

K.S.R.M. COLLEGE OF ENGINEERING

(AUTONOMOUS) Kadapa, Andhra Pradesh, India– 516 003

<u>DEPARTMENT OF ECE</u>

Report on

A Two-Day Workshop on "Photonics" (Virtual Mode)

(In association with IEEE Photonics Society, Bangalore Chapter) 28-29 June, 2021

Electronic and communications engineering is the utilization of science and math applied to practical problems in the field of communications. Can we imagine our daily life without mobile phone, laptop (computer), television, tablets, digital watch, internet banking, ATM cards, Wi-Fi, internet connection, microwave Owen and many more gadgets and communication systems. No, we cannot. All these are possible due to Electronics & Communication Engineering (ECE). As we look into future, robots will also be part of our lives very soon and embedded electronics which is a sub branch of electronics play an important role in this. All of this makes ECE an interesting field to study and work.

Electronics & Communication Engineering deals with the electronic devices, circuits, communication equipment's like transmitter, receiver, integrated circuits (IC). It also deals with basic electronics, analog and digital transmission & reception of data, voice and video (Example AM, FM, DTH), microprocessors, satellite communication, microwave engineering, antennae and wave progression.

About Workshop:

Photonics is the science and technology of using light, with applications ranging from optical communications, sensors, biomedical and quantum computing. In this workshop introductory lectures will be given in some emerging topics in photonics. It will be useful to students and faculty members who what to know the basics and recent developments in Photonics. In particular you

will find ideas to take up projects or research work. The workshop is technically supported by

IEEE Photonics Society Bangalore Chapter.

Description about the event:

The event started with the formal Inaugural function at 9.30 AM in Virtual mode (Google Meet).

Dr. V. S. S. Murthy (Principal), Prof. A. Mohan (Director), Dr. T. Srinivas (Associate Professor,

ECE, IISc, Bangalore), Dr. G. Hemalatha (HOD, ECE) presided over the inaugural function. The

event started with Welcome speech and a brief report on workshop was given by

Dr. G. Hemalatha, HOD of ECE, followed by presidential address given by Principal, director and

esteemed chief guest. The chief guest addresses the importance of Photonics and given suggestions

and ideas for doing projects on photonics. The inaugural function ended with a Vote of thanks.

Valedictory function started at 3.20pm. Students had given their feedback on the workshop. The

function was finally ended by expressing sincere thanks to Resource persons, management,

director, Principal, HOD, Faculty, faculty coordinators and student coordinators for their

co-operation and active participation.

Students from B. Tech 3rd & 4th year ECE were participated in this workshop. Six Speakers from

reputed Engineering colleges has delivered their talks on Photonics.

28-6-2021 Monday- Day1 (9.30 AM-4.30 PM)

Session 1(10.00 am-11.15am)

Dr. T. Srinivas, Associate Professor, ECE, Indian Institute of Science, Bangalore.

tsrinu@ece.iisc.ernet.in

Talk: Photonic Integrated Circuits

Session 2 (11.30am-12.45pm)

Dr. G. Thavasi Raja, Assistant Professor, National Institute of Technology, Trichy, Tamil Nadu.

thavasi@nitt.edu

Talk: Fiber optics and applications

Session 3 (1.45pm-3.00pm)

Dr. Mandeep Singh, Assistant Professor, NITK, Surathkal, Mangalore, Karnataka, India.

mandeep.singh@nitk.edu.in

Talk: Recent trends in "Microwave Photonics"

Session 4 (3.15pm-4.30pm)

Dr. Venkatesha M, Associate Professor, Senior Member IEEE, Department of ECE Sai Vidya Institute of Technology, Bangalore.

venky.svit@gmail.com

Talk: Advancements of Photonic Crystal Fibers for Sensing Applications

29-6-2021 Tuesday-Day2 (9.30 AM-4.00PM)

Session 5 (9.30am-10.45am)

Dr. D. Sriram Kumar, Professor, National Institute of Technology, Tiruchirappalli, Tamil Nadu. srk@nitt.edu

Talk: Optical Wireless Communications

Session 6 (11.00 am-12.15 pm)

Dr. T. Srinivas, Associate Professor, ECE, Indian Institute of Science, Bangalore.

tsrinu@ece.iisc.ernet.in

Talk: Quantum Communications and Computing

Extra Talk: Awareness on IEEE

Session 7 (1.45pm-3.00pm)

