

COC-PAA, Rev.2, 31.04.2021

KONGU ENGINEERING COLLEGE, PERUNDURAI, ERODE - 638 060
(AUTONOMOUS)
BOARD OF EEE

Approval for Value Added Course (One / Two Credits) - (Consolidated)

Date: 07.09.2021

List of Value Added Course (One / Two credit) in the academic Year 2021-2022 Odd Semester

Sl. No	Regulations	Course Name	Course code (for Repeated Course) / New Course	Name of the Co-ordinators (Max:2)	Experts details from industry (if any)	Whether Experts is/are Alumni/ Alumnae (yes/no)	Lecture Hours	Practical Hours	Total Hours	Specify Fee/Per Batch or Fee/Per Student	Course Duration		Offered to (Year/Sem/ Branch of the student)
											From	To	
1	2020	FPGA Design for signal and Image Processing	New Course	Dr. S. Maheswari Mr. S.K. Logesh	NIL	No	15	15	30	Nil	25.09.2021	31.10.2021	III / III / EEE.E.E ECE/CSE/IT MTS
2	2018	Illumination and Lighting Design	Repeated Course	Dr. A. Shesha Dr. R. Meenakumari	Sekakumar S. Power Projects, Chennai	No	10	20	30	235/Student	30.10.2021	31.10.2021	III / IV / EEE
3	2020	SPICE based Simulation and analysis of Electronic Circuits using Multisim- Level 1	New Course	K. Rajeshkumar K. Karimullah	Nil	NO	10	20	30	Nil	25.09.2021	24.10.2021	III / III / EEE
4	2018	Electrical CAD	Repeated Course	Dr. R. Meenakumari Dr. N. Priyadharshini	C Cube Technologies	No	10	20	30	1770/Student	06.12.2021	22.12.2021	III / V / EEE.E.E
5	2020	Introduction to IOT & its real time applications	New Course	Dr. S. Albert Alexander Mr. D. Sarathkumar	Enthu Technology Solutions India Pvt Ltd	No	15	15	30	500/Student	01.10.2021	31.10.2021	III / III / EEE.E.E.CSE.IT
6	2020	Electric Vehicle and Battery Management System	New Course	Dr. M. Srinivasan Mr. M. Suresh	Revollax India Pvt Limited	No	10	20	30	3500/Student	14.10.2021	15.11.2021	III / III / EEE.E.E.CSE.MTS.E.E
7	2018	Electric Vehicle and Battery Management System	New Course	Dr. M. Srinivasan Mr. M. Suresh	Revollax India Pvt Limited	No	10	20	30	350/Student	04.10.2021	05.11.2021	III / IV / V / EEE.E.E.CSE.MTS.E.E
8	2018	Real Time Embedded System Development using High Performance ARM CORTEX M4 Processor	Repeated Course	Dr. M. Karthik Dr. S. Usha	Enthu Technology Solutions India Pvt Ltd	No	0	30	30	700/Student (Approx)	25.09.2021	27.10.2021	III / VI / EEE

These courses shall be approved/trained in the BOS meeting.

19/9/21
Faculty in-charge
M. SURESH

19/9/21
HOD

19/9/21
CCO/Academic

19/9/21
Principal

- End:
1. Minutes of Internal BOS for approval of the above courses
 2. Details of each course mentioned above as per the given format.
 3. Copy of the Syllabus of the courses

21-22
odd

18VAC11 – Illumination and Lighting design

L	T	P	Credit
2	0	2	1

Preamble This course aims to impart knowledge on the basics of Illumination and Lighting. This course also helps the students to design for indoor, outdoor and sports lighting.

