RAJEEV INSTITUTE OF TECHNOLOGY

E-LITE

2021

Volume-I



GAIN_EMBED_INTEGRATE

Department of Electronics and Communication Engineering

RAJEEV INSTITUTE OF TECHNOLOGY

Plot 1-D, Growth Center, B-M Bypass Road, Hassan, Karnataka 573201
Phone: 08172-243180/81/83, Web: rithassan.ac.in

Department of Electronics and Communication Engineering

VISION

To create professionally competent and ethically behavioural Electronics and Communication Engineers capable of working across the globe.

MISSION

- To impart quality education relevant to electronics and Communication Engineering.
- To ensure the learning of latest technologies for career advancements in the relevant field.
- To instigate professional ethics, leadership qualities and societal service.

PEO's

- To provide students with fundamentals and in-depth knowledge in electronics and communication engineering including theoretical knowledge, practical skills and problem-solving abilities.
- To train students in multidisciplinary areas to analyse, design and innovate solutions to real world problems leading to socio economic development.
- To inculcate individual, team work and leadership qualities by upholding professional and ethical values.

PSO's

- Graduates will have strong foundation in communication, embedded systems, VLSI and electronic circuits.
- Graduates will be able to apply the knowledge of electronics and communication engineering to identify, formulate and solve engineering and societal problems with the aid of modern tools and techniques.
- Graduates will be able to work effectively in challenging environments by upholding ethical values in their profession leading them to become potential entrepreneurs.

PRESIDENT MESSAGE



Dr. Rachana Rajeev M.B.B.S., M.D.

I have great pleasure in conveying my best wishes to the Department of Electronics and Communication Engineering for releasing the department magazine "E-LITE" which brings the students and teachers of various semesters on a common platform to share and display their ideas and creative talents. I wish all the students who have involved in bringing out the magazine for their greater success and career ahead.

Best Wishes,

Dr. Rachana Rajeev,
President, RET

PRINCIPAL MESSAGE



Dr. A N Ramakrishna B.E, M.Tech, Ph.D

I am happy to release the Department Magazine E-LITE 2021 issue of Electronics and Communication Enginerring.

It gives me great pleasure to congratulate Students, Faculty and Staff of the Electronics and Communication Enginerring department for the publication of the Magazine, enumerating the various departmental activities and achievements of our students and faculty during this Year.

BEST WISHES,

Dr. A. N. Ramakrishna,
Principal, RIT

HOD MESSAGE



Dr. Aravind B. N. B.E., M.Tech., Ph.D.

It brings me great pleasure to address you through this message for the latest edition of Department magazine of Electronics and Communication Engineering Department, "E-LITE"

Our students and colleagues continue to make our Department proud as they have shown extravaganza performance in the curricular, co-curricular and extra-curricular activities. Through this magazine, I hope to share all the remarkable accomplishments of our Department.

I would like to thank our management, Principal, colleagues, students and other stakeholders for supporting us and making it possible to contribute back to society. With your support, our, Department will continue to excel and contribute to our society to make it a better place to live.

BEST WISHES,

Dr. Aravind B N,
HOD, RIT

FACULTY DETAILS



Dr. Aravind B.N.
Professor & Head,
Department of Electronics & Communication Engineering



Mrs. Ambika K
Assistant Professor, Department of Electronics & Communication Engineering



Mrs. Rekha M G
Assistant Professor, Department of Electronics & Communication Engineering



Mr. Vishwanath B R
Assistant Professor, Department of Electronics & Communication Engineering



Mr. Ravikiran H.K.
Associate Professor, Department of Electronics & Communication Engineering



Mr. Ravi L.S
Assistant Professor, Department of Electronics & Communication Engineering



Mrs. Yogeshwary B.H.
Assistant Professor, Department of Electronics & Communication Engineering



Mr. Rohith P.
Assistant Professor, Department of Electronics & Communication Engineering



Mr. Yashwanth N
Assistant Professor, Department of Electronics & Communication Engineering



Mrs. Manasa A
Assistant Professor, Department of Electronics & Communication Engineering



Mrs. Lokeshwari H S
Assistant Professor, Department of Electronics & Communication Engineering



Mrs. Shalini I S
Assistant Professor, Department of Electronics & Communication Engineering

NON - TEACHING STAFF



Mrs.Sayyada Gazala Taskin
Foreman, Department of Electronics & Communication Engineering



Mrs. Shubha H M
Instructor, Department of Electronics & Communication Engineering



Mr. Mohankumar H S
Assistant Instructor, Department of Electronics & Communication Engineering

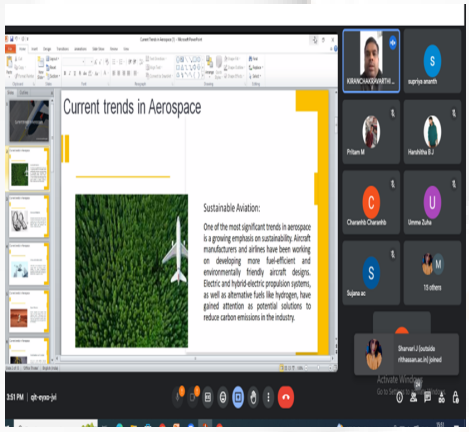


Mr. Manjunath N R
Attender, Department of Electronics & Communication Engineering

Department Activites

“ Current Trends in Aerospace”





The department of Electronics and Communication has organized a webinar on “Current Trends in Aerospace” for 6th Semester students of ECE in association with IETE, Mysore on 15th May 2021.

