Technology	1^{st} , 2^{nd}	4		
2.	Light Sources and Luminaires	3 rd	2		
3.	Lighting Codes and Energy Efficient Lighting Systems	4^{th} , 5^{th}	4		
4.	Renewable Energy based Lighting Systems	6^{th}	2		
5.	Photometry, Photometry Measurement and Colourimetry	7 th ,8 th	4		
6.	Lighting and Illuminance Calculations	$9^{th}, 10^{th}$	4		
7.	Road Lightning Design	$11^{\text{th}}, 12^{\text{th}}$	4		
8.	Tunnel Lightning Design	13 th ,14 th	4		
	Number of Weeks /and Units Per Semester	14	28		

VI. Teaching strategies of the course:

- Active Lectures.
- Tutorials.
- The use of Computer and Web-Based Learning.
- Directed Self Study.
- Group Learning and Problem Based Learning.
- laboratory works
- Self and cooperative learning
- Dialogue, discussion and class activities
- Analysis and Problem solving.
- Project work
- Simulation tools (ETAP, Matlab With Simulink)
- Brainstorming

Prepared by	Head of Department	Quality Assurance Unit	Dean of the Faculty	Academic
Asst. Prof. Dr.	Asst. Prof. Dr. Adel	Assoc. Prof. Dr.	Prof. Dr. Mohammed	Development
Adel Ahmed Al-	Ahmed Al-Shakiri	Mohammad Algorafi	AL-Bukhaiti	Center & Quality Assurance
Shakiri				Assoc. Prof. Dr. Huda Al-Emad



VI	VII. Assignments:				
No	Assignments	Aligned CILOs(symbols)	Week Due	Mark	
1.	Project Work No. 1	b1, b2, c1, c2, d1	4 th	5	
2.	Project Work No. 2	b1, b2, c1, c2, d1	8 th	5	
3.	Project Work No. 3	b1, b2, c1, c2, d1	14 th	5	
4.	Home Works	b1, b2, c1, c2, d1,d2	3 rd , 5 th , 9 th , 11 th , 13 th	15	
	Total			30	

VIII. Schedule of Assessment Tasks for Students During the Semester:				
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1.	Class activities	Every Class	7.5	5%
2.	Assignments	4 th -13 th	7.5	5 %
3.	Course Project	15 th	7.5	5%
4.	Midterm exam	7 th	22,5	15%
5.	Final Exam	16 th	105	70%
	Total		150	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).

1-Rüdiger Ganslandt Harald Hofmann-1992-Handbook of Lighting Design-Großbuchbinde Darmstadt

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	2-Steven Louis Shelley-2009-A Practical Guide to Stage Lighting-2 nd Edition-Elsevier Inc.
2-]	Essential References.
	1- Bill Holshevnikof, 2016, ARRI Lightning Handbook, 4th Edition, ARRI Inc, USA
3-]	Electronic Materials and Web Sites <i>etc</i> .
	1-LIF website <u>www.lif.co.uk</u>
	2-ICEL website www.icel.co.uk
	3-Faculty Electronic Library
	X. Course Policies:
1.	Class Attendance:-A student should attend not less than 75 % of total hours of the subject; otherwise he will not be able to take the exam and will be considered as exam failure. If the student is absent due to

be able to take the exam and will be considered as exam failure. If the student is absent due to			
illness, he/she should bring a proof statement from university Clinic			
Tardy:			
- For late in attending the class, the student will be initially notified. If he repeated lateness in			
attending class he will be considered as absent.			
Exam Attendance/Punctuality:			
- A student should attend the exam on time. He is Permitted to attend an exam half one hour			
from exam beginning, after that he/she will not be permitted to take the exam and he/she will be			
considered as absent in exam.			
Assignments & Projects:			
- The assignment is given to the students after each chapter; the student has to submit all the			
assignments for checking on time.			
Cheating:			

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	- For cheating in exam, a student will be considered as fail. In case the cheating is repeated three times during his/her study the student will be disengaged from the Faculty.		
6.	Plagiarism: Plagiarism is the attending of a student the exam of a course instead of another student. If the examination committee proofed a plagiarism of a student, he will be disengaged from the Faculty. The final disengagement of the student from the Faculty should be confirmed from the Student Council Affair of the university.		
7.	 Other policies: Mobile phones are not allowed to use during a class lecture. It must be closed, otherwise the student will be asked to leave the lecture room Mobile phones are not allowed in class during the examination. Lecture notes and assignments my given directly to students using soft or hard copy 		

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