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DEPT. OF ELECTRONICS & COMMUNICATION ENGINEERING

Ref: AIET/2017-18/IPR/ECE/02

Date: 02/03/2018

To

The Principal

Alva's Institute of Engineering and Technology

Mijar Moodbidri 574225

Respected Sir

Sub: Requisition to conduct a talk on Optical Communication Networks and Patenting Rights.

With reference to the above subject I request you to permit me to conduct a talk on "Optical Communication Networks and Patenting Rights" by Dr. Muralidhar Kulkarni, Professor, Dept. of ECE, NITK Suratkal, in order to inculcate the research and patenting knowledge among the students on 3rd March 2018. Kindly oblige and do the needful.

Thanking you

HOD

Dr. D V Manjunatha

H. O. D.

Bept: Of Electronics & Communication Alva' i Institute of Engg. & Technology Mijar MOODSIORI - 574 225

PRINCIPAL structe of Engg. & Technology,



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DEPT. OF ELECTRONICS & COMMUNICATION ENGINEERING

Date: 02/03/2018

To,

Dr. Muralidhar Kulkarni,

Professor, Dept. of ECE,

NITK Suratkal,

Dear Sir,

Sub: Invitation for a talk on "Optical Communication Networks and Patenting Rights".

I am pleased to have the honour of inviting you for a talk on "Optical Communication Networks and Patenting Rights" for our institute technical activity We have arranged your lecture at our institution on 03rd March 2018. Kindly accept our request as a guest speaker

Thanking You

With warm regards

Principal PRINCIPAL

'a's Institute of Engg. & Technology, while, MOUDBIDRI - 574 225, D.N.



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DEPT. OF ELECTRONICS & COMMUNICATION ENGINEERING

Ref: AIET /2014-18/IPR/ECE/02

Date: 2/3/2018

Circular

It is hereby informed all the A & B semester students to that there will be a talk on "Optical Communication Networks and Patenting Rights" by **Dr. Muralidhara Kulkarni** Professor, Dept. of ECE,NITK Surthkal on 3rd March 2018 in Engineering Seminar Hall Main Block by 11 AM. So all must present attendance will be monitored.

Mr. Sudhakara H M & Mr. Ancesh Jain

Technical Coordinator

D.V.

Dr. D V Manjunatha

H.O.D.

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dept. of Electronics and Communication Engineering



"OPTICAL COMMUNICATION
NETWORKS AND PATENTING
RIGHTS"

To,

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



We cordially invite you to the

Technical Talk on

"OPTICAL COMMUNICATION NETWORKS AND PATENTING RIGHTS"

by

Dr. Muralidhara Kulkarni

Professor, Dept. of ECE, NITK Surthkal

Venue: Engg. Seminar Hall

Date: 3rd March 2018 by 11 AM

Mr. Sudhakara H M

Mr. Aneesh Jain Technical Coordinator

H.O.D.

Dr. D V Manjunatha

PROGRAMME SCHEDULE

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

Staff & Students Department of E & C Engineering



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Department of Electronics and Communication Engineering

Optical Communication Networks and Patenting Rights

The third technical talk by the Dept. of ECE for this even semester was conducted on 3rd 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 AATTA O AAAOCACACO OA MARBAMOUAAAR W A OUMANUNGJ



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understand this niche area being a 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

A.O.D.

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Institute of Engg & Technology

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Dr. Muralidhar Kulkarni

Designation: Professor (HAG)
Date of Joining at NITK:
Monday, March 17, 2008
Professional Experience:

Total Experience: ≈ 40 years

Teaching & Research : \approx 34 years

Industry: ≈6 years

- i) Professor (HAG), Dept. of ECE, NITK, Surathkal- (since October 2018)
- ii) Member, BOG (Board of Governors) NITK, Surathkal (10th Nov.2018 9th Nov.2020).
- ii) Professor, Dept. of ECE., NITK, Surathkal (since March 2008).
- iii) Professor In-charge :Training and Placement, NITK (June, 2016-April 2018).
- iv) Officer on Special Duty (OSD), Indian Institute of Information Technology, Dharwad (On deputation) (Aug.2015 Feb.2016).
- v) Head, Dept. of ECE, NITK, Surathkal (April, 2011-March 2014).
- vi) Coordinator, Center of Excellence(CoE) in Wireless Sensor Networks (Dec. 2010 Till date)
- vii) Faculty Incharge Internal Telephone Exchange & BSNL Centrex Facility, NITK, Surathkal (May 2008- Apr.2014).
- viii) Assoc. Prof., Dept. of ECE./ Head of IT Dept./Head, Computer Center, DTU (DCE), Delhi (1994 2008).
- ix) Asst. Professor, Dept. of Electronics Engg., University Visvesvaraya College of Engineering(UVCE), Bangalore (1988 1994).
- x) Aeronautical Engineer, Avionics, ALH Project, Helicopter Design Bureau, HAL, Bangalore (1984 1988).
- xi) Scientist III, Instrumentation Division, Central Power Research Institute, Bangalore (1981-1982).



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mkul@nitk.edu.in, mkuldce@gmail.com

Telephone:

Tel: 0824-2473501(D) Telefax: (+91) (824) 2474033

HideFaculty (author) Identifiers

ORCID iD:

Muralidhar Kulkarni

Scopus Author ID:

Muralidhar Kulkarni

WoS/publon Researcher ID:

Web of Science ResearcherID AAJ-1318-2020

Hide Academic Background

PhD (ECE):JMI Central University, New Delhi, M.Tech (Satellite Communication &

Remote Sensing): IIT, Kharagpur, BE (Electronics Engg.), University Visvesvaraya

College of Engg., Bangalore, Membership of Professional Societies: 1. Senior Member,

IEEE. 2. Fellow, IETE. 3. Life Member ISTE. 4. Life Member CSI

HideAreas of Interest

Digital Communications and Networks (OFDM, WSN, SDN, Congestion Control, 5G Networks, IOT)

Optical Communications & Networks (FSO), Microwave and Antenna Systems.