Dr K V S S S Sai Ram, Professor, NMAM Institute of Technology (Autonomous), Udupi, Karnataka.

drsairam@nitte.edu.in
Talk: Optical Networks

List of Participants:

S. No.	Name	Roll No.	College Name
1.	Kongani Kiran	189y1a0464	K. S. R. M COLLEGE OF ENGINEERING
2.	M. Sai Krishna	189Y1A0474	K. S. R. M COLLEGE OF ENGINEERING
3.	A. Devadharshini	devajain08@gmail.	Mother Teresa Women's University
4.	T Srinivas	tsrinu@iisc.ac.in	IISc, Bangalore
5.	Ganganapalli Sai Thanuj	189y1a0439	K. S. R. M COLLEGE OF ENGINEERING
6.	Mamatha Chabala	199Y5A0405	K. S. R. M COLLEGE OF ENGINEERING
7.	Gontumukkala Jyothirmayee Sai Prasanna	189y1a0444	K. S. R. M COLLEGE OF ENGINEERING
8.	Dasari Sivani	189y1a0431	K. S. R. M COLLEGE OF ENGINEERING
9.	Depatla Vinay Kumar	199y5a0406	K. S. R. M COLLEGE OF ENGINEERING

10.	Bandari Sai Harsha Vardhan	189Y1A0410	K. S. R. M COLLEGE OF ENGINEERING
11	Kamireddy Bharathi	189Y1A0457	K. S. R. M COLLEGE OF ENGINEERING
12	K. Shilpa	189y1a0452	K. S. R. M COLLEGE OF ENGINEERING
13	Yellala Palguna Reddy	189Y1A04G1	K. S. R. M COLLEGE OF ENGINEERING
14	Jonnalagadla Hema Latha	189y1a0451	K. S. R. M COLLEGE OF ENGINEERING
15	Shaik Sohail	199y5a0422	K. S. R. M COLLEGE OF ENGINEERING
16	A. Ganga Mamatha	199y5a0403	K. S. R. M COLLEGE OF ENGINEERING
17	Bonamsetty Jahnavi	bonamsettyjahnavi @gmail.com	K. S. R. M COLLEGE OF ENGINEERING
18	Bathala kowsalya	189y1a0412	K. S. R. M COLLEGE OF ENGINEERING
19	Chappidi Charitha	chappidicharitha20 01@gmail.com	K. S. R. M COLLEGE OF ENGINEERING
20	Galigutta Vidya	179y1a0447	K. S. R. M COLLEGE OF ENGINEERING
21	Thondaladinne Moula	199Y5A0428	K. S. R. M COLLEGE OF ENGINEERING
22	Budda Sreekanth Reddy	189Y1A0423	K. S. R. M COLLEGE OF ENGINEERING
23	Galiveeti Manoj Kumar Reddy	189y1a0437	K. S. R. M COLLEGE OF ENGINEERING
24	Gangala Mounika	189Y1A0438	K. S. R. M COLLEGE OF ENGINEERING
25	Kanaparthi Divya	189Y1A0458	K. S. R. M COLLEGE OF ENGINEERING
26	Yarraguntla Obul Reddy	189y1a04f9	K. S. R. M COLLEGE OF ENGINEERING
27	Gannamaneni Charan Naidu	199y5a0408	K. S. R. M COLLEGE OF ENGINEERING
28	Yalakara Prashanth	kirakprashanth30@ gmail.com	K. S. R. M COLLEGE OF ENGINEERING
29	Syed Mohammed Tahir	189y1a04e1	K. S. R. M COLLEGE OF ENGINEERING
30	Shaik Arsheen	189Y1A04C7	K. S. R. M COLLEGE OF ENGINEERING
31	Lakkireddy Sai Pranavarshitha	189y1a0473	K. S. R. M COLLEGE OF ENGINEERING
32	Chillathoti Keerthi	179y1a0432	K. S. R. M COLLEGE OF ENGINEERING
33	P. Hima Bindhu	189y1a04a5	K. S. R. M COLLEGE OF ENGINEERING
34	Dara Sekhar	179y1a0435	K. S. R. M COLLEGE OF ENGINEERING

