Alva's Institute of Engineering & Technology
Shobhavana Campus, Mijar, Moodbidri, D.K – 574225
Phone: 08258-262725, Fax: 08258-262726
DEPT. OF ELECTRONICS & COMMUNICATION ENGINEERING

Ref: AIET/2018-19/IPR/ECE/01 **Date: 09/09/2018**

To

The Principal

Alva's Institute of Engineering and Technology

Mijar Moodbidri 574225

Respected Sir

Sub: **Requisition to conduct a talk on Applied Electromagnetism and Modern Antenna Design and Patent Rights**

With reference to the above subject I request you to permit me to conduct **a talk on "Applied Electromagnetism and Modern Antenna Design and Patent Rights" by Dr. Krishnamoorthy K,** Asst. Prof., Dept. of ECE, NITK Suratkal in order to inculcate the research and patenting knowledge among the students on **11thSeptember 2018**. Kindly oblige and do the needful.

Thanking you

HOD

Dr. D V Manjunatha

H. O. D.
Dept. Of Electronics & Communication
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225

PRINCIPAL
Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K

Alva's Institute of Engineering & Technology
Shobhavana Campus, Mijar, Moodbidri, D.K – 574225
Phone: 08258-262725, Fax: 08258-262726

DEPT. OF ELECTRONICS & COMMUNICATION ENGINEERING

Date: 09/09/2018

To,

Dr. Krishnamoorthy K,
Asst. Prof., Dept. of ECE,
NITK Suratkal

Dear Sir,

Sub: Invitation for a talk on "Applied Electromagnetism and Modern Antenna Design and Patent Rights".

I am pleased to have the honour of inviting you for a talk on **"Applied Electromagnetism and Modern Antenna Design and Patent Rights"** for our institute technical activity. We have arranged your lecture at our institution on **11thSeptember 2018.** Kindly accept our request as a guest speaker

Thanking You

With warm regards

Principal

PRINCIPAL
Alva's Institute of Engg. & Technology,
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Circular

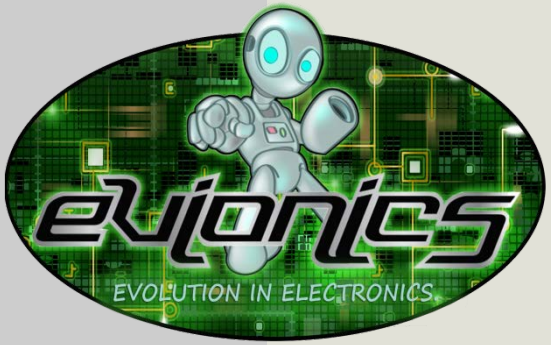
It is hereby informed all the VI A & B and III A & B semester students to that there will be a talk on "Applied Electromagnetism and Modern Antenna Design and Patent Rights" by **Dr. Krishnamoorthy K,** Asst. Prof., Dept. of ECE, NITK Suratkal, on **10th September 2018** in Engineering Seminar hall by 11 AM. So all must present attendance will be monitored.

Mr. Sudhakara H M & Mr. Aneesh Jain
Technical Coordinator

Dr. D V Manjunatha
H.O.D.

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dept. of Electronics and Communication Engineering



"Applied Electromagnetism and Modern Antenna Designand Patent Rights"

To,

PROGRAMME SCHEDULE

- Invocation
- Welcome Speech
- Introduction of Chief Guest
- Technical talk
- Honoring the chief guest
- Vote of thanks

Alva's Institute of Engineering and Technology
Dept. of Electronics and Communication Engineering

We cordially invite you to the

Talk on

"*Applied Electromagnetism and Modern Antenna Design and Patent Rights*"

by

Dr. Krishnamoorthy K
Asst. Prof., Dept. of ECE,
NITK Suratkal

Venue:Engg. Seminar Hall
Date: **10th September 2018**by 11 AM

Mr.Sudhakara H M
Technical Coordinator

Dr. D V Manjunatha
H.O.D.