Unit - I Introduction to Lighting and Illumination 5

Definitions in Illumination: Light and lamp introduction- Source of light-Luminaires -design of illumination systems (for residential and industrial workshop) -types of lamps - Types of light mounting and fixtures energy efficiency lamps-lighting calculations

Unit - II ILLUMINATION AND ITS STANDARDS 5

Software and standard for illumination-Terms and factors in illumination, illuminance and uniformity ratio, glare-calculation of lumen-and number of luminaires required-indoor lighting design, outdoor lighting design, Street Lighting

List of Exercises / Experiments:

1. Simulation and lighting of a classroom
2. Simulation of Day lighting and Emergency lighting
3. Simulation of Outdoor lighting-Façade lighting, Signanage lighting
4. Simulation of Street Lighting
5. Simulation of Sport Lighting -Lighting design for football field
6. Simulation of Sport Lighting -Design for an international stadium
7. Importing and simulation CAD file

REFERENCES:

Lecutre:10, Practical:20, Total: 30

1. M.Nisha kan, Understanding LED illumination, CRC Press,2013
2. Jack L. Lindsey,Applied Illumination Engineering,Fairmont Publisher,2013

COURSE OUTCOMES:

On completion of the course, the students will be able to

	BT Mapped (Highest Level)
CO1 understand the basics of illumination	Understanding (K2) Manipulation (S2)
CO2 analyse the characteristics of various lighting systems	Analysing (K4), Precision (S3)
CO3 develop and implement lighting design for different applications	Applying (K3), Manipulation (S2)

Mapping of COs with POs and PSOs

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1		2		2	3	2	1	3	1	2		2
CO2	2	3		2		2		2	3	2	3			2
CO3		1	3		3				1		1		3	

1 – Slight, 2 – Moderate, 3 – Substantial, BT- Bloom's Taxonomy

ASSESSMENT PATTERN

Test / Bloom's Category*	Remembering (K1) %	Understanding (K2) %	Applying (K3) %	Analyzing (K4) %	Evaluating (K5) %	Creating (K6) %	Total %
Simulation project 1 (40 marks)*	10	40	30	20			100
Simulation project Project 2 (50 marks)*	10	20	30	40			100
Viva(10 marks)	40	60					100

* As per the approval

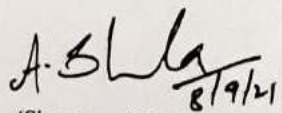
 Estd : 1984	KONGU ENGINEERING COLLEGE (Autonomous) PERUNDURAI - 638060 INTERNAL QUALITY ASSURANCE CELL	 CERT No.: 99-100-20788 ISO 9001 : 2015
	Approval for Value Added Course (One / Two Credits)	

Academic Year: 2021 - 2022 ODD Semester

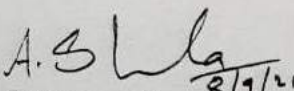
DEPARTMENT OF EEE

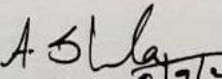
Date: 08.09.2021

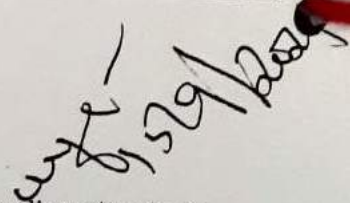
1.	Academic Year	:	2021-2022				Semester : ODD	
2.	Course Title	:	Illumination and Lighting Design				Credit(s): One	
3.	Type of Course	:	Already Offered Course					
	• If "Already offered course",	:	Course Code: 18VAC11				Version: 2	
4.	Course Coordinator(s)	:	1.Dr. A.SHEELA 2.Dr.R.MEENAKUMARI					
5.	Course offered by	:	External experts					
6.	Name and designation of external resource persons	:	Selvakumar.S, Business head, Power projects, Chennai					
7.	Details about external organization	:	Power projects, Chennai & the team					
8.	Course fee for external experts		Max. number of students/Batch		Course fee / student			
	11800.00		50		236.00 200+(18%GST)			
9.	No. of days	Period		No. of hours			Venue/ Meet ID	
		From	To	Lecture	Practical	Total		
	4	30/10/2021 06/11/2021	31/10/2021 07/11/2021	10	20	30	Online mode	
10.	Pre-requisites for offering the course	:	Physics					
11.	Course offered to	:	Programme		Branch		Year/Semester	
			BE		Electrical and Electronics Engineering		III/V Semester	

