



## ANNUAL REPORT 2023

### 1. A HANDS-ON WORKSHOP ON PACKET TRACER FOR NETWORKING APPLICATIONS:

On 4<sup>th</sup> February 2023 at 9:50 am

Networks are becoming more intelligent, programmable and software-driven. Networking Academy courses support this evolution and expose learners to new concepts and hands-on experiences.



Gunasundari  
of Puducherry  
Technological  
University

Topic: Intro  
to  
Computer  
networks

Prof. Dr.  
R.Gunasundari,  
Department of  
ECE, Puducherry  
Technological  
University,  
Puducherry is a  
well-known  
researcher in the  
areas of Sensor  
networks,  
Internet of  
Things,

Communication and Computing and Bio-medical Engineering.

Email: [gunasundari@ptuniv.edu.in](mailto:gunasundari@ptuniv.edu.in)

Address: Professor, Dept .of ECE, PTU, Puducherry, Pondicherry, India,  
605014

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Naveen  
Kumar of  
Puducherry  
Technological  
University

Topic: Hands  
on session  
on Packet  
Tracer tool

Biography:

Mr. Naveen  
kumar pola , Full-  
Time Research  
Scholar (QIP),  
Department of  
ECE, Puducherry  
Technological  
University,  
Puducherry, doing  
research in the  
area of wireless  
sensor networks.

Email:

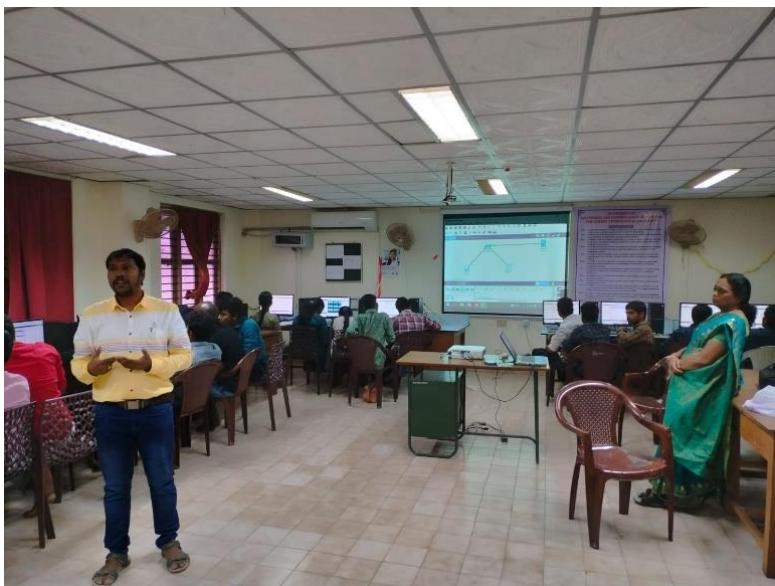
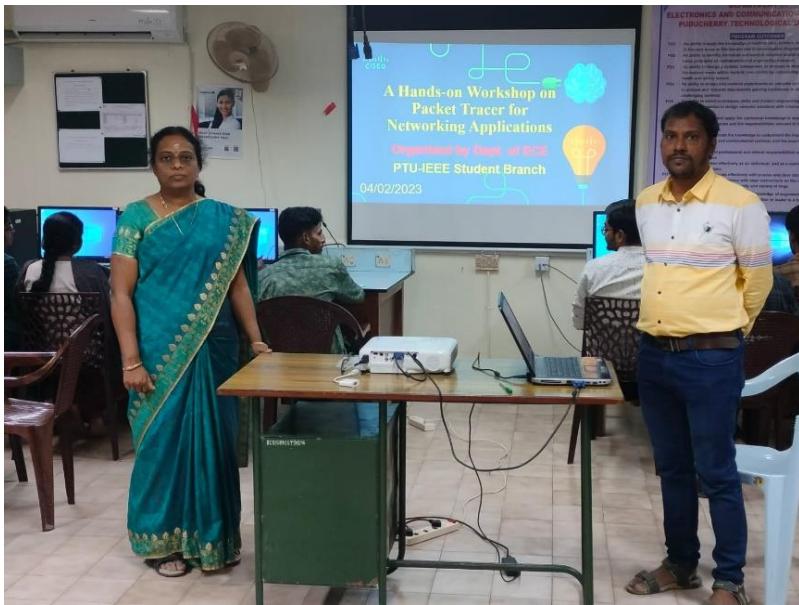
[naveenkumar.pola@pec.edu](mailto:naveenkumar.pola@pec.edu)



