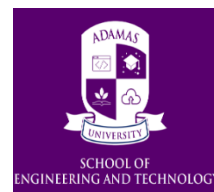




Report on Guest Lecture on Career Opportunities in Microwave Filters Design by Kim Eilert (Caltech, USA)



Organized by: Electronics and Communication Engineering & IETE Students' Forum

Date & Time: 14/08/2021 & 7:00 PM – 8:00 PM

Mode of Delivery: Online (through Zoom)

Meeting Link:

<https://zoom.us/j/98149305287?pwd=WEYzY0xjVTVvcmlZDYXVSTHVGVZUtkdz09>

No. of Participants: 31

Nationality –Indian, Iranian

Objectives: The agenda of the talk is to generate interest and share industry experience among the students and professionals in the field of Microwave Engineering. The major objective of the talk is to foster learning and provoke inspiration to solve real-world challenges on the field of Microwave Filter Design.

Summary of Sessions

Sl. No	Resource Person with profile details	Topic	Major Insights
1	1. Kim Eilert (Vice-Chair, IEEE Operations Committee, Inter-society Committee, & Young Professional Committee) (IEEE MTT-S WIM Coordinator)	1. Importance of Maxwell's Equations. 2. Fundamentals of Microwaves and Microwave Filters. 3. Career Opportunities in Microwave Filter Design.	Some Points Discussed are as Follows: - 1. History of EM waves. 2. Fundamentals and Types of Filters. 3. Micro-strip Filters. 4. Maxwell's Equation and their significance in designing Filters. 5. Some Case Studies on BPF. 6. Resonators 7. Career opportunities and Internship opportunities in Microwave Filter Industry.

Abstract of proceedings: (in about 500 words)

Department of Electronics and Communication Engineering, SOET, Adamas University and its IETE Students Forum jointly organized a virtual Guest Lecture on "**Career Opportunities in Microwave Filters Design**" which is becoming an emerging career option for ECE students and professionals. The speakers have got expertise in this field and have been associated with Intel, HCL etc. The guest lecture was scheduled on **14th August 2021 from 7:00 PM to 8:00 PM**.

The guest lecture commenced with a significance of filter design in modern day smart phones, and the objectives of the session was highlighted. The expert went on to further elaborate the critical skill gaps. The speaker initially highlighted the significance of Maxwell's Equations in Microwave Filter Design

followed by a few micro-strip band pass filters, quarter-wave filters etc. The construction and challenges in practical realization were also explained briefly during the session. Next, the speaker explained the significance of resonance in designing and operations of Microwave Filters. Finally, the speaker explained about the design of Microwave Filters using EM simulation software (like Sonnet Project Editor). The speaker also explained the design of a filter at the last part of the session using EM simulation and design software. Finally, the speaker concluded with the general job opportunities in the field of Microwave Filter design. Also, special advice for future filter designers and career design suggestions were provided by the Hon. Guest speaker. The guest speaker also provided some of her practical experience while working in various industries.

Poster of the event:

IETE Students' Forum and Dept. of ECE, Adamas University, Kolkata
Presents a Guest Lecture on:

Career Opportunities in Microwave Filters



by
Kim Eilert
(Vice-Chair, IEEE MTT-S Operations Committee,
Inter-society Committee, & Young Professional Committee)
(IEEE MTT-S WIM Coordinator)

Date & Time:
14-08-2021 (Saturday) & 7:00 PM to 8:00 PM



ADAMAS
UNIVERSITY
KOLKATA
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SCHOOL OF
ENGINEERING AND TECHNOLOGY



THE INSTITUTE OF ELECTRONICS AND TELECOMMUNICATIONS ENGINEERS
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PATRON



Dr. Deependra K Jha
Vice-Chancellor,
Adamas University

CO-PATRON



**Prof. (Dr.) Ashwini
Kumar Sharma**
Dean, SOET,
Adamas University

CONVENOR



Mr. Jeet Banerjee
Assistant Prof., Electronics and
Communication Engineering,
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Adamas University

