IEEE PHOTONICS SOCIETY STUDENT BRANCH



Faculty Adviser: Dr.Sangeetha R.G

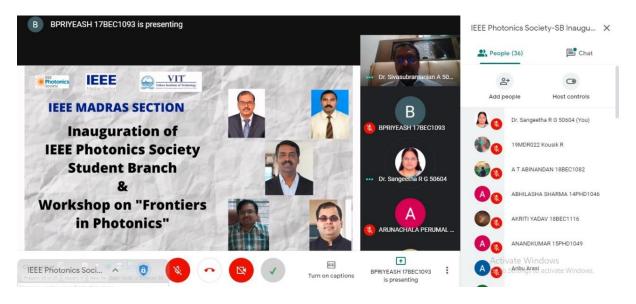


Chairman Vice-Chairman Secretary Treasurer

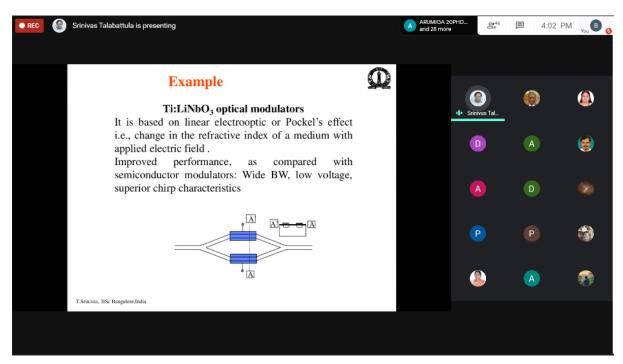
Mr.Priyeash Bala Mr.Arjun Sharma Ms.Vaishnavi Singh Mr.Shankar.S

Inauguration of Photonics Student Chapter and Workshop on "FRONTIERS IN PHOTONICS" – 27/10/2020

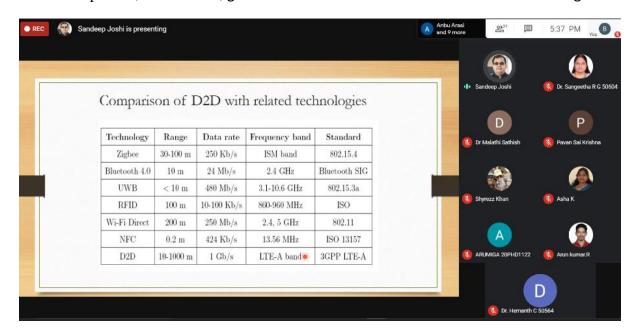
The Chapter was inaugurated by Dr. N. Kumarappan, Chairman, IEEE Madras Section, Dr. C. Arunachalaperumal, Chairman, IEEE Photonics Society Madras Section. Dr.T.Srinivas Professor IISc, Bangalore, Chairman Prakash Bharti, Dr. Sandeep Joshi, BITS Pilani, Dr. Sangeetha R.G, student branch advisor. Dr.Sivasubramanian.A, Dean SENSE, VIT Chennai.



Dr. T. Srinivas, IISc Bangalore, gave a talk on Photonics and its properties



Dr. Sandeep Joshi, BITS Pilani, gave a lecture on the latest communication technologies



IEEE PHOTONICS SOCIETY STUDENT BRANCH organized "LIGHT & SHADOW" on 20/12/2020

Participants:

- Total of 22 members participated
- Maximum of 2 members in a team

Winners:

- 1st prize Vassanthitha
- 2nd prize Nilesh. V
- 3rd prize Bhavithrah Jegan & M.Erin Churchill



IEEE PHOTONICS SOCIETY STUDENT BRANCH organized "CAN YOU CODE IT?" on 13/03/2021

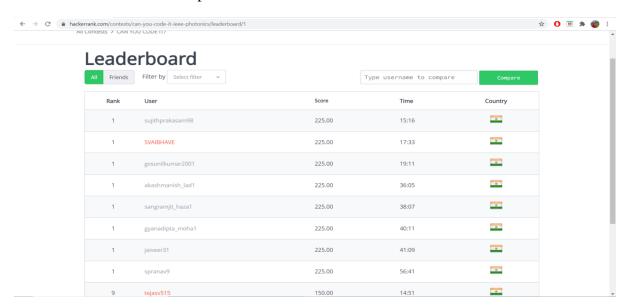
Participants:

- Total of 127 members participated which included both VITians and Non-VITians
- Individual event

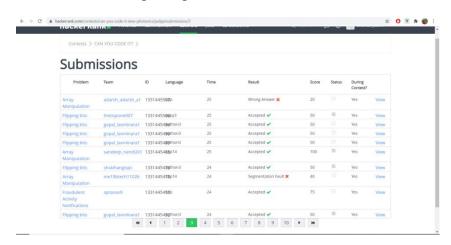
Winners:

- 1st prize Sujith K P
- 2nd prize S Vaibhave
- 3rd prize Sunil Kumar GV

Leaderboard on Hackerrank platform



Submissions of the participants



IEEE PHOTONICS SOCIETY STUDENT BRANCH organized a webinar on "5G TECHNOLOGIES" on 14/05/2021

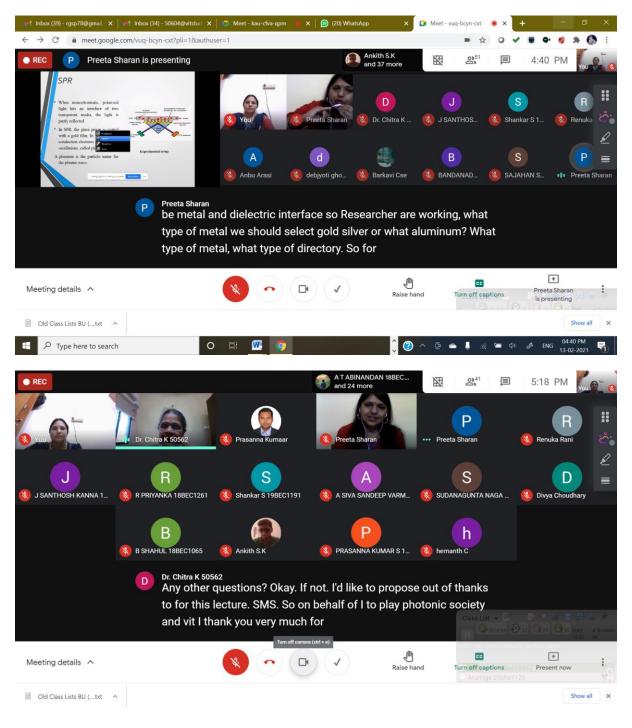


Dr. R Neelakandan, IIT Goa, talk on 5G Technologies

Technology	1G	2G/2.5G	3G	4G	5G
Deployment	1970/1984	1980/1999	1990/2002	2000/2010	2017/2020
Bandwidth	2kbps	14-64kbps	2mbps	200mbps	>1gbps
Technology	Analog cellular	Digital cellular	Broad bandwidth /cdma/ip technology	Unified ip &seamless combo of LAN/WAN/WLAN/P AN	4G+WWWW
Service	Mobile telephony	Digital voice,short messaging	Integrated high quality audio, video & data	Dynamic information access, variable devices	Dynamic information access, variable devices with Al capabilities
Multiplexing	FDMA	TDMA/CDMA	CDMA	CDMA	MC CDMA
Switching	Circuit	Circuit/circuit for access network&air interface	Packet except for air interface	All packet	All packet
Core network	PSTN	PSTN	Packet	Internet	Internet

Webinar on "Optical Sensors and Applications" on 13.02.21

The IEEE Photonics Society Student Branch Chapter organised webinar on Optical Sensors and applications on 13.02.21 through online mode. The invited speaker was Dr. Preeta Sharan, Professor & Research Head, Oxford College of Engineering Bangalore.



"Inventory: A Project Expo" on 7.08.21





Participants:

- Total of 30 members participated which included both VITians and Non-VITians
- Individual event

Winners:

- 1st prize-Yash Srivastava, VIT (Rs.1000)
 Autonomous drone with global navigation and reactive obstacle avoidance
- 2nd prize SUMIT ANAND, SAKSHAM GOGIA, SUPRITI DAS, DIYA SHINE (Rs.600)
 Anti-Theft System Anti-Theft System -SUMIT ANAND, SAKSHAM GOGIA, SUPRITI DAS, DIYA SHINE
- 3rd prize PRAVINKUMAR K P, ARULSARAVANAN B, NIJANTHAN M, PRADEEP T, Bannariamman Engineering College (Rs.400)

SMART ORGANIC WATER PURIFIER USING IOT