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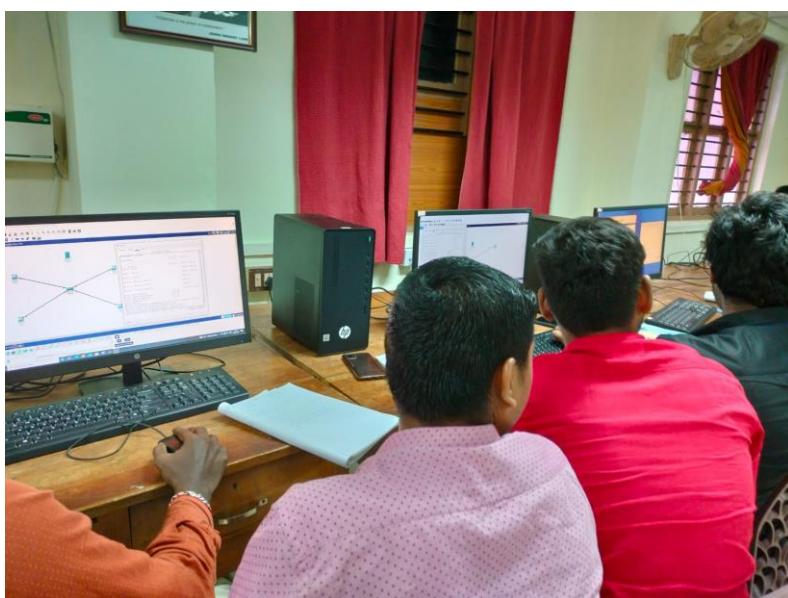
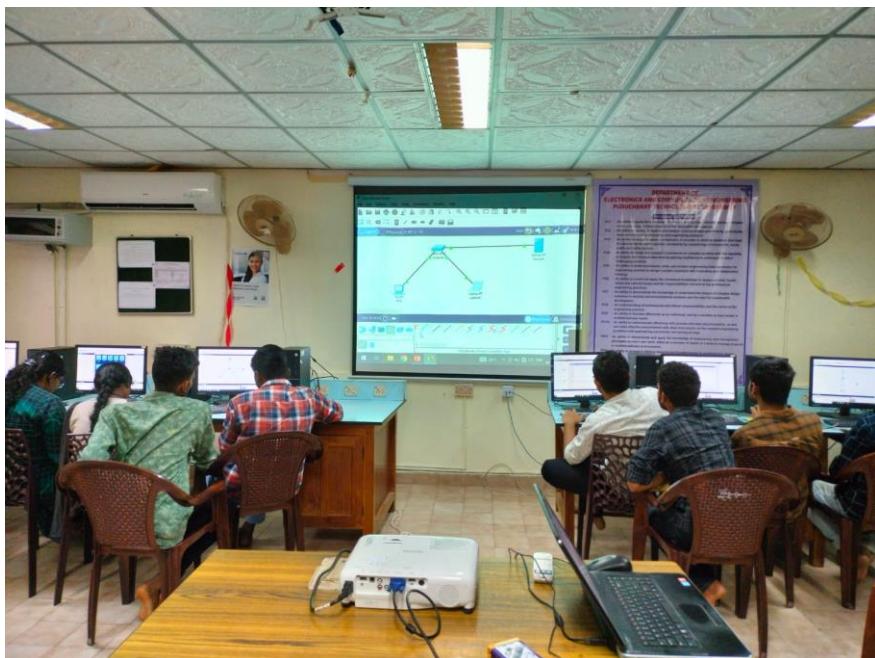


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## **2. IEEE - PTU TECHNICAL QUIZ:**

A Technical quiz is being conducted by our IEEE PTU Student Chapter on 22nd February 2023 at 3.00 pm -4.30 pm

Students from any department can participate.

Three toppers will be selected on their marks scored.

+4 for correct answer and -1 for wrong answer.

MCQ based question paper.

60 minutes for 60 questions.

Topics will be based on recent technological advancements.



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### **3. PTU IEEE SB PROJECT EXPO 2023:**

Student Level Project Exhibition

On 23rd February 2023 at 11:00am to 5:00pm

All the projects was displayed through online and exhibits at the department seminar hall and online.

Faculty Coordinator: Dr. A. V. Ananthalakshmi

#### **Details of Project Expo (2022-23)**

<b>SI. No</b>	<b>Title of the Project</b>	<b>Students</b>	<b>Batc h</b>	<b>Faculty Mentors</b>
1.	Assistive Aid for the Physically Challenged	1. T. C. Adityaa	2020-2024	Dr. M. Tamilarasi
2.	Development of Low cost Portable Ventilator for Emergency Situations	1. R. Sri SaiPriya 2. Neela Prizy Ramola 3. S. Vignesh	2020-2024	Dr. R. Sandanalakshmi
3.	Wearable Technology in Jacket for Tracking Person's Health and Safety using IoT	1. R. Siddharth 2. C. Venkataragavan 3. R. Syed Salman	2020-2024	Dr. A. V. Ananthalakshmi
4.	Smart Supportive System for Vehicles during Floods	1. I. Sivashree 2. R. Praveene	2020-2024	Dr. K. Jayanthi
5.	AI based Smart Assistant for Blind People	1. S. Sangesh	2020-2024	Dr. M. Thachayani
6	Under Ocean Power	1. K. Kamalesh Kumar 2. V. Madeshvaradhan 3. G. ArjunKrishna	2020-2024	Dr. L. Nithyanandan



