# Department of Electrical and Electronics Engineering

# **KIET Group of Institutions, Ghaziabad**

**Department of Electrical & Electronics Engineering** 

## Session: 2016-17

Subject Name : Summer Workshop on Design and Fabrication of LED Luminaries

Course : This course is designed with an aim to leverage and optimize the problem-solving skills of the students. Students in summer workshop will become familiar with fundamental of Design and Fabrication of LED Luminaries. The focus of the course is the development of skill required to clear the problems of Design and Fabrication of LED Luminaries during their campus interviews. The students will learn the Design and Fabrication of LED Luminaries.

#### **Prerequisite** : Knowledge of Design and Fabrication of LED Luminaries

**Prof. Yaduvir Singh** Coordinator

Dr. Neeraj Kumar Gupta HoD (EN)

## KIET GROUP OF INSTITUTIONS GHAZIABAD ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT

## <u>4 Days Summer Workshop on "Design & Fabrication of LED Luminaries"</u> (5 June 2017 to 8 June 2017)

### Date: 4/7/2017

The department of Electrical & Electronics Engineering is going to organize a summer workshop program on "Design & Fabrication of LED Luminaries" from 5 June 2017 to 8 June 2017 for B. Tech 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup>year students of EN Branch (on First come First Serve Basis). This summer workshop is beneficial for students because it will enhance the technical and practical skills of students regarding LED based luminaries.

This workshop includes sessions on LED fundamentals and its components, LED Drivers, PCB designing, LED Luminaries assembly and Product testing.

**Duration** : 5 June 2017 to 8 June 2017

Time : 10:00 A.M. – 4:00 P.M.

Venue : EN DEPARTMENT

**Registration Fees per students:** NIL

#### **SYLLABUS**

Section 1: Basics of electronics, LED as a light source

Section 2: Basics of LED drivers and its designing

Session 3: LED PCB fabrication

Session 4: Assembly of LED products

Session 5: Working and visit of 100KW Solar Power plant/LED based Industrial Visit

Prof. Mohd Faisal Jalil Und, Prof. Mohammad Shariz Ansari (Workshop Coordinator)

Dr. Neeraj Kumar Gupta (HoD, EN Deapartment)

1/04/17 ó Director



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## KIET GROUP OF INSTITUTIONS ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT

## NOTICE

# Four Day Workshop On "Design and Fabrication of LED Luminaries"

All students of EN Department are here by informed that EN Department is organising a workshop on "Design and Fabrication of LED Luminaries" from 5 June 2017 to 8 June 2017.

The registration is on "first come first serve" basis as seats are limited (30 seats). No fee will be charged for participation.

Sample of the topics that will be shared in the workshop are as follows:

1. Basics of LED Drivers

2. PCB Design for LED Bulb, Tube Light & other luminaries.

- 3. Hands on Practical on Assembly
- 4. Future scope in LED Luminaries
- 5. Question and Answer Session

Almal. **Resource** person Prof. Ameer Faisal

Prof. Mohd Faisal Jalil XXX Prof.Mohammad Shariz Ansari PROGRAM CO-ORDINATOR

Dr. NEERAJ K GUPTA HOD EN DEPARTMENT

## Attendance Sheet Workshop on "Design and febrication of LED Luminiries" 5th June 2017 to 8th June 2017

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Date:

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Г	S No	Roll No	. T		Name of the Student	1	Branch	Year	Sec	Signature
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# **Attendance Sheet** Workshop on "Design and febrication of LED Luminiries" 5th June 2017 to 8th June 2017

Date: 06	16	17
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	S No	Roll No.	ROHIT CHAURASIYA	EN	2nd year	С	A
$\vdash$		100202	SAGAR SARASWAT	EN	2nd year	С	A
	2		RAMAN VASHISTHA	EN	2nd year	С	A
	3	1502921128	LAKSHAY ARORA	EN	3rd year	В	John
ŀ	4	1402921095	AKSHAY KHURANA	EN	3rd year	в	Opp
-	5	1302921014	AMULYA RAWAT	EN	3rd year	A	Adamat
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	8	1402921008	ABHISHEK RATHOUR	EN	2nd year	В	Nitensh
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## KIET GROUP OF INSTITUTIONS GHAZIABAD ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT

4 Days Summer Workshop on "Design & Fabrication of LED Luminaries"

(5 June 2017 to 8 June 2017)