Staff & Students
Department of E& C Engineering

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Phone: 08258-262725, Fax: 08258-262726

Applied Electromagnetism and Modern

Antenna Design and Patent Rights

The second technical talk conducted on **11th September 2018** was delivered by **Dr. Krishnamoorthy K,** Asst. Prof., Dept. of ECE, NITK Suratkal on the topic "**Applied Electromagnetism and Modern Antenna Design and Patent Rights**". The formal inaugural function was graced by the presence of Dr. Richard Pinto.

Welcoming resource person for the talk

Resource person Addressing gathering

Dr. Krishnamoorthy has pursued M.E from the College of Engg., Guindy and Ph.D from IIT-Bombay. He has carried out enormous research work in the area of Modern Antenna Design and published various technical papers in reputed journals such as IEEE Transactions. Currently, two significant funded projects are carried out, granted by sponsoring agency SERB-DST India and ISRO India costing 60 Lakhs. Dr. Krishnamoorthy began the talk by familiarizing the audience with the principles of Electromagnetism and laws governing the antenna wave propagation. The talk proceeded to explain the design and working principles of monopole, dipole and horn antennas. The expert also stressed about parameters effecting wireless transmission such as Interference and others key factors which has to be considered during antenna design. Later, the talk elaborated on modern antennas like micro strip patch antennas which are well-known for their performance and extent of usage.

Question and answer session by resource person

He mentioned the advantages of patch antennas in wide range communication and how it took over the usage of conventional antennas in applications such as global positing satellites, cellular phones, personal communication system and also mentioned about patents under this area. Also gave an insight of how to file the patents. Finally, the expert briefed on the research facilities and dedicated laboratories available for microwave communication in NITK campus and also

explained about the internship program which our students interested to work in this niche area can undergo. The talk concluded by presenting a memento to the guest by Dr. Pinto.

Outcome:

- Students got the knowledge on applied electromagnetism and its application
- Students got knowledge on Antenna Design using different tool
- Students were enlighten about the research area about antenna design and its patent writes

Coordinator

Head of the department

Dr. D V Manjunatha

H. O. D.
Dept. Of Electronics & Communication
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225

Dr. Krishnamoorthy K.

Designation:

Assistant Professor

NITK

Contact Details

E-mail:

krishnak_ece[at]yahoo[dot]com

Telephone:

+91-824-2473512

Academic Background

• PhD: Electrical Engineering Department, IIT-Bombay, Mumbai, 2016 • M.E: (Comm. systems) College of Engineering Guindy, Anna University, Chennai, 2007 • B.E: (Electronics & Comm. Engg.) Bharathiar University, Coimbatore, 2002

Areas of Interest

Antenna Design Reconfigurable and multiband antenna design RF and Microwave Engineering Metamaterials

Significant Projects

1) **Title: Compact multi-band antenna with independently controlled resonant frequency and polarization for mobile wireless applications**. Sponsoring Agency: SERB-DST, Govt. of India (under Early Carrier Research Award). Duration: Three years (2017-2020). Project Cost: Rs. 44,22,660/-

2) **Title: Design and Development of Wideband Circularly Polarized Antenna using 2D Metamaterial Structures**.Sponsoring Agency: ISRO RESPOND Scheme. Duration: Two years (2018-2020). Project Cost: Rs. 25,71,000/-

Journals

32) B Anudeep, **K Krishnamoorthy**, PH Rao, "Analysis of Wave Propagation Models with Radio Network Planning using Dual Polarized MIMO Antenna for 5G Base Station Applications" **IEEE *Access*,** (accepted for publication).

31) D. S. Arun Kumar, T. R. Puneeth Kumar, **K. Krishnamoorthy**, P. Devadas Bhat and M. R. Rahman, "Flexible Electromagnetic Shielding Material Using Multi-Walled Carbon Nanotube Coated Cotton Fabric", **IEEE Transactions on Components, Packaging and Manufacturing Technology.** (Accepted for Publication)

30) Usha L and **Krishnamoorthy K,** "Linearly Polarized and Circularly Polarized Cylindrical Dielectric Resonator Antenna," ***Progress In Electromagnetics Research Letters***, Vol. 102, 57-65, 2022.