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7.	Manhole / Pothole Detection and Monitoring System	1. R. SriRamachandran	2020-2024	Dr. M. Thachayani
8.	Smart Glove for Communication using AtMega328P	1. Thirumurugan N. R. P 2. Thanush Aravinde. K	2020-2024	Dr. Gnanou Florence Sudha
9.	Integration of Peltier Module with Solar Panel to increase its efficiency	1. Sivapragash. R 2. Seshan. S 3. Shaanthapriyan. B	2021-2025	Dr. S. Tamilselvan





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#### 4. WEBINAR ON IP NETWORKS AND ROUTING CONCEPTS:

Webinar conducted on 2<sup>nd</sup> March 2023 at 1:30pm to 2:30 pm

About speaker:



Shri. Narasimha rao v a  
Director, capgemini, Chennai



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Address: capgemini, prestige cyber towers, 117, rajiv gandhi salai, karapakkam, chennai, chennai, tamil nadu, india, 600097

Faculty Coordinator: Dr.R.Gunasundari





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## **5. LECTURE SERIES - I ROUTING PROTOCOLS**

Webinar conducted on 9th March 2023 at 1:30pm to 2:30 pm

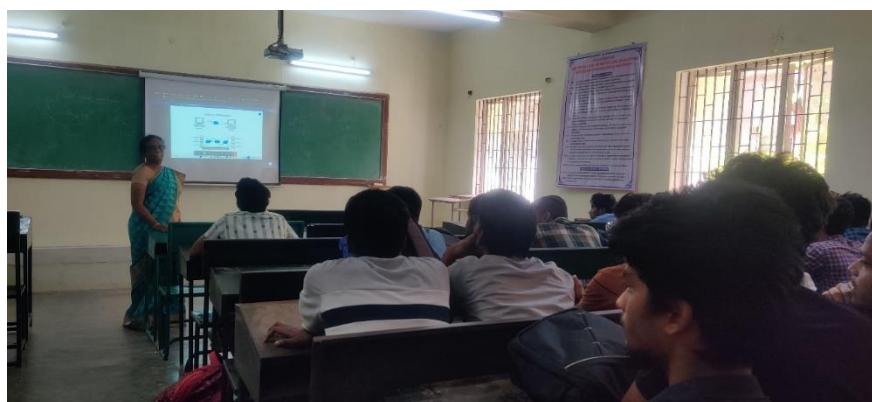
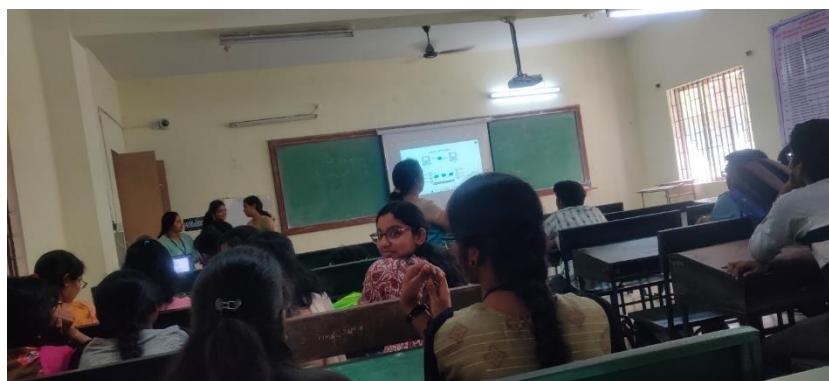
About speaker:

Shri. Narasimha rao v a

Director, capgemini, Chennai

Address: capgemini, prestige cyber towers, 117, rajiv gandhi salai, karapakkam, chennai, chennai, tamil nadu, india, 600097