35	Anuguru Vineela	179y1a0408	K. S. R. M COLLEGE OF ENGINEERING
36	M. Reddy Amrutha Bhavani	189y1a0484	K. S. R. M COLLEGE OF ENGINEERING
37	Mukkamala. Yukthamuki	189y1a0489	K. S. R. M COLLEGE OF ENGINEERING
38	Bandi Nikhil Kumar	179y1a0417	K. S. R. M COLLEGE OF ENGINEERING
39	Chavva Jaswitha	179y1a0429	K. S. R. M COLLEGE OF ENGINEERING
40	A. Prathyusha	179y1a0409	K. S. R. M COLLEGE OF ENGINEERING
41	Sainath Balam	179y1a0413	K. S. R. M COLLEGE OF ENGINEERING
42	Manjula Pavani	189y1a0482	K. S. R. M COLLEGE OF ENGINEERING
43	Palem Gayathri Devi	189Y1A04A4	K. S. R. M COLLEGE OF ENGINEERING
44	Bhumireddy Kuntolla Suresh	179y1a0424	K. S. R. M COLLEGE OF ENGINEERING
45	B. Babu prasad	179y1a0412	K. S. R. M COLLEGE OF ENGINEERING
46	Ambati Gurusiva	179y1a0403	K. S. R. M COLLEGE OF ENGINEERING
47	AM. Vinay Kumar	179Y1A0405	K. S. R. M COLLEGE OF ENGINEERING
48	Bandi. Naveen Kumar	179y1a0416	K. S. R. M COLLEGE OF ENGINEERING
49	G B S Uma Maheswara Reddy	179y1a0442	K. S. R. M COLLEGE OF ENGINEERING



K.S.R.M. COLLEGE OF ENGINEERING

KSNR

Photonics

(Autonomous)
Kadapa, Andhra Pradesh, India- 516 003
Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING In Association With

A TWO-DAY WORKSHOP ON "PHOTONICS" (Virtual Mode) **GUEST SPEAKERS**



Dr. D. Sriram Kumar, Professor, ECE National Institute of Technology Tiruchirappalli Tamil Nadu, INDIA



Dr. T. Srinivas Associate Professor ECE, Indian Institute of Science Bangalore.



Society Dr Venkatesha M Associate Professor, ECE Senior IEEE Member Sai Vidya Institute Of Technology Bangalore



Dr. Mandeep Singh, Assistant Professor, ECE NITK, Surathkal Mangalore, Karnataka, India



Dr. G. Thavasi Raja, Assistant Professor, ECE National Institute of Technology Tiruchirappalli Tamil Nadu, INDIA



Dr K V S S S S Sai Ram, Professor, E & C NMAM Institue of Technology (Autonomous Affliated to VTU) Karkala Taluk, Udupi Karnataka.

DATE: 28-6-2021 & 29-06-2021

Co-Ordinator: Miss Shalk Jabeen Assistant Professor

Co-coordinators: Dr. S. Zahiruddin Assistant Professor



ksrmceofficial

Dr. V.S.S. Murthy

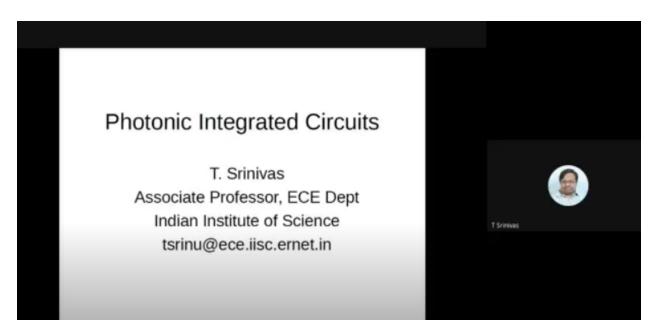
Sri K. Madan Mohan Reddy



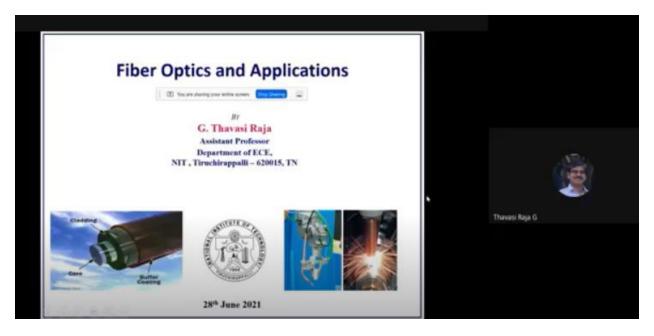
Prof. G. Hemalatha, HOD of ECE Dept. addressing the Gathering