29) Usha L and **Krishnamoorthy K,** "Circularly Polarized Rectangular Dielectric Resonator Antenna with Elliptical Aperture Feed for 5GHz ISM band", **International Journal of RF and Microwave Computer-Aided Engineering**, 2021; 31(12):e22882. doi:10.1002/mmce.22882.

28) G Polaiah, **Krishnamoorthy Kandasamy**, M Kulkarni, "An Autonomous Frequency Reconfigurable Antenna Using Slotline Open-Loop Resonators", **IEEE Access**, Vol. 9, no. 1, PP. 82221 - 82232, Jun 2021.

27) B Anudeep, **K Krishnamoorthy**, PH Rao, "Low-profile, wideband dual-polarized 1× 2 MIMO antenna with FSS decoupling technique" **International Journal of Microwave and Wireless Technologies,** PP.1-7, doi:10.1017/S1759078721000805.

26) Geriki Polaiah, **Krishnamoorthy Kandasamy**, and Muralidhar Kulkarni, "Compact UWB Slotted Monopole Antenna with Diplexer for Simultaneous Microwave Energy Harvesting and Data Communication Applications," **Progress In Electromagnetics Research C**, Vol. 109, 169-186, 2021.

25) Puneeth Kumar T R, Karthik Rudramuni and **Krishnamoorthy Kandasamy,**"compact Wideband Circularly Polarized SRR Loaded Slot Antenna for Soil Moisture Sensor Application" **Microwave Review,** Vol. 26, No. 2, Dec. 2020.

24) Anudeeb B, P H Rao, and **Krishnamoorthy Kandasamy,** "Mitigation of Mutual Coupling in 2 X 2 Dual Slant Polarized MIMO Antennas using Periodic Array of SRRs Loaded with

Transmission Line for LTE Band 40" **International Journal of RF and Microwave Computer-Aided Engineering, Vol. 30, No. 12,** **https://doi.org/10.1002/mmce.22454.**

23) Karthik Rudramuni, Puneeth Kumar T R, **Krishnamoorthy Kandasamy**, Basudev Majumder and Qingfeng Zhang, "Dual-Band Asymmetric Leaky Wave Antennas for Circular Polarization and Simultaneous Dual Beam Scanning", **IEEE Transactions on Antennas and Propagation**, Vol 69, No. 4, 1843 - 1852, April 2021.

22) Polaiah G, **Krishnamoorthy K**, Kulkarni M, "Compact High-efficiency Pentahedron and Quatrefoil Shape Antennas with Enhanced Gain for GSM1800, 3G, 4G-LTE Energy Harvesting Applications", **International Journal of Microwave and Wireless Technologies**, 1-12, https://doi.org/10.1017/S1759078720000574.

21) N Jacob, M Kulkarni, and **Krishnamoorthy K**, "An Electronically Switchable UWB to Narrow Band Antenna for Cognitive Radio Applications", **Microwave and Optical Technology Letters,** Vol. 62, no. 9, PP. 2989-3001, Sep 2020.

20) N Jacob, M Kulkarni, and K Krishnamoorthy, "Omega Shaped Complementary Split Ring Resonator Loaded Bandwidth Reconfigurable Antenna for Cognitive Radio Applications" **Procedia Computer Science, 2020,** Vol. 171, PP. 1279-1285, Jan 2020.

19) Princy M Paul, **K. Krishnamoorthy** and Mohammed S. Sharawi, "A Multi-Band U-Strip and SRR Loaded Slot Antenna with Circular Polarization Characteristics", **Advanced Electromagnetics**, Vol. 9, no. 1, PP. 41-48, March 2020.

18) Karthik Rudramuni, Puneeth Kumar T R, **Krishnamoorthy Kandasamy** and Basudev Majumder, "Dual-band Dual-polarized Leaky-wave Structure with Forward and Backward Beam Scanning for Circular Polarization-flexible Antenna Application"**, Microwave and Optical Technology Letters,** Vol. 62, no. 5, PP. 2075-2084, May 2020.