Faculty Coordinator: Dr.R.Gunasundari





**6. IEEE NATIONAL LEVEL STUDENTS' TECHNICAL SYMPOSIUM**  
**25.03.2023(ONLINE):**

**Conducted by PTU IEEE Student Chapter**

Faculty Coordinator: Dr.R.Gunasundari

Jurie: Dr. Gannou Florence Sudha

**Coordinators:**

**Sri Saipriya R, Sivashree I, Nappinnai V**

**Report :**

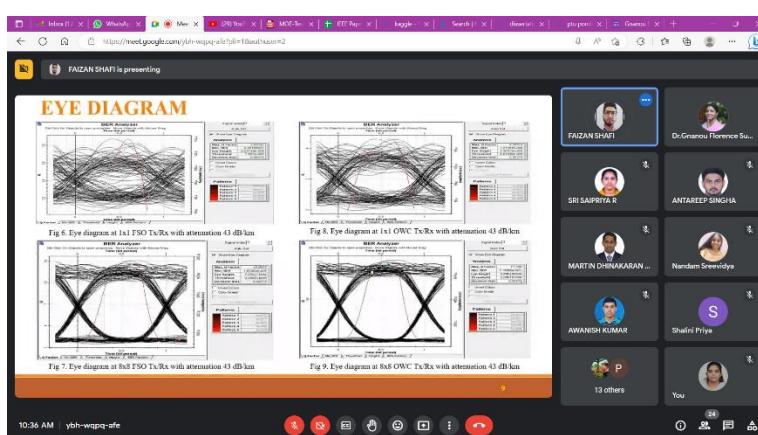
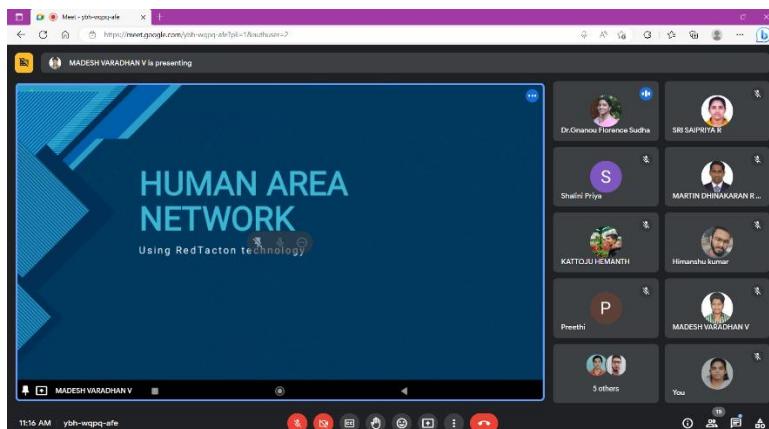
On behalf of the IEEE PTU chapter a paper presentation event was conducted on 25<sup>th</sup> March 2023 from 10 am to 12:30 pm. The jury for the event was Dr. Gnanou Florence Sudha Professor, Department of ECE, Puducherry Technological University. She is an expert member and resource person of various national and international conferences, FDP and workshops. The welcome note was given by I.Sivashree. We had 12 participants, and the paper presented included various future domains such as argument reality, virtual reality, 5G,6G, hologram, and Human area network, etc., All participants were given 10 minutes to present their paper and 5 minutes for Questionnaires. Sri Sai Priya.R facilitated the session by ensuring presentations were going in order. The participants include students from different colleges and in various years of their college life including members who are postgraduates. The event was attended by other IEEE members of PTU IEEE Student Chapter. Members Krishna Teja and Hemanth helped in recording the session. The results will be announced later and the decision of the jury is final regarding the number of selection of best ideas. Vote of thanks was delivered by Nappinnai.V and the whole session was recorded and screenshots were taken for interpretation.

<b>Sl.no</b>	<b>Title</b>	<b>Team leader name</b>
1	Data transmission system through LASER	Antareep Singha
2	Chatbots in healthcare using artificial intelligence	R.PRIYADHARSHINI
3	5G and 6G	Himanshu Kumar
4	Realization of FSO and OWC Link Performance under Different Atmospheric Turbulences and Diversity	Faizan Shafi
5	Design and Performance Analysis of Light Fidelity (Li-Fi) System	Awanish Kumar



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6	Relaxation Oscillator-Based Active Bridge Circuit for Linearly Converting Resistance to Frequency of Resistive Sensor	Nandam Sreevidya
7	Redtacton- Human Area Networking (HAN)	V MADESH VARADHAN
8	Plant treatment system	Preethi. R
9	Mathematics operation in color image processing	P. Shalini Priya
10	Detection of Botnet attack in IOT system using Deep Learning	RAD Martin Dhinakaran
11	Revolutionizing File Sharing: An Innovative Device for Seamless Local and Remote Access	Vigneshwaran
12	Holograms you can touch and feel	Subir Prasad

