DON BOSCO INSTITUTE OF TECHNOLOGY, MUMBAI



DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

IEEE-DBIT STUDENT BRANCH

Report on Alumni Talk by Dr. Tom Sebastian

Topic: "Skills for an Antenna and Microwave Design Engineer"

<u>Date</u>: 06th August, 2020

<u>Time:</u> 5:00 - 6:00 p.m.

<u>Venue:</u> Zoom Meeting (Online Platform)

Speaker: Dr. Tom Sebastian, Senior Antenna Engineer and Team Lead, JEM

Engineering, Laurel, Maryland, USA

Target Audience: B.E.

No of participants registered: 68

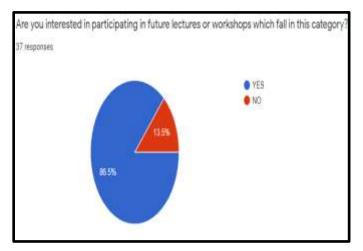
No of participants attended: 48

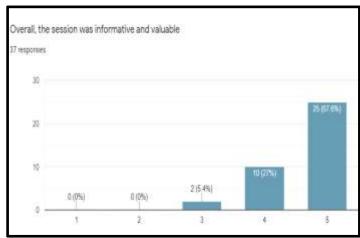
Description:

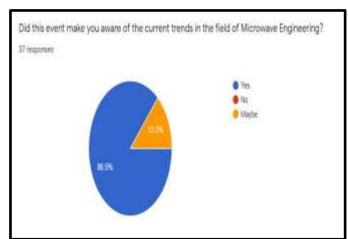
- The IEEE student chapter of DBIT organized an alumni talk on "Skills for an Antenna and Microwave Design Engineer" on the 6th of August, 2020.
- The session commenced with a Welcome address by Mrs. Freda Carvalho, Professor, DBIT Mumbai, followed by an introduction of the speaker Dr. Tom Sebastian, Senior Antenna Engineer and Team Lead, JEM Engineering.
- Following the introduction, Mr. Tom Sebastian took over and started the session by giving a brief introduction to his background in the field and his education.
- Further, he continued by sharing some examples of Antenna Designs in the market such as Low Profile, broadband, conformal antennas, magnetodielectric antennas, Dish feed Antennas, etc.
- The speaker then proceeded by talking about the importance of EM, Microwaves and Antennas and how many choose not to pursue the respective field due to complexity of the mathematics involved.
- Further, the speaker shed light on how Microwave and Antenna systems are very complex and precise and hence it's difficult to prototype at the university level.

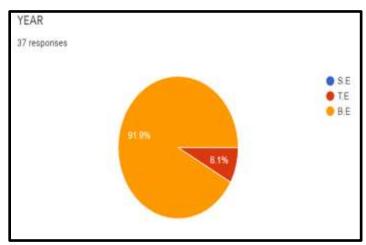
- Mr. Sebastian also illustrated what to expect in this field as well as the pros and cons of electromagnetics.
- He continued by explaining required skills to do well in exams, to get a job, skills to keep a job and how one can advance in a career.
- He moved on to explain the most important thing to get a job which was a good personality. He continued by explaining that the approach to finding a solution was important rather than the memory of complex equations taught in schools and colleges.
- He talked about the fundamentals of EM such as Antenna Design. He talked how fundamentals are a key part in technical interviews. He also gave an insight on the required software and equipment's that students should integrate into their learning such as COMSOLL, MATLAB, Oscilloscope, Spectrum Analyzer etc.
- Before concluding his address, the speaker discussed about the management skills required in a job and finally gave an insight on the current trends in the field of EM, Antennas and Microwave Engineering such as IoT, 5G Antennas, Space Antenna systems etc., and how IEEE helps in keeping its members up to date on these topics.
- After the address, the session was open to a Q&A session with the participants. The questions were selected from the participants from the zoom call and Mr. Sebastian addressed all of them very meticulously.
- The session was concluded with the Vote of thanks delivered by Mr. Shreyas Kulkarni, Chairperson, IEEE- DBIT, after which the participants were requested to fill the feedback forms circulated on the WhatsApp groups.

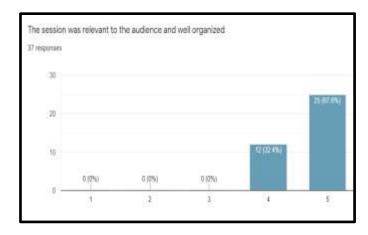
Feedback Analysis:

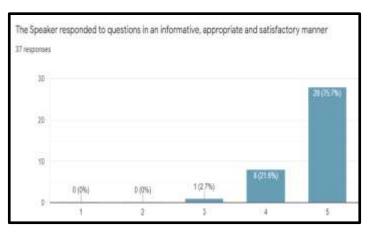


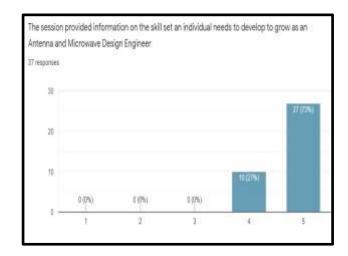


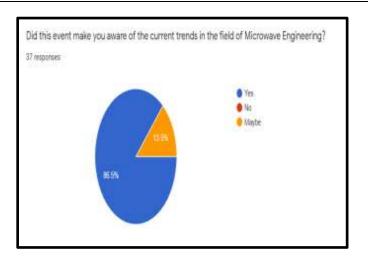












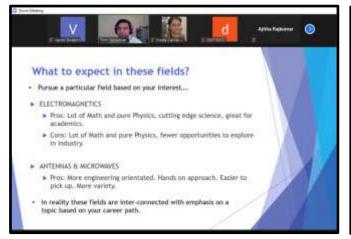
Summary of Webinar Analysis:

From the above analysis we can see the overall reception to the webinar was positive. The majority of the participants were from B.E followed by the T.E. The bulk of the participants felt that the overall webinar was satisfactory and informative. As reflected by the feedback, the webinar helped many by creating awareness on the current trends in microwave engineering. A High number of the participants are interested in future webinars.

Event Poster:



EVENT PICTURES:













| Report Prepared by: Mr. James Robin K (Reporting Head) |
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| Report Approved by: Ms. Gejo George (IEEE-DBIT SB Counselor) |
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