17) Karthik Rudramuni, Puneeth Kumar T R, **Krishnamoorthy Kandasamy**, Basudev Majumder and Qingfeng Zhang, "Goubau Line Based End-Fire Antenna", **International Journal of RF and Microwave Computer-Aided Engineering.** Vol.29, no.12, Dec 2019.

16) Princy M Paul, **K. Krishnamoorthy** and Mohammed S. Sharawi, "A Corner Expanded Slot Antenna Loaded with Copper Strips for Dual-band Circular Polarization Characteristics", **Microwave and Optical Technology Letters.** Vol.62, no.1, PP. 491-497, Jan 2020.

15) Puneeth Kumar T R, Karthik Rudramuni and **Krishnamoorthy Kandasamy,** "Compact Triband Circularly Polarized Planar Slot Antenna loaded with Split Ring

Resonators", **International Journal of RF and Microwave Computer-Aided Engineering.** Vol.29, no.12, Dec 2019. https://doi.org/10.1002/mmce.21953.

14) Puneeth Kumar T R, Karthik Rudramuni and **Krishnamoorthy Kandasamy,** "Characteristic Mode Based Compact Circularly Polarized Metasurface Antenna for In-Band RCS Reduction", **International Journal of Microwave and Wireless Technologies.** 1-7. doi:10.1017/S1759078719001119, Sep. 2019.

13) Puneeth Kumar T R, Karthik Rudramuni and **Krishnamoorthy Kandasamy,** "A High Gain Circularly Polarized Antenna Using Zero-Index Metamaterial" ***IEEE antennas and Wireless Propagation Letters.*** Vol. 18, no. 6, PP. 1129-1133, June 2019.

12) Puneeth Kumar T R, Karthik Rudramuni and **Krishnamoorthy Kandasamy,** "A Wideband Circularly Polarized Slot Antenna Backed by Frequency Selective Surface" ***Journal of Electromagnetic Engineering and Science***. Vol. 19(3), PP. 166-171, July 2019.

11) Princy M Paul, **K. Krishnamoorthy**, Mohammed S. Sharawi, and Basudev Majumder, *"Dispersion Engineered Transmission Line Loaded Slot Antenna for UWB Applications*", ***IEEE Antennas and Wireless. Propag. Lett.*** vol. 18, no. 2, pp. 323-327, Feb. 2019.

10) Basudev Majumder, **Krishnamoorthy Kandasamy** and Kamla Prasan Ray, "*A Zero Index Based Meta-Lens Loaded Wideband Directive Antenna Combined With Reactive Impedance Surface*" **IEEE Access**, Vol. 6, no. 1, PP. 28746-28754, Dec 2018.

9) Princy M Paul, ***Kandasamy K***, *Sharawi M S, "A Tri-band Circularly Polarized Strip and SRR Loaded Slot Antenna"* ***IEEE Transactions on Antennas and Propagation,*** *vol. 66, issue 10, pp. 5569-5573, Oct 2018.*

8) Karthik Rudramuni, **Krishnamoorthy Kandasamy**, Qingfeng Zhang, Xiao-Lan Tang, Abhishek Kandwal, Puneeth Kumar, Tharehalli Rajanna, Haiwen Liu, *"Goubau-Line Leaky Wave Antenna for Wide-Angle Beam Scanning From Backfire to End-fire*", ***IEEE Antennas and Wireless. Propag. Lett.,*** *vol. 17, issue 8, pp. 1571-1574,* Aug. 2018.

7) Princy M Paul, ***Kandasamy K***, *Sharawi MS, "A tri-band slot antenna loaded with split ring resonators"*, ***Microw. Opt. Technol. Lett,*** Vol. 59, no. 10, PP. 2638-2643, Oct *2017.*

6) Basudev Majumder, **Krishnamoorthy K**, Jayanta Mukherjee,and K.P.Ray,"Compact Broadband Directive Slot Antenna Loaded with Cavities and Single and Double Layers of Metasurfaces", **IEEE Transactions on Antennas and Propagation**, Vol. 64, no. 11, PP.