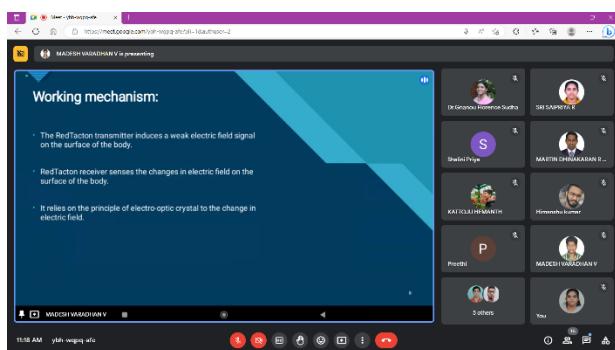
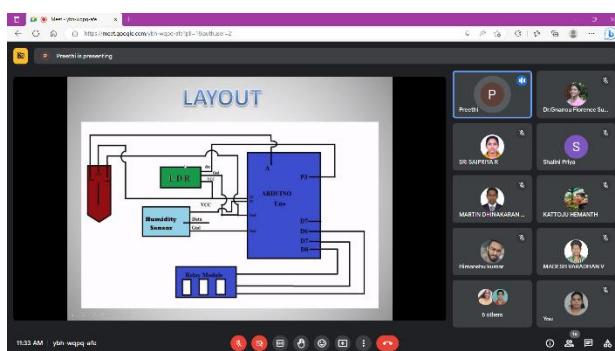
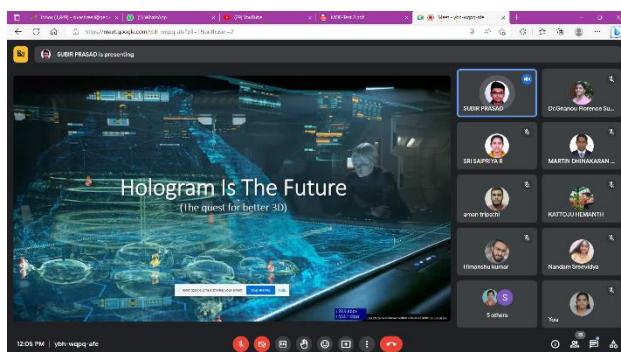
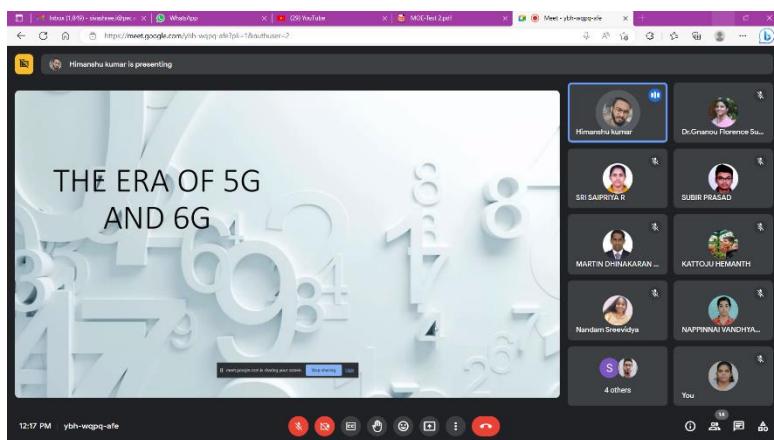




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**RESULT OF PAPER PRESENTATION CONTEST ON 25.03.2023(ONLINE)**

**CONDUCTED BY PTU IEEE STUDENT CHAPTER**

Sl.no	Title	Team leader name	Mark
1	Data transmission system through LASER	Antareep Singha	
2	Chatbots in healthcare using artificial intelligence	R.PRIYADHARSHINI	
3	5G and 6G Realization of FSO and OWC Link Performance under Different Atmospheric Turbulences and Diversity	Himanshu Kumar	<i>Best paper</i>
4	Design and Performance Analysis of Light Fidelity (Li-Fi) System Relaxation Oscillator-Based Active Bridge Circuit for Linearly Converting Resistance to Frequency of Resistive Sensor	Faizan Shafi	<i>Best Paper</i>
5	Redaction- Human Area Networking (HAN)	Awanish Kumar	<i>Best paper.</i>
6	Plant treatment system Mathematics operation in color image processing	Nandam Sreevidya	
7	Detection of Botnet attack in IOT system using Deep Learning	Preethi. R	
8	Revolutionizing File Sharing: An Innovative Device for Seamless Local and Remote Access	P. Shalini Priya	
9	Holograms you can touch and feel	RAD Martin Dhinakaran	
10		Vigneshwaran	
11		Subir Prasad	
12			

*Dr.Gnanou Florence Sudha*

Professor Department of ECE

Puducherry Technological University

**Dr. GNANOU FLORENCE SUDHA**

**Professor**

Dept. of Electronics & Communication Engg.

Puducherry Technological University

Puducherry - 605 014

## 7. TECHNICAL CONNECTIONS:

The IEEE PTU Chapter is conducting a Technical Connexions event on 31st of March.  
NO REGISTRATION FEE!

Register yourself in the following link for the Technical Connexions <https://forms.gle/oFMLSt99sHMdpv3a9>

A team should consist of exactly 2 participants.

Each participant will receive an IEEE participation certificate.