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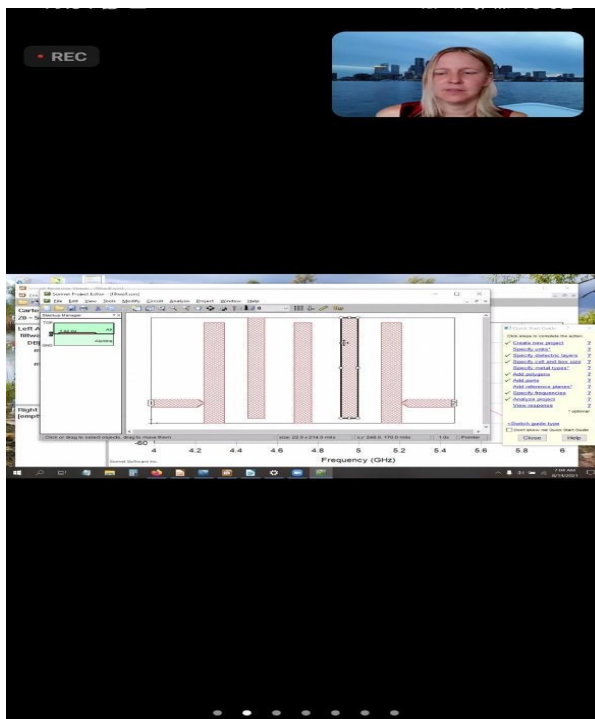
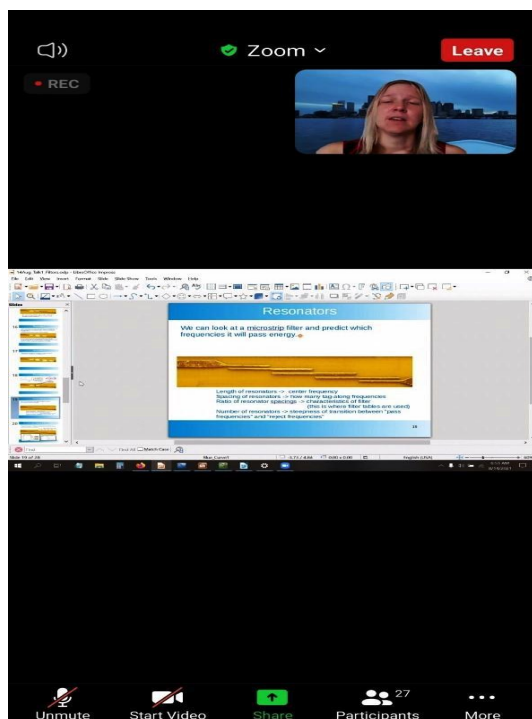
CO-CONVENOR



Mr. Diganta Das
Student Member, IETE
Adamas University
(diganta.das@ietes.adamasuniversity.ac.in)
(Contact No. 9874543229)

The platform for Webinar: **Zoom**
Registration Link: <https://forms.gle/dB1Ro3Ppvcc3X91fA>
Organized by: IETE Students' Forum and Dept. of ECE, Adamas University, Kolkata, West Bengal, India

Glimpse of the event:



General Participant Feedback:

Full name	Kindly Your Institution/Affiliation (IIT Patna, NIT Durgapur, etc.)	Kindly Your professional Identity (	Was this webinar interesting and relevant?	How was the webinar?	What did you learn from this webinar?	Suggestions if any?
ARKYA SANTRA	Adamas University	Student	Strongly Agree	Excellent	Career Opportunities in Microwave Filters	NA
Moupriya Das	Adamas University	Student	Strongly Agree	Excellent	Career Opportunities in Microwave Filters	NA
DIGANTA DAS	Adamas University	Student	Strongly Agree	Excellent	Microwave Filter	None
DR S RAGHAVAN	NIT TRICHY	VISITING FACULTY	Strongly Agree	Excellent	OTHER SIDE OF MIC FILTERS	RECORDINGS IF SHARED WILL BE OF USE
Mr. Bikash Ranjan Behera	IIT Bhubaneswar, Odisha, India	PhD Research Scholar	Strongly Agree	Excellent	It was a nice and informative session on Filters.	Keep organizing such type of webinars. It was a nice and informative webinar event.
JAYAPAL ELLURU	S.V UNIVERSITY COLLEGE OF ENGINEERING	Ph.D Scholar	Strongly Agree	Excellent	Importance of filter	
Khalid Ali Khan	Mettu University, Ethiopia	Faculty	Strongly Agree	Excellent	Filter in application	Nice
Ganga Sagar Verma	University of Delhi South Campus, New Delhi	Student	Strongly Agree	Excellent	Analysis and design of microwave filter	yes
Manimala.V	Builders Engineering college, Erode	Faculty	Strongly Agree	Excellent	The sound wave example for filter design was interesting	
ARJUN B MURALI	SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)	PG SCHOLAR	Strongly Agree	Excellent	Clear concepts on filters and microstrip	Career oriented discussions have to be focussed
Bipratip Dey	Technique Polytechnic Institute	Student	Agree	good	Microwave Filter	No
Airtra Nayak	Adamas University, Kolkata	Student	Strongly Agree	Excellent	It was very charming session. Though it is a new aspects to me, it will encourage me in future.	Some more webinar in this aspects will be helpful to us.
Dr. Rajesh Kumar Vishwakama	Jaypee University of Engineering and Technology, Guna	Faculty	Strongly Agree	Excellent	About filter	No
Sagnik Chakrabarti	Adamas University	Student	Agree	good	I learnt about career opportunities in Microwave filters	
Suleyman Nokerov	Qugz Han Engineering and Technology University of Turkmenistan	Lecturer	Strongly Agree	Excellent	Mathematical modeling by Maxwell's equation	Everything was fine
Sweta Bhattacharjee	Adamas University	Student	Strongly Agree	Excellent	New opportunities in the field of microwave	No
Diptayan Dasgupta	Adamas University, Barasat	Student	Agree	good	Learnt about the career opportunities in microwave filters	
S GANGADHARA T VENKADESH	NATIONAL ENGINEERING COLLEGE, KOVILPATTI	FACULTY	Strongly Agree	Excellent	RECENT OPPORTUNITIES IN MICROWAVE FIELD	ORGANISE ANOTHER ONE WEBINAR