## Attendance Sheet Workshop on "Design and febrication of LED Luminiries" 5th June 2017 to 8th June 2017

Date: 07/06/2017

ſ		Dell No	Name of the Student	Branch	Year	Sec	Signature
	S No	Roll No.	ROHIT CHAURASIYA	EN	2nd year	С	A
	1	1502921136	SAGAR SARASWAT	EN	2nd year	с	A
	2	1502921128	RAMAN VASHISTHA	EN	2nd year	С	A
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# **KIET Group of Institutions, Ghaziabad**

**Department of Electrical & Electronics Engineering** 

## Session: 2016-17

Subject Name:Summer School on Real-Time Simulations and Application of OPAL-RTCourse:This course is designed with an aim to leverage and optimize the<br/>problem-solving skills of the students. Students in summer school will<br/>become familiar with fundamental of Real-Time Simulations and<br/>Application of OPAL-RT. The focus of the course is the development of<br/>skill required to clear the problems of Real-Time Simulations and<br/>Application of OPAL-RT during their campus interviews. The students<br/>will learn the Real-Time Simulations and Application of OPAL-RT.

Prerequisite : Knowledge of Real-Time Simulations and Application of OPAL-RT

**Prof. Yaduvir Singh** Coordinator

Dr. Neeraj Kumar Gupta HoD (EN)

### Dr. Brijesh Singh

Associate Professor Department of Electrical and Electronics Engineering **KIET Group of Institutions** Ghaziabad (UP), India-201206 Contact No: +91-8377825935, +91-9450838018 E-mail: brijesh.singh@kiet.edu, singhb1981@gmail.com



(An ISO-9001:2008 Certified Institute) Affiliated to AKTU, Lucknow

Date: August 14, 2017

To, The Account Officer **KIET Group of Institutions** Ghaziabad

#### Dear Sir,

The Summer School on Real-Time Simulations and Application of OPAL-RT in Electrical Engineering was conducted in the Department of EN from 19th June, 2017 to 29th June, 2017.

Please find attached the following details of expenses incurred on the event.

- 1. Receipt and payment statement
- 2. Bills of kit folder and Refreshment
- 3. Annexure

The event was very successful and participants got immense benefit from this event. Yours faithfully,

Dr. Brijesh Singh Associate Professor & Summer School Coordinator

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## On **Real-Time Simulations and** Application of OPAL-RT in **Electrical Engineering**

A Summer School

(June 19-28, 2017)

**Organized** By Department of Electrical & Electronics Engineering **Organizing Head** 

Dr. Neeraj Kumar Gupta, Head of Department

Coordinator Dr. Brijesh Singh Associate Professor Contact: +91-8377825935 brijesh.singh@kiet.edu

Co-Coordinator Dr. Manoj Prasad Badoni Assistant Professor Contact: +91-8750613832 manoj.badoni@kiet.edu

#### Theme of School

It is known fact that the rapid growth of design and manufacturing industries required some new technologies for fast simulation and control of industrial processes and troubleshooting methodologies. In other words, real-time simulation is a need of a technician to achieve fast and accurate solutions during the operations and the Real-Time Digital Simulator (RTDS) provides an efficient platform. Most of the research and development industries are using this technology to achieve solutions in the real-time frame. Now a day, most of the technical students and researchers have already been using this technology worldwide. Therefore, the department has planned to conduct the motioned school. The summer school on Real-Time Simulations and Application of OPAL-RT is a skill development and training program in which experts will teach the designing and controlling concepts (theoretically and their practical approaches) of various electrical systems such as power systems, power electronics, electrical drives, control systems, signal and systems etc. After attending the school, students' will be able to design and develop some research models based on RTDS technology.

#### **Registration Fee**

The registration fee for the students (UG, PG and Research Scholars) is Rs. 750/-. A maximum number of students participating in the school is limited to 50 students. Acceptance of registration in school is on first come first serve basis. All participants are requested to complete registration before 31st May 2017. Payment of registration fee for participation in the school by cash payment in KIET Account Office or by paytm to +91-8377825935. The registration fee does not include any accommodation facility in the campus. (Please submit registration form and payment slip to the coordinators by June 05, 2017.)

#### **Important Dates**

**Registration Started:** Last date of registration: Starting of School: Ending of School:

May 5, 2017 May 30, 2017 June 19, 2017 June 28, 2017

Department of Electrical and Electronics Engineering KIET Group of Institutions, 13 Km Stone, Ghaziabad- Meerut Road (NH-58) Ghaziabad-201206, INDIA (UP) W: www.kiet.edu

# Dear participants,

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Please find four	
Please find following scheduled for Summer School on "Real-Time Simulations a OPAL-RT in Electrical Engineering" during June 19-28, 2017	and Application of
OPAL-RT in Electrical Engineering" during June 19-28, 2017.	