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## 8. SPECIAL TALK FOR PLACEMENT OPPORTUNITIES

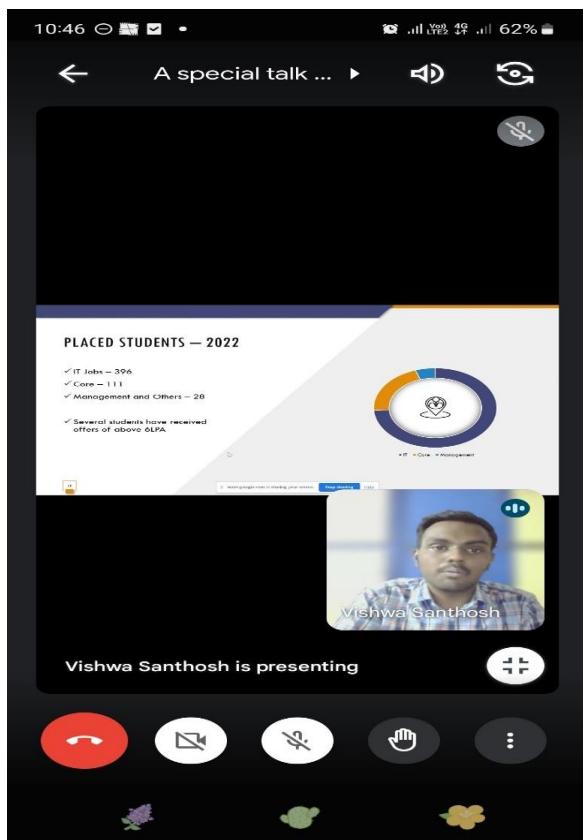
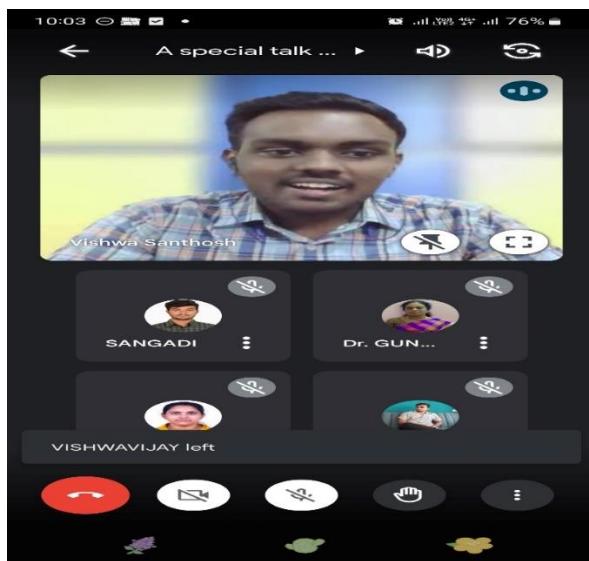
The special talk on placement opportunities by Vishwa Santosh, (alumnus, Puducherry Technological University) Associative Consultant, Kaar technologies was conducted on 1<sup>st</sup> April 2023, between 10-11 am. The welcome address was given by Shiva Sai. Sri Saipriya R coordinated the whole event and gave vote of thanks. Screenshots were taken by Nappinnai. The event was attended by both IEEE members and non-members and also students from various departments and years. Vishwa Santosh covered various topics that include types of job, stream of jobs available, choosing your company, placement opportunities in college and what's next. The students were given 10 mins for questionnaire and they cleared their doubts on masters, internship etc. The whole event was recorded by Hemanth.



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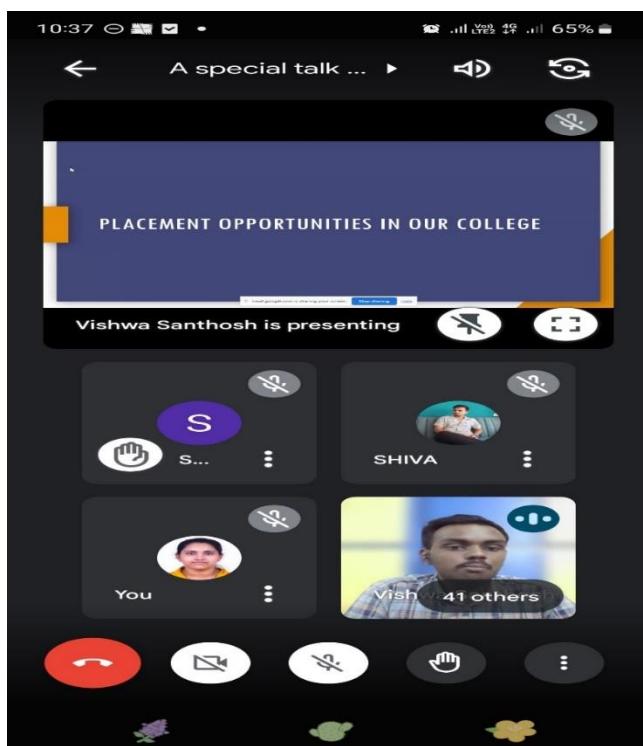
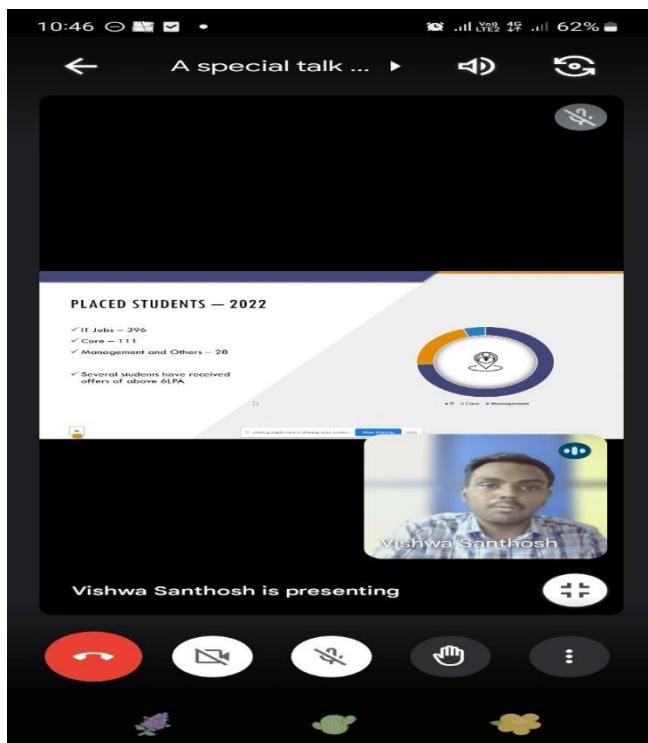
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## **9. LECTURE SERIES -II OSPF ROUTING PROTOCOL BASICS – CONTINUATION:**