HideSignificant Projects

COMPLETED PROJECTS:

- 1. "Secure, Turbulence Resistant, Free Space Optical (FSO) Links for Broadband Wireless Access Networks" at NITK, Surathkal sponsored by Ministry of Information and Communication Technology, New Delhi, India, 2010- 2013. (Rs. 130.5 lakhs) Investigator. (Successfully Completed).
- 2. "Feasibility study and implementation of a pilot project of Broadband over Power Lines (BPL) for Rural Information Centers", at Delhi College of Engineering (DCE), Delhi sponsored by MIT, New Delhi, India, 2007-2008 (Rs.100 lakhs), Investigator. (Successfully Completed).
- **3. MISSION REACH Center Of Relevance and Excellence (CORE) on Optical Communications and Networks** of Dept. of Science and Technology Govt. of India at



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Delhi College of Engineering (DCE), 2004-2007 (Rs.250 lakhs), Coordinator. (Successfully Completed).

Current Projects:

- 1. **ISRO RESPOND Project "Programmable photonic microwave signal generation using on-chip spectral shaper for satellite communication"** has been recommended for funding support of Rs.22,51,203/-, Sept.2021, PI: Dr. Mandeep Singh, Co-PI: Prof. Muralidhar Kulkarni.
- **2. DST-FIST Project - Advanced Research Lab in RF Communications and Networks -** 2016-2020 (Rs. 118 Lakhs) [DST, Govt. of India]. (Was submitted as a Departmental Project).

Projects Applied for funding:

- 1."Home of Nurturing and Healthcare At Rural areas (HONHAR)" (under Cyber Physical System area) project proposal submitted to MeiTY (Ministry of Information and Communication Technology), Project Proposals for R&D in CC & BT and Strategic Electronics for Financial Year 2020-2021, Govt. of India.
- 2. "Design, Development and Characterization of Massive MIMO systems for next generation (5G and beyond) Wireless Communication Systems" project proposal submitted to MeiTY (Ministry of Information and Communication Technology), Project Proposals for R&D in CC & BT and Strategic Electronics for Financial Year 2020-2021, Govt. of India.

HideSupervision of Ph.D

Total PhDs - 13 (Thirteen)

PhDs Awarded - 08 (Eight)

PhDs submitted Waiting for Reports: 02(Two)

On-going - 03(Three)

PhDs Awarded:

- 8. Ms. Deepa Puneeth: Thesis Title: Data Aggregation and Secured Routing in Wireless Sensor Networks(2021).
- 7. Kharat Prashant Krishna Rao : Title: Modified QUIC Protocol with Congestion Control for Improved Network Performance(2019).
- 6. Mr. Jaspal Kumar, Title: "Novel Routing Techniques for Ad-hoc Networks" University of Delhi, Delhi (2016).



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- 5. Dr. K S Shivaprakash, Thesis Title: "Energy Efficient Data Communication over Resource Constrained Wireless Sensor Networks".NITK, Surathkal (2015)
- 4. Dr. Geetha Prakash, Thesis Title: "Rateless Codes For Transmission Over Free Space Optics Using Stochastic Models Based On Scintillation Theory And Their Application To Wireless Sensor Networks". NITK, Surathkal (2014)
- 3. Dr. Lwaa Faisal Abdulameer, Thesis Title: "Analysis and Design of chaotic sequences for enhancement of security of FSO and RF wireless communication links".NITK,Surathkal(2014)
- 2. Dr. Savitha H M, PhD Thesis entitled "Energy Efficient Error Control Techniques For OFDM Systems With Their Applicability To Power Line And Wireless Communication Channels". NITK, Surathkal (2013)
- 1. Dr. Om Prakash Verma, PhD Thesis entitled "Image Processing using soft computing and evolutionary algorithms", University of Delhi, Delhi. (2011).

PhD Thesis Submitted:

- 1. Mr. Naveen Jacob, Area of Research: "Metamaterial Inspired Reconfigurable Antenna for Cognitive Radio Applications". Co-Guide: Dr. Krishnamoorthy, Asst. Professor,
- 2.Mr. Geriki Polaiah, Area of Research: "An Efficient Low-Power Rectifier Integrated Antennas for RF Energy Harvesting and Autonomous Frequency Reconfiguration" Co-Guide: Dr. Krishnamoorthy, Asst. Professor.

PhD Under Progress:

- 1. Ms. Asha H Area of Research: "Efficient and dynamic scheduling strategies in time sensitive networks for real time applications" (External Registration) Co-Guide: Dr. Hariram Satheesh, M/s. ABB, Bangalore.
- 2. Ms.Deeksha, Area of Research: "Congestion Control and Message Dissemination in Vehicular Ad-hoc Networks"
- 3. Mr. Bodempudi Nagasivaprasad, Area of Research: "Modeling and Analysis of Reconfigurable Intelligent Surfaces for Indoor and Outdoor Applications in Future Wireless Networks". Co-Guide: Prof. Asvini Chaturvedi, Dept. of ECE.



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Technical Talk Attendance

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Technical Talk Coordinator



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Department of Electronics and Communication Engineering

Technical Talk Attendance

8¹¹¹ SEM EC (B - SECTION)

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Technical Talk Coordinator

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