12.	Course Main Contents	:	Day 1	Definitions in Illumination: Light and lamp introduction- Source of light-Luminaires -design of illumination systems (for residential and industrial workshop) -types of lamps - Types of light mounting and fixtures- energy efficiency lamps- lighting calculations	
		Day 2	Software and standard for illumination-Dialux-Terms and factors in illumination, illuminance and uniformity ratio, glare- calculation of lumen-and number of luminaries required-indoor lighting design in dialux		
		Day 3	Interior lighting design: Emergency lighting-Day light factor- Video creation		
		Day 4	Exterior lighting design: Calculation methods-Design in dialux- Street light design		
		Project			
13.	Course Outcomes	:	After completing the course the student will be able to: • understand the basics of illumination • analyse the characteristics of various lighting systems • develop and implement lighting design for different applications		
14.	Course Assessment (Min. 2)	:	S. No.	Type	Max. Marks
		1	Simulation Project 1		40
		2	Simulation Project 2		50
		3	Viva		10
		Total		100 Marks	
15.	Verified that the content of this course is not offered to students partially/fully in regular curriculum of respective programme of the student. Certify that the course content, credits and grade are approved in the BOS meeting or approved by internal BOS members and will be ratified in the next BOS meeting			 (Signature of the HoD after verification)	
16.	Any other details	:	-		

The above proposal may kindly be approved.


 Course co-ordinator(s)


 HOD


 Chief Coordinator/Academic

Encl:

1. Copy of the syllabus of the course
2. Financial proposal from the external organization (if any)

KONGU ENGINEERING COLLEGE, PERUNDURAI, ERODE – 638 052

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

III Year-5th semester (23/10/2021 -24/10/2021, 31/10/2021 & 06/11/2021)

Course Code & Name: 18VAC11-ILLUMINATION AND LIGHTING DESIGN

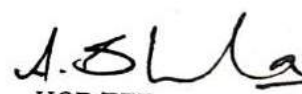
ATTENDANCE DETAILS

Total number of hours conducted: 30 hours

S.NO	ROLL NO	NAME	No. of HOURS PRESENT	% of ATTENDANCE
1.	19EER100	SUJITH S	28	93.33
2.	19EER073	Rajesh s	27	90
3.	19EER066	Prasanna V	30	100
4.	19EER087	SIBIKKRISHNA N	30	100
5.	19EER107	VIGNESHWARAN G	30	100
6.	19EER086	SHIBI S P	30	100
7.	19EER091	Sowbarn T S	30	100
8.	19EER010	S.BAVYA	30	100
9.	19EER043	N. S. KAVIN	30	100
10.	19EER038	KARTHIKA S	30	100
11.	19EER063	PADMESH K	30	100
12.	19EER097	SRIVARSHIDHA M	30	100
13.	19EER059	NISHANTHI R	30	100
14.	19EER090	SOUNDHARYA MALA V	28	93.33
15.	19EER069	PRIYADHARSHINI K	30	100
16.	19EER036	JYOTHIPRABHA D	30	100
17.	19EER089	SNEKA S S	30	100
18.	19EER068	PRIYADHARSHINI A	30	100
19.	19EER028	HARIHARAN G	30	100
20.	19EER083	SARANYA V	30	100
21.	19EER011	BHARATH P	27	90
22.	19EER088	D. SNEKA	30	100

