

REPORT

Webinar on FSOC: Design Challenges

**Jointly organized by
Department of Electronics and Communication Engineering**

On

19th JUNE 2020 | 11 :00 to 12:00 PM

@

Google Meet

Prepared By

A.Herald AP/ECE



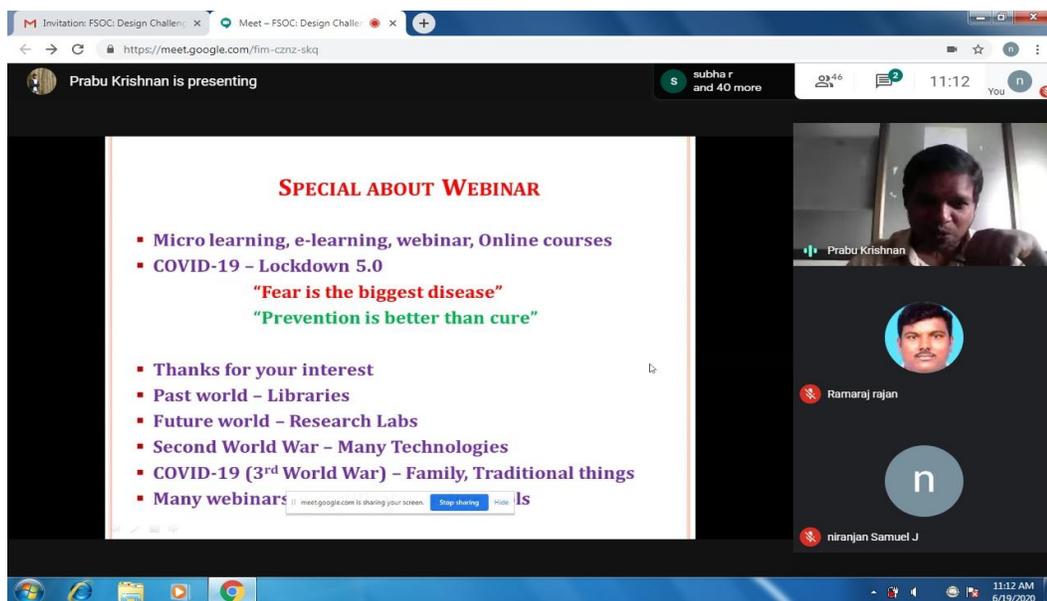
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Report:

Department of Electronics and Communication Engineering and R&D Section, has jointly organized a webinar on “**FSOC:Design Challenges** “on 19th June 11.00 to 12.00 PM @ Google Meet. **Dr.K.Prabu, National Institute of Technology, Suratkal, Karnataka**, was the resource person.

The main **objective** of the webinar was to disseminate the knowledge in the field of Free Space optical Communication (FSOC).

The webinar started by 11.00 a.m. as per the schedule with the registered participants from reputed institutions. Mr.J.Niranjen Samuvel JRF/ECE, welcomed the participants and Mr.S.Ramarajan, AP/ECE introduced the chief guest. The session began with talk about “**FSOC:Design Challenges**” by **Dr.K.Prabu**. In his lecture, he covered the **Importance,history,applications and Recent Trends of FSOC and also discuss the Challenges and Research avenues of FSOC**. All the participants were actively participated in the session. Participants interacted with the resource person using the chat window effectively to clear their queries and learn the concepts. The session ended at 12.30 p.m. with feedback. The entire programme was scheduled and coordinated by Mr.A.Herald,AP/ECE, Mr.S.Ramarajan, AP/ECE and Mr.J.Niranjan Samuel, JRF.



Webinar Presentation by Dr.K.Prabu, NIT-Suratkal,Karnataka.

Pre Process

The webinar process began on 12/06/2020. Poster and registration form links were circulated through WhatsApp and e-mail. Nearly 187 members from various Institutions registered for the webinar. Invitations and reminder were sent to all the registered participants.



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Punalkulam, Gandarvakottai Taluk, Pudukkottai District - 613 303.

