

**Alva's Institute of Engineering and Technology**  
**Dept. of Electronics and Communication Engineering**



*We cordially invite you to the*

Technical Talk on

## ***PROGRAMME SCHEDULE***

- Invocation
- Welcome Speech
- Introduction of Chief Guest
- Technical talk
- Honoring the chief guest
- Vote of thanks

## **"OPTICAL COMMUNICATION NETWORKS AND PATENTING RIGHTS"**

**by**

**Dr. Muralidhara Kulkarni**  
Professor, Dept. of ECE,  
NITK Surthkal

Venue: Engg. Seminar Hall

Date: 3<sup>rd</sup> March 2018 by 11 AM

**Mr. Sudhakara H M**

**Mr. Aneesh Jain**

Technical Coordinator

**Dr. D V Manjunatha**

H.O.D.

**Staff & Students**  
**Department of E & C Engineering**



## Optical Communication Networks and Patenting Rights

The third technical talk by the Dept. of ECE for this even semester was conducted on 3<sup>rd</sup> March 2018 by **Dr. Muralidhar Kulkarni, Professor, Dept. of ECE, NITK Suratkal** on the topic “**Optical Communication Networks and Patenting Rights**” for the students of sixth semester. The formal inaugural function was graced by the presence of Head of the Dept. Dr. D V Manjunatha and Dr. Richard Pinto, Professor, Dept. of ECE. Dr. Kulkarni has served in various capacities in industry and teaching for the last 35 years.



**Welcoming resource person for the talk**



**Inauguration Ceremony of Talk**

He has held the positions of Scientist in Instrumentation Division at the Central Power research Institute, Bangalore, Aeronautical Engineer in Avionics group of Design and Development team of Advanced Light Helicopter (ALH) project at Helicopter Design Bureau at Hindustan Aeronautics Limited (HAL), Bangalore, Assistant Professor at the Electrical Engineering Department of UVCE, Bangalore and as an Associate Professor in ECE Department at the Delhi College of Engineering (DCE), Delhi. He also established the IIIT, Dharwad to take forward IIIT as an institute of



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excellence in 2015 as its OSD Presently he is Prof Incharge of Training and Placements at NITK.



**Resource person delivering talk to the gathering**

The talk begun with briefing the evolution in information systems, fundamentals of Optical Fiber Communication. He stressed on the need for optical communication to satisfy the exploding demand for bandwidth in multiservice network which includes remote access outsourcing, wireless voice/data services, business extranet service, e-commerce, banking and entertainment are few amongst numerous applications. The talk continued by discussing the technology behind OFC like WDM, Bit Error Rate, Dispersion in Fiber Optics and challenges faced in this field. The talk proceeded by highlighting the advances in OFC which SONET, Fiber Distributed Data Interface, Dual Queue



**QA Session in the talk**

Distributed Bus and more advanced systems like Trans Atlantic Telecommunications. The expert made the students to realize the growing demand of OFC and necessity to



Shobhavana Campus, Mijar, Moodbidri, D.K - 574225

Phone: 08258-262725, Fax: 08258-262726

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understand this niche area being an electronics and communication engineer. The students were encouraged to pursue their final year academic projects in the area of Fiber optics and patenting rights. The talk concluded by discussing few ongoing research in NITK and also the interested students were invited to the campus to make use of the available resources.

**Outcome:** Students enlighten about Optical Communication Networks and Patenting Rights, which helps them to take up further project, placements and in higher studies.

  
Coordinator



Head of the Department

Dr. D V Manjunatha

R.O.D.  
Dept of Electronics & Communication  
NITK Institute of Engg & Technology  
Mijar, MOOBBIDRI - 574 225