23.	19EER070	R.PRIYADHARSHINI	30	100
24.	19EER065	PRANESH KANNAN M K	30	100
25.	19EEL113	ARUL MOZHI VARMAN M	30	100
26.	19EER095	SRI LAKSHMANAR V	30	100
27.	19EER098	SUDHARSAN L	30	100
28.	19EER099	SUJEET P	30	100
29.	19EER078	SABARIABISHEK S	30	100
30.	19EER064	PRABAKARAN S	30	100
31.	19EER094	SRIKANTH S	30	100
32.	19EER093	Sri Arvind S N	30	100
33.	19EER060	NISHANTHKUMAR K S	30	100
34.	19EER092	SOWMIYA M	28	93.33
35.	19EEL125	YUVARAJ B	30	100
36.	19EER079	SAIBARATHI RAVI	30	100
37.	19EER103	SUMITHRA V	30	100
38.	19EER080	SAKTHI VISWANATHAN P	30	100
39.	19EER075	RAVISHANKAR D	30	100
40.	19EER102	SUMITHRA J	30	100
41.	19EER018	DHARSHINI T	30	100
42.	19EER072	RAGULPRASATH K	30	100
43.	19EEL122	TAMILARASAN A	30	100
44.	19EEE104	SURENDHARAN R	30	100
45.	19EER057	NAVEEN RAJ J	30	100
46.	19EER056	NALINI K R	30	100


 Course coordinator 22/11/21


 HOD/EEE 22/11/21

KONGU ENGINEERING COLLEGE, PERUNDURAI, ERODE – 638 052
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
III Year-5th semester (23/10/2021 -24/10/2021, 31/10/2021 & 06/11/2021)
Course Code & Name: 18VAC11-ILLUMINATION AND LIGHTING DESIGN

Year/Section : III year (A & B section)

Course Faculty : Dr.A.Sheela

S.NO	NAME	ROLL NO	PROJECT 1(40)	PROJECT 2 (50)	VIVA (10)	TOTAL (100)
1.	SUJITH S	19EER100	35	30	7	72
2.	Rajesh s	19EER073	35	30	7	72
3.	Prasanna V	19EER066	30	45	6	81
4.	SIBIKKRISHNA N	19EER087	35	45	7	87
5.	VIGNESHWARAN G	19EER107	35	30	6	71
6.	SHIBI S P	19EER086	35	40	8	83
7.	Sowbam T S	19EER091	38	40	7	85
8.	S.BAVYA	19EER010	35	40	7	82
9.	N. S. KAVIN	19EER043	40	50	9	99
10.	KARTHIKA S	19EER038	37	42	7	86
11.	PADMESH K	19EER063	35	40	7	82
12.	SRIVARSHIDHA M	19EER097	37	42	7	86
13.	NISHANTHI R	19EER059	34	43	8	85
14.	SOUNDHARYA MALA V	19EER090	33	45	7	85
15.	PRIYADHARSHINI K	19EER069	35	40	7	82
16.	JYOTHIPRABHA D	19EER036	34	42	7	83
17.	SNEKA S S	19EER089	38	42	7	87
18.	PRIYADHARSHINI A	19EER068	38	42	7	87
19.	HARIHARAN G	19EER028	33	42	8	83
20.	SARANYA V	19EER083	37	43	7	87
21.	BHARATH P	19EER011	38	43	7	88
22.	D. SNEKA	19EER088	33	45	8	86

23.	R.PRIYADHARSHINI	19EER070	37	40	7	84
24.	PRANESH KANNAN M K	19EER065	38	40	7	85
25.	ARUL MOZHI VARMAN M	19EEL113	33	41	7	81
26.	SRI LAKSHMANAR V	19EER095	37	40	8	85
27.	SUDHARSAN L	19EER098	38	40	7	85
28.	SUJEET P	19EER099	33	40	7	80
29.	SABARIABISHEK S	19EER078	37	40	7	84
30.	PRABAKARAN S	19EER064	38	40	8	86
31.	SRIKANTH S	19EER094	33	40	7	80
32.	Sri Arvind S N	19EER093	37	42	7	86
33.	NISHANTHKUMAR K S	19EER060	40	46	9	95
34.	SOWMIYA M	19EER092	37	40	7	84
35.	YUVARAJ B	19EEL125	38	40	7	85
36.	SAIBARATHI RAVI	19EER079	33	41	7	81
37.	SUMITHRA V	19EER103	37	40	8	85
38.	SAKTHI VISWANATHAN P	19EER080	38	40	7	85
39.	RAVISHANKAR D	19EER075	33	40	7	80
40.	SUMITHRA J	19EER102	37	40	8	85
41.	DHARSHINI T	19EER018	38	40	7	85
42.	RAGULPRASATH K	19EER072	33	40	7	80
43.	TAMILARASAN A	19EEL122	37	42	7	86
44.	SURENDHARAN R	19EEE104	37	40	8	85
45.	NAVEEN RAJ J	19EER057	38	40	8	86
46.	NALINI K R	19EER056	33	41	7	81