4595 - 4606, Nov 2016. **(Among top 3 frequently accessed articles for IEEE TAP in Nov 2016)**

5) **Krishnamoorthy K.**, Basudev Majumder, Jayanta Mukherjee and K. P. Ray, "Dual-Band Circularly Polarized Split Ring Resonators Loaded Square Slot Antenna", **IEEE Transactions on Antennas and Propagation**,vol. 64, no. 8, pp. 1-6, August 2016. **(Among top 6 frequently accessed articles for IEEE TAP in Aug 2016)**

4) Basudev Majumder, **Krishnamoorthy K**, Jayanta Mukherjee and K. P. Ray, "Frequency Reconfigurable Slot Antenna Enabled by thin Anisotropic Meta-surface Layer", **IEEE Transactions on Antennas and Propagation,** vol. 64, no. 4, pp. 1218-1225, April 2016.

3) **K. Kandasamy**, B. Majumder, J. Mukherjee and K. P. Ray, "Low-RCS and Polarization-Reconfigurable Antenna Using Cross-Slot-Based Metasurface," ***IEEE Antennas Wireless. Propag. Lett.,*** vol.14, no., pp.1638-1641, 2015.

2) **K. Krishnamoorthy**, B. Majumder, J. Mukherjee and K. P. Ray, "Low Profile Pattern Diversity Antenna using Quarter-mode Substrate Integrated Waveguide," ***Progress In Electromagnetics Research Letters,*** Vol. 55, 105-111, 2015.

1) B. Majumder, **K. Krishnamoorthy**, J. Mukherjee and K. P. Ray, "Wideband Compact Directive Metasurface Enabled Pair of Slot Antennas," ***Electronics Letters***, vol.51, no. 17, pp. 1310-1312, 2015.

Alva's Institute of Engineering & Technology

Shobhavana Campus, Mijar, Moodbidri, D.K – 574225

Phone: 08258-262725, Fax: 08258-262726

Department of Electronics and Communication Engineering

16-19

Technical Talk Attendance

3RD SEM EC (A - SECTION)

Sl. No	USN	NAME OF THE STUDENT	Talk-1	Talk-2	Talk-3	Talk-4	Talk-5
			11/08/18	10/09/18			
1	4AL17EC001	Abhishek	P	P			
2	4AL17EC002	Abhishek M Shastry K	P	P			
3	4AL17EC003	Abhishek Vasudev	P	P			
4	4AL17EC004	Ajitha	P	A			
5	4AL17EC005	AkshanSandeep D Souza	P	P			
6	4AL17EC006	Akshatha M Deshpande	P	P			
7	4AL17EC007	AkshathaRanganath	P	P			
8	4AL17EC008	Akshay	P	P			
9	4AL17EC009	Bhavith	P	P			
10	4AL17EC010	BhoomikaRamachandra	P	A			
11	4AL17EC011	Bindushri	P	P			
12	4AL17EC012	Brunda H Y	P	P			
13	4AL17EC013	Brunda P D	P	P			
14	4AL17EC015	Chandan C	P	P			
15	4AL17EC018	Chandana G S	P	A			
16	4AL17EC020	Channabasava	P	P			
17	4AL17EC021	Chethan Kumar	P	P			
18	4AL17EC022	Cyril Prashanth	A	P			
19	4AL17EC023	Darshan H B	P	P			
20	4AL17EC025	Dhamini C L	P	P			
21	4AL17EC026	DhanyaShetty	P	A			
22	4AL17EC027	Dhavala	P	P			
23	4AL17EC029	Disha	P	P			
24	4AL17EC030	Divyashree L V	P	P			
25	4AL17EC031	DivyashriBahubali	P	P			
26	4AL17EC032	Gagan M K	P	P			
27	4AL17EC033	HaraviSoujanyaBalappa	P	A			
28	4AL17EC034	Harsha P	P	P			
29	4AL17EC035	HemalathaSanil	P	P			
30	4AL17EC036	JagadeeshaHegde	P	P			
31	4AL17EC037	Jyoti S Donur	P	P			
32	4AL17EC038	K Muthu	P	P			
33	4AL17EC039	K Vishal Pawade	P	P			
34	4AL17EC040	Kavya M M	P	A			
35	4AL17EC041	KishanShetty	P	P			
36	4AL17EC042	Kishore N	P	P			
37	4AL17EC043	Lavanya B	P	P			
38	4AL17EC044	Lepakshi T V	P	P			