Convenor(s):

Patron:

Dr. Deependra K Jha, Vice Chancellor, Adamas University

Co-Patron:

Dr. Ashwini K Sharma, DEAN- School of Engineering & Technology, Adamas University

Convener: Mr. Jeet Banerjee, Assistant Prof., Electronics and Communication Engineering, SOET, AU

Co-Convener: Mr. Arkya Santra, Student Member, IETE
(arkya.santra@stu.adamasuniversity.ac.in) (Contact No. 7478284428)

Co-Convener: Mr. Diganata Das, Student Member, IETE
(diganta.das@stu.adamasuniversity.ac.in) (Contact No. 9874543229)

***** e-certificates provided to the participants...**



Certificate for Guest Speaker:



Outcome of the event:

- 1) To bridge up the gap between industry and academia.

- 2) To make students aware about the various job opportunities in microwave filter design (internationally).
- 3) To explore possibilities of internships (for students of Adamas University) in Microwave Filter design industry.
- 4) To provide professional Networking opportunities between students of Adamas University and guest speaker as well as between participants themselves via interactions.
- 5) To enhance internationalization of Adamas University and enhance its brand building.
- 6) Including school students and teachers to enhance admission to school of Engineering and Tech. (SOET).

Evidence of including school students to this event:

Invitation for Webinar on "Career Opportunities in Microwave Filters"

Pradip Roygupta
Wed 04-08-2021 12:21

To: info@vmhschool.com; disaripschool@hotmail.com; tps.tamluk@yahoo.com; Principal SBPS <principaldeksbps@gmail.com>; southbengalpublicschool@gmail.com; contaienglishmediumschool@gmail.com; eps15408@gmail.com; zillapublicschool2006@gmail.com; smitamluk@gmail.com
Cc: Jeet Banerjee



Respected Sir/Madam,
I am Pradip Kumar Roygupta from Adamas University Electronics and Communication Engineering department, glad to informing you that we are going to organize an Webinar for the Class 12 students on "Career Opportunities in Microwave Filters".
We will be eager to see you and your students to participate in the Webinar and gaining some important information regarding their career.
I am attaching the digital flyer of the webinar and the registration link

Invitation for Webinar to Schools

Jeet Banerjee
Wed 04-08-2021 10:12

To: Pradip Roygupta; Payel Chakraborty; Sauren Sarkar; Uttam Basak
Cc: AUECE



Dear Colleagues (Payel mam, Uttam Sir, Sauren Sir, and Pradip Sir),
Please invite school students to our upcoming webinar on 14-08-2021 for enhancing possibilities of admissions.
You have already sent an invitation e-mail to schools earlier last month.

Please use a similar email to invite school students and teachers to our proposed webinar.
I am attaching the digital flyer of the webinar and the registration link (<https://forms.gle/rjZeZWFpPpKMYAGp2>) along with this e-mail.

webinar registration 14-08-2021

Webinar Registration 14-08-2021