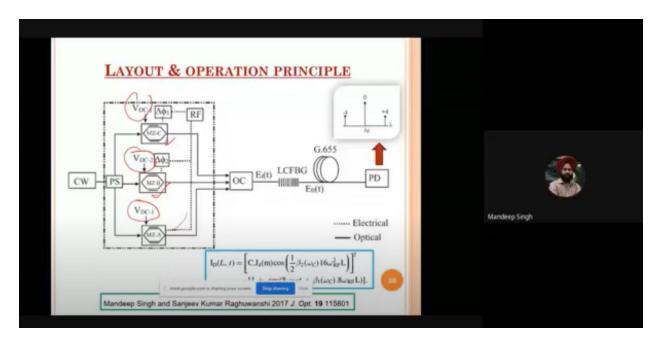
Hon' Chief Guest Dr. T. Srinivas, Associate Professor, ECE, IISc, Bangalore addressing in the inaugural event



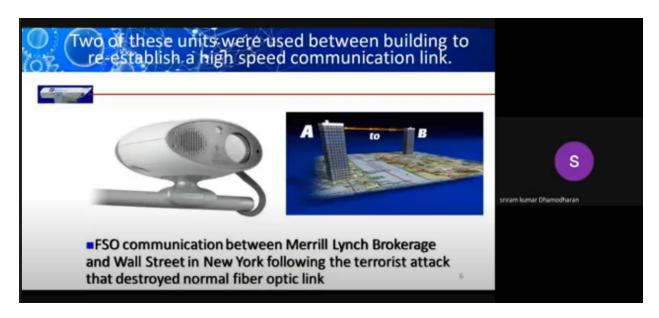
Dr. T. Srinivas, Associate Professor, ECE, IISc, Bangalore delivering the talk on Photonic Integrated Circuits.



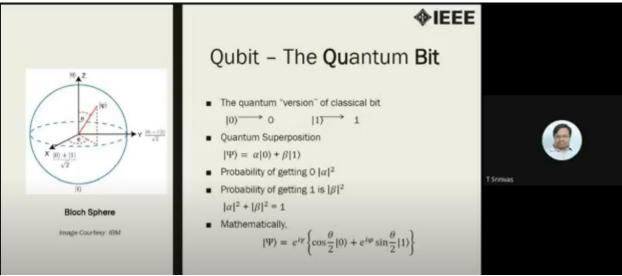
Dr. G. Thavasi Raja, Assistant Professor, National Institute of Technology, Tiruchirappalli, Tamil Nadu delivering the talk on Fiber optics and applications.



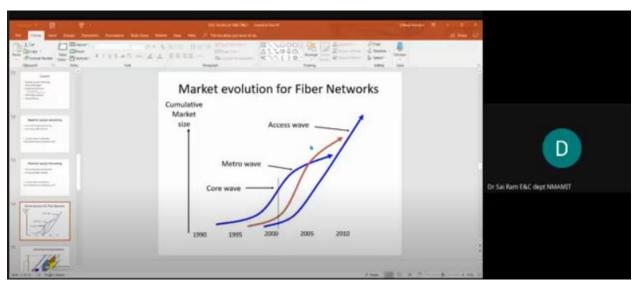
Dr. Mandeep Singh, Assistant Professor, NITK, Surathkal, Mangalore, Karnataka, India delivering the talk on Microwave Photonics.



Dr. D. Sriram Kumar, Professor, National Institute of Technology, Tiruchirappalli, Tamil Nadu delivering the talk on Optical wireless communication.



Dr. T. Srinivas, Associate Professor, ECE, Indian Institute of Science, Bangalore delivering the talk on Quantum communication and computing.



Dr K V S S S Sai Ram, Professor, NMAM Institute of Technology (Autonomous), Udupi, Karnataka delivering the talk on optical networks.

Feedback: All the participants expressed their gratitude to HOD, ECE for organizing this workshop and giving an exposure on emerging technologies in Photonics from eminent speakers.

Future Perspective:

The department of Electronics & Communication Engineering is looking forward to organize the workshops/seminars/guest lectures on Recent trends and advancements in technology.

Report Submitted by:

Co-Ordinator: Miss S. Jabeen, Assistant Professor/ECE Co-coordinators: Dr. S. Zahiruddin, Assistant Professor/ECE

Smt. S. Sharmila Banu, Assistant Professor/ECE