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Phone: 08258-262725, Fax: 08258-262726

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39	4AL17EC045	M V Ramya	P	P			
40	4AL17EC046	MadiwalarAkshata	P	P			
41	4AL17EC047	MadugondeManjunatha	P	P			
42	4AL17EC048	Mahesh H	P	P			
43	4AL17EC049	Mamatha V R	P	A			
44	4AL17EC050	Manjunatha H K	P	P			
45	4AL17EC051	MayyaSharathkumar	A	P			
46	4AL17EC053	Mohanababu D G	P	P			
47	4AL17EC054	Monica S	P	P			
48	4AL17EC055	Mounitha D M	P	P			
49	4AL17EC057	NagaGanesh N	P	P			
50	4AL17EC058	Namratha J Nair	P	P			
51	4AL17EC060	Navya	P	P			
52	4AL17EC061	Bhargavi	P	P			

Technical Talk Coordinator

Alva's Institute of Engineering & Technology

Shobhavana Campus, Mijar, Moodbidri, D.K – 574225

Phone: 08258-262725, Fax: 08258-262726

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Technical Talk Attendance

7TH SEM EC (A - SECTION)

Sl. No	USN	Name	Talk-1	Talk-2	Talk-3	Talk-4	Talk-5
			10/09/18	31/10/18			
1	4AL14EC019	Bindu M D	P	P			
2	4AL14EC039	Harshitha M S	P	P			
3	4AL15EC001	A Shreya	A	P			
4	4AL15EC002	Akash Ashok Neelnayak	P	P			
5	4AL15EC003	Akshata Kashinath Shinde	P	P			
6	4AL15EC004	Akshata Patil	P	P			
7	4AL15EC005	Alfiya Kouser	P	P			
8	4AL15EC007	Amitkumar Konnur	P	P			
9	4AL15EC008	Ananya M	P	P			
10	4AL15EC009	Anjali H R	P	P			
11	4AL15EC010	Anusha K	P	A			
12	4AL15EC011	Arpana	A	P			
13	4AL15EC012	Ashritha	P	P			
14	4AL15EC014	Bindu P	P	P			
15	4AL15EC015	Chaithanya S P	P	P			
16	4AL15EC016	Challa Meghana	P	P			
17	4AL15EC017	Charan Raj S	P	P			
18	4AL15EC018	Deepika N Karanth	A	P			
19	4AL15EC019	Devika H S	P	P			
20	4AL15EC020	Dheeraj S Shetty	P	P			
21	4AL15EC021	Dinesh Nagappa Ambig	P	P			
22	4AL15EC022	Divyashree A K	P	P			
23	4AL15EC027	Gouthami K	P	P			
24	4AL15EC028	Haripriya R	P	P			
25	4AL15EC029	Harshitha D	A	P			
26	4AL15EC030	Harshitha N P	P	P			
27	4AL15EC033	Jeevitha K	P	P			
28	4AL15EC034	Joel Crasta B	P	P			
29	4AL15EC035	Karotiya Rishabh Radhekrishna	P	P			
30	4AL15EC037	Keerthana I K	P	P			
31	4AL15EC039	Lakshmi Narsimha Kulkarni	P	P			

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Shobhavana Campus, Mijar, Moodbidri, D.K – 574225

Phone: 08258-262725, Fax: 08258-262726

Department of Electronics and Communication Engineering

32	4AL15EC040	Likhitha P	P	P			
33	4AL15EC044	Maha Lakshmi	P	P			
34	4AL15EC046	Mangarshi Aishwarya Nagaraj	A	P			
35	4AL15EC047	Manjula Puranikmath	P	P			
36	4AL15EC048	Mayur Shikhare	P	P			
37	4AL15EC049	Megha A Kadadavar	P	P			
38	4AL15EC051	Monisha P	P	P			
39	4AL15EC052	Namratha	P	A			
40	4AL15EC104	Abhishek	P	P			
41	4AL16EC402	Ganesh	P	P			
42	4AL16EC408	Preethika J	P	P			