Department of Electronics and Communication Engineering organizes

Webinar
on
FSOC : Design Challenges

For Registration



scan here



Dr. K. Prabu

Assistant Professor/ECE
National Institute of Technology-K,
Surathkal, Karnataka



E-Certificates will be provided

Coordinators

Mr. S. Ramarajan, AP/ECE | Mr. A. Herald, AP/ECE | Mr. J. Niranjan Samuel, JRF/ECE

Convener

Mrs. N. Mangaiyarkarasi
HOD/ECE

Patron

Dr. J. Arputha Vijaya Selvi
Principal

Poster of Webinar

Model Certificate:

 <p>INSTITUTION'S INNOVATION COUNCIL <small>(Ministry of IITs Initiative)</small></p>	 <p>KINGS COLLEGE OF ENGINEERING</p> <p>NAAC Accredited & ISO Certified Institution Recognized by UGC under 2(F) & 12(B) Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai Punakulam, Gandarvakottai Taluk, Pudukkottai District - 613 303.</p>				
 <p>IEEE STB16621</p>	<p>Webinar on Design of Solar PV System for Home Certificate</p> <p>This is to certify that Dr. G. Karthikeyan Sona College of Technology</p> <p>has participated in the Webinar on Design of Solar PV System for Home organized by Department of Electronics and Communication Engineering and R&D Section, Kings College of Engineering, Punakulam on 12-05-2020.</p> <p>Cert. ID: KCE-W-3-013</p> <table><tr><td>Co-ordinators Mr.P.Raja Pirian & Mr. J. Niranjan Samuel</td><td>HOD Mrs.N.Mangalyarkarasi</td><td>Principal Dr.J.Arputha Vijaya Selvi</td></tr></table> <p style="text-align: center;"><small>This is electronically generated certificate and does not need any signature</small></p>		Co-ordinators Mr.P.Raja Pirian & Mr. J. Niranjan Samuel	HOD Mrs.N.Mangalyarkarasi	Principal Dr.J.Arputha Vijaya Selvi
Co-ordinators Mr.P.Raja Pirian & Mr. J. Niranjan Samuel	HOD Mrs.N.Mangalyarkarasi	Principal Dr.J.Arputha Vijaya Selvi			

Prabu K

Assistant Professor

Department of Electronics and Communication Engineering

National Institute of Technology Karnataka - Surathkal

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**E-mail: prabuk [at] nitk [dot] edu [dot] in
nitprabu [at] gmail [dot] com**

Professional Experience:

Total: 8 years

Academic Background

Ph.D.: National Institute of Technology (NIT), Tiruchirappalli, April 2015,

M.E: Madras Institute of Technology (MIT), Anna University, 2010,

B.E: Anna University, Chennai, 2007.

Areas of Interest

- Wireless Optical Communication (FSO, VLC, Underwater)
- Optical Communication
- Wireless Communication
- Optical Sensors
- Nano-Photonics
- Photonic Crystal Fibers
- 5G
- Antennas
- IoT
- AI Enabled Wireless Communication

Significant Projects

1. Project Title: Performance Analysis and Enhancement of Radio over Free Space Optical Communication System for 5G Applications for Smart Cities

Role : Principal Investigator

Duration : 2019 - 2021

Funding Agency : SERB - DST, Govt of India

Total Budget : Rs. 28,06,000/-

Supervision of Ph.D

1. N Vijaya Ratnam

2. Bhargav Kumar

3. Santhosh A Janawade

4. Abhishek Kumar

Number of Publications

International Journals:50

Books

1. “Microwave Engineering Theory and Techniques” – David M Pozar, Wiley, WILEY India
Adaptation, Content contribution for Indian Adaptation by Prabu K, Santosh A. Janawade.

Book Chapters

1. A chapter author for a book “Principles and Applications of Free Space Optical Communication”, IET Publications. Title of the chapter is “Performance analysis and mitigation of turbulence effects using spatial diversity techniques in FSO systems over combined channel”, 2019.
2. A chapter author for a book “Turbulence and Related Phenomena”, IntechOpen. Title of the chapter is “Performance analysis of FSO systems over atmospheric turbulence channel for Indian weather conditions”, 2019.

International Conferences:10

Achievements

- o Awarded Government of “India's University Grant Commission (UGC)” Fellowship during my Master of Engineering [2010-12]
- o Recipient of “Technical Education Quality Improvement Programme (TEQIP)” Scholarship [2012-2015] for Ph.D.
- o Awarded “TEQIP International Foreign Travel Grant” for visiting Laboratory facilities at NTU Singapore, attending an International Conference ICWOC 2014, NTU Singapore.
- o Recipient of “Good Researcher” awards at VIT University Vellore for the last two consecutive years 2017 and 2016.
- o Recipient of “Good Reviewer” award from Elsevier during 2015.
- o Invited speaker for Inauguration of IEEE Photonics Chapter – Chennai Section, VIT University, Chennai, 2017.
- o Invited speaker for Inauguration of One-day Lectures on Optical Wireless Communications (WOC), sponsored by IEEE Photonics Chapter – Bangalore chapter, IISc, Bangalore, Dec., 2018.

Professional Membership:

1. Senior Member, IEEE