Jay	Date	The sugneeting du	ring June 19-28, 2017.
		Time	Event
		9:30am – 10:00am	Registration and Opening of Summer School by Head EN
		10:00am - 10:45am	Tea Break
Day 1		10:45am – 12:30pm	Lecture on "Introduction of Real Time Simulation and Use of OPAL-RT" Presented by Dr. Brijesh Singh
Day	19/06/2017	12:30pm – 1:30pm	Lunch Break
		1:30pm – 3:30pm	Lecture on "Introduction of Electrical Machines" Presented by
		3.20	Mr. Rajiv Kumar
		3:30pm – 3:45pm	Tea Break
		3:45pm – 4:30pm	Tutorial and Discussions
		9:30am - 11:00am	Lecture on "Introduction of Electrical Machines" Presented by Mr. Rajiv Kumar
		11:00am - 11:15am	Tea Break
Day 2	20/06/2017	11:15am – 12:30pm	Lecture on "Advance Electrical Machines and Industrial Applications" Presented by Mr. Rajiv Kumar
<b>v</b> –	20/00/2017	12:30pm - 1:30pm	Lunch Break
			Lecture on "Modeling of Electrical Machines using
		1:30pm – 3:00pm	MATLAB/SIMULINK" Presented by Mr. Rajiv Kumar
		3:00pm - 3:15pm	Tea Break
		3:15pm – 4:30pm	Tutorial and Discussions
			Lecture on "Introduction of Power Electronics" Presented by
		9:30am – 11:00am	Dr. Manoj Kumar Badoni
		11:00am – 11:15am	Tea Break
Day 3	21/06/2017	11:15am – 12:30pm	Lecture on "Advance Power Electronics and Applications" Presented by Dr. Manoj Kumar Badoni
2.19.0	21/00/2017	12:30pm – 1:30pm	Lunch Break
		1:30pm – 3:00pm	Lecture on "Use of MATLAB/SIMULINK in Power Electronics and Drives" Presented by Dr. Manoj Kumar Badoni
		3:00pm – 3:15pm	Tea Break
			Tutorial and Discussions
	· · ·	3:15pm – 4:30pm	Lecture on "Role of Real-Time Simulations in Power Electronics and
		9:30am – 11:00am	Drives" Presented by Dr. Manoj Kumar Badoni
		11:00am - 11:15am	Tea Break
Day 4	22/06/2017	11:15am – 12:30pm	Lecture on "Use of OPAL-RT for Real-Time Simulations in in Powe Electronics and Drives" Presented by Dr. Manoj Kumar Badoni
, Suj .		12:30pm – 1:30pm	Lunch Break
		1:30pm – 3:00pm	Tutorial and Discussions
		3:00pm – 3:15pm	Tea Break
		3:15pm – 4:30pm	Tutorial and Discussions
			Lecture on "Power Systems: Scope of Research & Development"
		9:30am – 11:00am	Presented by Dr. Brijesh Singh
		11:00am – 11:15am	Tea Break
		11:15am – 12:30pm	Lecture on "Power Systems: Scope of Research & Development"
Day 5	23/06/2017	12:30pm – 1:30pm	Lunch Break
			Lecture on "Modern Trends in Power Systems Operations and Rea
		1:30pm – 3:00pm	Time Simulations" Presented by Dr. Brijesh Singh
1		3:00pm – 3:15pm	Tea Break
		3:15pm - 4:30pm	Tutorial and Discussions
		9:30am – 11:00am	Lecture on "Power Systems Modeling and Design using MATLAB/SIMULINK" Presented by Dr. Brijesh Singh
		11:00am – 11:15am	Tea Break
D. I	24/06/2017	11:15am - 12:30pm	Lecture on "Power Systems Modeling and Design using
Day 6	24/06/2017	12:30pm – 1:30pm	Lunch Break
	· ·		Lecture on "Use of OPAL-RT Software for Real-Time Simulations
		1:30pm – 3:00pm	Power Systems" Presented by Dr. Brijesh Singh
		3:00pm – 3:15pm	Tea Break
		3:15pm – 4:30pm	Tutorial and Discussions
		5:15pm – 4:50pm	rucertar and Diseassens