Series of lectures for Computer Networks.

Webinar conducted on 30th March 2023 at 1:30pm to 2:30 pm

About speaker:

Shri. Narasimha rao v a

Director, capgemini, Chennai

Address: capgemini, prestige cyber towers, 117, rajiv gandhi salai, karapakkam, chennai, chennai, tamil nadu, india, 600097

Faculty Coordinator: Dr.R.Gunasundari





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**10. DESIGN A POSTER FOR A MOVIE TITLED “ARTIFICIAL INTELLIGENCE”, PREPARE A POSTER FOR THE PROMOTION OF THIS MOVIE:**

Do you have a vivid imagination? Are you the person people turn to for aesthetic suggestions? Are you a movie buff? Here's an opportunity to showcase your creative talent! IEEE student chapter presents to you a poster design competition in connection with world theater day!

Note: This is a digital poster design competition. You may use any digital domain for the creation of the posters. Judgement will be based on creativity and relevance to the topic.

**POSTER DESIGN CONTEST (ONLINE)**

**ORGANIZED BY PTU IEEE STUDENT CHAPTER**

**From 23.3.2023 to 30.3.2023**

**11. PHOTOGRAPHY CONTEST:**

We're looking for the most beautiful and captivating photos of the natural world, taken by talented photographers like you.

To enter the contest, simply submit your best nature photos, which can be of any subject related to the natural world. This can include landscapes, wildlife, plants, weather phenomena, or anything else that showcases the beauty and diversity of our planet.

We're particularly interested in photos that capture a sense of awe and wonder, and that convey the power and majesty of nature. Whether you're an amateur or a professional



photographer, we encourage you to submit your best work and show us your unique perspective on the natural world.

To ensure fairness and impartiality, our judges will evaluate each photo based on criteria such as composition, lighting, subject matter, creativity, and overall impact. The top entries will be showcased on our website and social media channels, and the winners will receive prizes and recognition for their outstanding work.

So if you're passionate about nature photography and want to share your vision with the world, submit your entries today and let your creativity soar!

**From 28.3.2023 to 04.4.2023**

## **12. IEEE EDUCATIONAL WEEK CELEBRATIONS - TECHNICAL INSIGHT ON 5G - Dr.R.SANDANALAKSHMI:**

Special talk on account of IEEE Educational Week Celebrations titled "**Technical insight on 5G**" on 5<sup>th</sup> April, 2023, Wednesday, 6:00 pm to 7:00 pm.

### **Faculty Coordinator**

**Dr.R.Gunasundari, Professor, ECE,PTU**

### **Event Coordinators:**

Sri Saipriya. R , Vice Chair, PTU IEEE SB

Dana prasad. M, Member, PTU IEEE SB (Welcome Address)

Arjun Krishna. G, Member, PTU IEEE SB (Vote of thanks)

Please find the google meet link:

<https://meet.google.com/umn-nkwg-gne>

### **Recording link:**

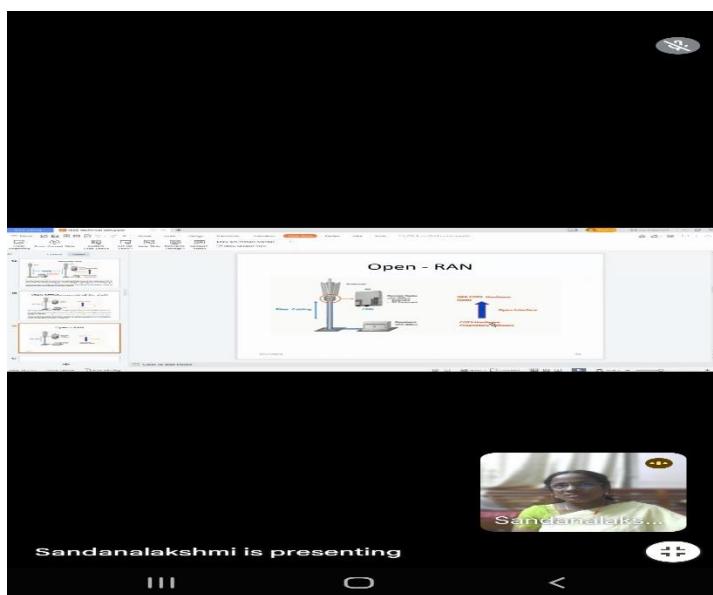
[https://drive.google.com/file/d/1lBPB3b5oQc\\_ez2GXvICrYyLWVNXmTh0k/view?usp=drive\\_web](https://drive.google.com/file/d/1lBPB3b5oQc_ez2GXvICrYyLWVNXmTh0k/view?usp=drive_web)