Course coordinator


HOD/EEE

LC 255/60

UP TO
₹. 20,000/-

KONGU ENGINEERING COLLEGE, PERUNDURAI, ERODE-638 060

PROGRAMME APPROVAL FORM

AD - 12 - PP
REV.1
01.01.2021

Proposal Tracking No.

KEC / ECR / 2021-2022 / 10 / 0038

Dept Ref No.

EE / 2021-2022 / 015

Date: 18/10/2021

1.	Department	Electrical & Electronics Engineering		
2.	a) Name of the Programme	One credit course on Illumination and Lighting Design		
	b) Norms under which it is proposed	One credit Course		
3.	Dates	From: 25/10/2021 30/10/2021	TO: 24/11/2021 01/11/2021	No. of Days 4
4.	Programme for	Faculty	Students	Others (Specify)
5.	Level	State / National / International	Association	Institution / Dept. / Cell / General
6.	Highlights of the Programme	The students will understand the basics of illumination & will learn to design lighting design		

1. Proposed Invitees

S.No	Purpose	Chief Guest	Speakers / Jury	Trust Member Invitees
1	To deliver lecture	S. Selvakumar, Business		
2	& to handle practical session	head, Power projects		

2. Agenda, Programme Agenda / Schedule Enclosed Yes / No

3. Expenditure

S.No	Purpose	Proposed	Revised	Actual	Remarks
1	Course fee	9440			(40 x 236)
2	for external experts				(200 + 184) 457
3					
4					
5					
6					
Total		9440			

4. Source

Fee collected from students

	Proposed	Actual
Budget Allotment	9440	Sponsors -
Balance Amt. Available	9440	KEC -
Expenses Proposed	9440	Registration - 9440
Balance	-	

Dr. Meena Kumari

Faculty in Charge (with Name)

H.O.D

CCO

PRINCIPAL

**KONGU ENGINEERING COLLEGE, THOPPUPALAYAM,
PERUNDURAI, ERODE - 638 060**

ACCOUNT SETTLEMENT FORM

(Function / Events Conducted @ KEC)

<u>Association</u>	<u>Value Added Course</u>	<u>IIPC</u>	<u>Others :</u>
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DATE: 22/11/21

Department	: EEE		
Name of the Function / Event	: One credit course on Illumination & Lighting Design		
Function In-charge	: Dr. A. SHEELA		
Date of Function / Event	: 23/10/21 - 24/10/21 31/10/21 & 6/11/21		
Date of proposal	: 18/10/21		
Amount sanctioned	: ₹. 9440		
Amount Collected from Participants (if any)	Amount (A) ₹. 9200	Service Tax (B) ₹. 1656	Total (A + B) ₹. 10,856
	Receipt No. & Date	1829-1874 (29/10/21)	
Advance amount Received & Date	: ₹. -	Date:	-
Total expenses	: ₹. 10856/-		
Balance amount Remitted	: ₹. -	Receipt No.	Receipt Date
Amount Claimed (if any)	: ₹. 10856/-		
Amount to KEC / IIPC	: ₹. -	Percentage (%)	

A. S. Sheela
22/11/21
FACULTY INCHARGE
(WITH NAME) [Dr. A. SHEELA]

J. S. Sheela
22/11/21
HOD

CCO

For Office use only

SUPERINTENDENT

A.R.

REGISTRAR