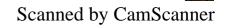
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			11. Mr. Apil Kumar
		9:30am – 11:00am	Lecture on "Introduction to Pspice" Presented by Mr. Anil Kumar
		11:00om 11:15om	Tee Breek
		11:15am – 12:30pm	Lecture on "Introduction to Pspice" Presented by Mr. Anil Kumar
Day 7	25/06/2017	12:30pm - 1:30pm	
	с <sup>о</sup> .	1.20 2.00	Lunch Break Lecture on "Xilinx ISE8.1 for digital circuits and FPGA" Presented
		1:30pm – 3:00pm	by Mr. Anil Kumar
		3:00pm – 3:15pm	Tea Break
		3:15pm – 4:30pm	Tutorial and Discussions
		0.20 11.00	Lecture on "Control Systems: Conventional vs. Modern
		9:30am – 11:00am	Applications" Presented by Dr. Brijesh Singh
	1	11:00am - 11:15am	
		11.15 10.20	Tea Break Lecture on "Role of MATLAB/SIMULINK in Control Systems"
D 0	2000000	11:15am – 12:30pm	Presented by Dr. Brijesh Singh
Day 8	26/06/2017	12:30pm - 1:30pm	Lunch Break
			Lunch Break Lecture on "Use of OPAL-RT for Real-Time Simulations in Control
		1:30pm – 3:00pm	Systems" Presented by Dr. Brijesh Singh
	-	3:00pm - 3:15pm	Tea Break
		3:15pm – 4:30pm	Tutorial and Discussions
		9:30am - 11:00am	Practical Session
		11:00am - 11:15am	Tea Break
	-	11:15am – 12:30pm	Practical Session
Day 9	27/06/201	7 12:30pm – 1:30pm	Lunch Break
		1:30pm – 3:00pm	Practical Session
		3:00pm – 3:15pm	Tea Break
		3:15pm – 4:30pm	Practical Session
		9:30am – 11:00am	Practical Session
		11:00am – 11:15am	Tea Break
		11:15am – 12:30pm	Practical Session
		12:30pm – 1:30pm	Lunch Break Discussion on use of OPAL-RT for future applications and scope in the
Day	10 28/06/201	1:30pm – 3:00pm	Discussion on use of OPAL-RT for future appreciation
			department
		3:00pm – 3:15pm	Tea Break Valedictory Session and Certificate Distribution
		3:15pm – 4:30pm	Valedictory Session and Certificate District

Dr. Brijesh Singh Coordinator Summer School

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#### A Summer School On Real –Time Simulation and Application of OPEL-RT in Electrical Engineering (June 19-28, 2017)

S.No.	Student Name	Email-id	Contact no.
1	Himanshu Chaturvedi	littledevil00776@gmail.com	9451081893
2	Naveen Pandey	Navneenpandey0078@gmail.com	9457633982
3	Aditya Singh Chauhan	aditya.1521013@kiet.edu	8423694338
4	Krishan kant Sharma	krishnaalgr@gmail.com	9045060658
5	Nitin Kumar	nitinkumarmaurya5757@gmail.com	9911252497
6	Prakhar Kartikey	kartikeyprakhar111@gmail.com	9899178299
7	Vaibhav Gupta	vaibhavgupta8196@gmail.com	9557384258
8	Mayank Singh	mayankpratap07@gmail.com	8755757796
9	Saurav Karanwal	robosaurav@gmail.com	9837710466
10	Avinash Pratap	apratapsingh078@gmail.com	9621353531
11	Piyush Kumar	pathakpiyush020@gmail.com	7417900927
12	Gaurav Singh	Gauravrathor321@gmail.com	9891606563
13	Deepak Yadav	deepak.1521062@kiet.edu	8266839126
14	Mayank Gaur	Mayankkmr28@hotmail.com	8604832865
15	Mohd. Dilshad	mhdilshad@gmail.com	9795678803
16	Abdul Rauf Khan	rauf09032@gmail.com	7251054090
17	Pragya Mishra	mishrapragya20298@gmail.com	7599115845
18	Pankaj Jaiswal	jpankaj365@gmail.com	7065137716
19	Surbhi Kumar	surbhi3728@gmail.com	9958075841
20 ·	Urvashi Singh	urvashi0197@gmail.com	9643701294
21	Namya Jha	Namya.ha@gmail.com	7065175245
22	Nikhil Goswami	goswaminikhil.98@gmail.com	7500034431

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	A Summer School on Real –Time Simulation and Application of OPEL-RT in Electrical Engineering (June 19-28, 2017) <u>Attendance</u>	Real –Time Simu	lation and	Application of <u>Attendance</u>	n of OPEL- ince	-RT in Ele	ctrical Eng	ineering	(June 19-	28, 2017)			
S. No.	Student Name	Contact no.	ă	Day 1  6/6		Day 2 10/6	Day	13 2416	Da	Day 4 246	Day	Day 5 23/6	
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