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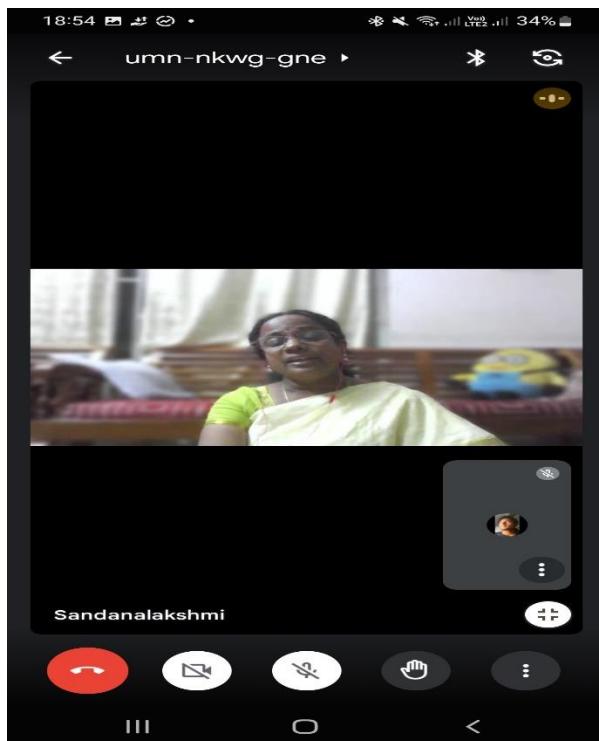
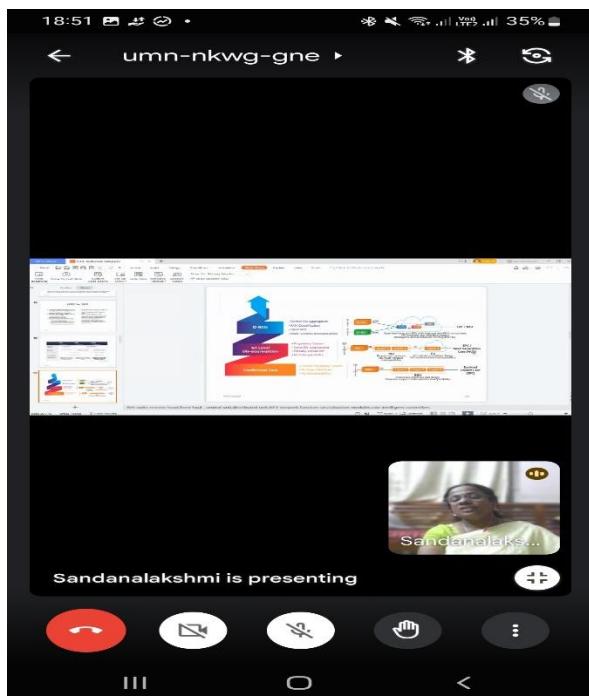
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### **13. IEEE Educational Week Celebrations - OSPF- Mr.Narasimha and Mr.Srivatsan, Capgemini Engineering, Chennai**



Series of lectures for Computer Networks.

Webinar conducted on 6th April 2023 at 1:30pm to 2:30 pm

About speaker:

Shri. Narasimha rao v a

Director, capgemini, Chennai

Address: capgemini, prestige cyber towers, 117, rajiv gandhi salai, karapakkam, chennai, chennai, tamil nadu, india, 600097

Faculty Coordinator: Dr.R.Gunasundari

Coordinators:

Ragavi K

Gokul Krishna

### **14. IEEE Educational Week Celebrations - Recent trends in Healthcare Analytics- Dr.K.Jayanthi**

a special talk titled “Recent trends in Healthcare Analytics” on account of IEEE Educational Week Celebrations on 8<sup>th</sup> April,2023,Saturday, 6:00 pm to 7:00 pm.

Recording of the meet.

[https://drive.google.com/file/d/1\\_rZ6Q5GKGzFrnqhqnkJH\\_IqQnPVOiPec/view?usp=drive\\_web](https://drive.google.com/file/d/1_rZ6Q5GKGzFrnqhqnkJH_IqQnPVOiPec/view?usp=drive_web)

Event coordinators:



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Sivashree I

Umashankar S

Pranav N