

# Report on Webinar on “Modeling, Simulation and Basics of Quantum Dot LED and Solar Cell”

Date: 12/07/2022

Department of Physics, Uka Tarsadia University, Bardoli organized the Webinar on Modeling, Simulation and Basics of Quantum Dot LED and Solar Cell (including Live Demo of Simulation) on 12/07/2022 (10:30 AM onwards). The resource person was Mr. Anil Sharma, Director, Impulse Technology, Hariyana, India. The webinar was organized and moderated by Dr. Jaymin Ray. There are total 67 participants (25 female and 42 male) from various institutes of national and international reputes. Mr. Anil Sharma explains the modeling & Simulation of Light Emitting Diodes (QD-LED, O-LED, Perovskite-LED) & Photovoltaic devices (Perovskites, Tandem, Thin Film, Organic) to calculate electrical, optical & emissive properties of semiconductor device using SETFOS (Swiss made Software). All the participants were actively engaged during the webinar and had participated in the question answer sessions.

**Department of Physics**  
Uka Tarsadia University  
is organizing

## Webinar

**Modeling, Simulation and Basics of Quantum Dot LED and Solar Cell**

**Resource Person**

**Anil Kumar Sharma**  
Director of Technical,  
Impulse Technology Ltd, Hariyana, India

**Moderator**

**Dr. Jaymin Ray**  
Assistant Professor, Department of Physics,  
Uka Tarsadia University, Bardoli  
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**Topics to be covered:**

- Building the solar cell & QD-LED device structure
- Set the electrical, emission & biasing parameter
- Single & multiple parameter optimization
- Set the optical & electrical material parameter
- Apply sun spectrum & biasing on electrode
- Parameter output Extraction
- Live Demo of Solar CELL & QD-LED Simulation**

**Date: 12 / 07 / 2022, Tuesday**  
**Time: 10 : 30 AM onwards**

Scan the QR code for  
**Registration**

Google meet link : [meet.google.com/oqq-vhoj-thh](https://meet.google.com/oqq-vhoj-thh)