Technical Talk-Coordinator

Alva's Institute of Engineering & Technology

Shobhavana Campus, Mijar, Moodbidri, D.K – 574225

Phone: 08258-262725, Fax: 08258-262726

Department of Electronics and Communication Engineering

Technical Talk Attendance

7TH SEM EC (B - SECTION)

Sl. No	USN	Name	Talk-1	Talk-2	Talk-3	Talk-4	Talk-5
			10/09/18	3/11/18			
1	4AL15EC053	Nithin Krishnan K	P	P			
2	4AL15EC054	Pavan K Rao	P	P			
3	4AL15EC055	Pavan Kumar T J	P	A			
4	4AL15EC056	Pavithra G K	P	P			
5	4AL15EC057	Pooja M	P	P			
6	4AL15EC058	Pooja Parameshwar	P	P			
7	4AL15EC059	Poojary Manish Shekhar	A	P			
8	4AL15EC060	Poonam Madan Gunagi	P	P			
9	4AL15EC061	Pradeep Kumar R	P	P			
10	4AL15EC063	Priya Suresh Naik	P	P			
11	4AL15EC064	Priyanka	P	P			
12	4AL15EC065	Priyanka Bangari	P	P			
13	4AL15EC066	Priyanka H G	P	P			
14	4AL15EC067	Rahul Itnal	P	P			
15	4AL15EC068	Rakshitha Rao U	P	P			
16	4AL15EC069	Ranjitha	P	A			
17	4AL15EC070	Rashmi Rao	P	P			
18	4AL15EC071	Rohan R	P	P			
19	4AL15EC073	Rupesh N	P	P			
20	4AL15EC074	Sakkubai Salapur	A	P			
21	4AL15EC075	Sandhya B J	P	P			
22	4AL15EC078	Sharanamma R P	P	P			
23	4AL15EC080	Shefali S Shetty	P	P			
24	4AL15EC081	Shivaraj Suresh Navade	P	P			
25	4AL15EC082	Shraddha	P	P			
26	4AL15EC083	Shruthi I T	P	P			
27	4AL15EC084	Sneha G N	P	P			
28	4AL15EC085	Sree Charan B R	P	P			
29	4AL15EC086	Srilaxmi Upadhyaya	P	P			
30	4AL15EC088	Sumanth M S	P	P			
31	4AL15EC090	Suresh Mallikarjun Naragund	P	P			
32	4AL15EC091	Sushmitha S	A	P			

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Phone: 08258-262725, Fax: 08258-262726

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33	4AL15EC092	Teena Lobo	P	P			
34	4AL15EC093	Thirtha A L	P	P			
35	4AL15EC095	Vanashree	P	P			
36	4AL15EC096	Varsha P	P	P			
37	4AL15EC098	Varshitha P J	P	P			
38	4AL15EC099	Vasasnth Kumar M	P	A			
39	4AL15EC101	Vinay B	P	P			
40	4AL15EC102	Vinaya Nagesh Naik	P	P			
41	4AL15EC103	Yashwanth M	P	P			
42	4AL16EC401	Bhagya	P	P			
43	4AL16EC403	Gowda Rachita B .V	P	P			
44	4AL16EC407	Prakash	P	P			
45	4AL16EC413	Veerendrakumar	P	P			

Technical Talk Coordinator

ALVA'S EDUCATION FOUNDATION (R.)

MOODBIDRI - 574 227, D.K.

DEBIT / CREDIT VOUCHER

No :

Date 10-09-18

Sl.No.	Particulars	College Code	Debit (₹)	Credit (₹)
a	Honorarium		2500/-	
b				
c				
d				
e				
	PAYABLE / RECEIVABLE		-	
	TOTAL		2500/-	

Rupees Two thousand five hundred only

Narration Paid towards the resource person, Dr Kaishnamoorthy K, Technical Talk, Dept of ECE, AIET, Mijar

Prepared by | Principal | A.O. | Authorised by | Receiver's / Remitter's Signature

(8)