The resource person was Mr. Kiran Chakravarthi S, Design Engineer, SB Digital Automation, Munchun , Germany.

“Use of 5G beyond Technology : Future Telecommunication”


RAJEEV INSTITUTE OF TECHNOLOGY, HASSAN

Plot 1-D, Growth Center, B-M Bypass Road, Hassan, Karnataka 573201

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Seminar on

“Use of 5G beyond Technology: Future Telecommunication”

Resource Person: Dr. Naveen B, Associate Professor, Dept. of E&CE, BGSIT, Bellur, Mandya

Organized in association with IETE

Date: 8th May 2021

Through: Online Platform

Dr. Rachana Rajeev, President, RET, Hassan

Dr. Ranjith Rajeev, Vice President, RET, Hassan

Dr. B N Rathna, Secretary, RET, Hassan

Dr. Ramakrishna A N, Principal, RIT, Hassan

Dr. Aravind B N, Professor & HOD, Dept. of ECE, RIT, Hassan

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Web: www.rithassan.ac.in Phone: 08172-243180/81/83

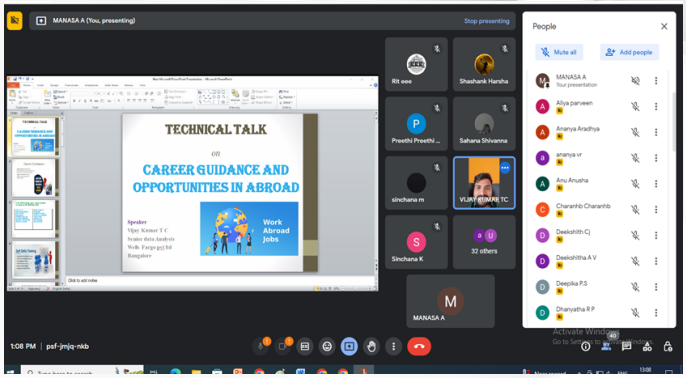


The Department of Electronics and Communication has organized a Seminar on “Use of 5G beyond Technology : Future Telecommunication” for 8th Semester students of ECE in association with IETE, Mysore on 8th May 2021.

The resource person was Dr. Naveen B, Associate Professor, Dept. of E&CE, BGSIT, Bellur, Mandya.

“Career Guidance & Opportunities in Abroad”



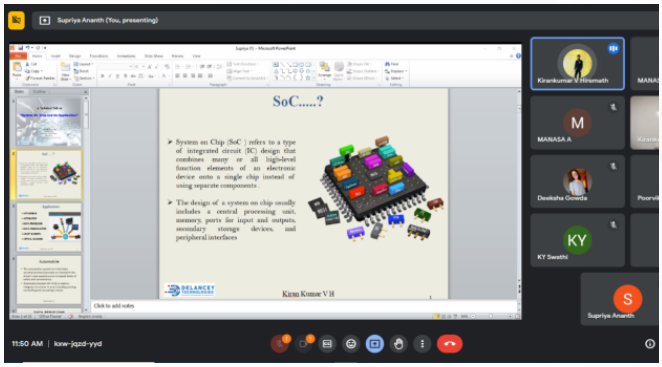


The Department of Electronics and Communication has organized a Technical talk on “Career Guidance & opportunities in Abroad” for 7th Semester Students of ECE department in Association with IETE, Mysuru on 9th January 2021.

The resource person was Mr. Kiran Chakravarthi S, Design Engineer, SB Digital Automation, Munchun, Germany.

“System on Chip & its Applications”





The Department of E&CE, in association with IETE has conducted a Technical Talk on “System on Chip & its Applications” for 7th Semester Students on 11th December 2021. The resource person was Mr. Kiran Kumar V H, Lead Engineer, Dalency Technologies, Bangalore.

Faculties awarded with Ph.D. by VTU



Dr. Yashwant N



Dr. Ravikiran H K

Student Achievements

- Programmable low cost UV-C and sanitizing room disinfecting ROBO for controlling pandemic infection using IoT at VTU, Belagavi Presented by Lavanya, Nagaveni, Priyanka and Ramya under the guidance of Mr.Vishwanath B R.
- Ms.Kavyashree S G participated in National Level IEEE Project Exhibition held at GSSSIETW, Mysuru
- Ms. Revathi R P, Ms. Anusha P, Ms. Thara M C has participated in State Level Paper Poster Presentation competition held on 30th Sep 2021 at Sapthagiri College of Engineering, Bengaluru, in association with IETE Bengaluru
- Mr. Shivaranjan H P, Mr. Abhay K P has participated in VTU Inter Collegiate Central Karnataka Zone Men Volleyball Tournament2021-22 held on 31st Nov to 1st Dec 2021 at SIT, TUMKUR
- Mr. Vikas R has participated in Workshops on State level entrepreneurial event held on Dec 3rd and 4th of 2021 at FIGMA workshop at Malnad college of engineering, Hassan
- Ms. Khushi A M has participated in Workshops on State level entrepreneurial event held on Dec 3rd and 4th of 2021 at FIGMA workshop at Malnad college of engineering, Hassan
- Ms. Nischitha I S has participated in Workshops on State level entrepreneurial event held on Dec 3rd and 4th of 2021 at FIGMA workshop at Malnad college of engineering, Hassan
- Ms. Vishmitha D has participated in Workshops on State level entrepreneurial event held on Dec 3rd and 4th of 2021 at FIGMA workshop at Malnad college of engineering, Hassan
- Ms. Kruthika H M has participated in International Competiti on Embedded System using Tinker CAD held on July 24th , 2021 at East Point College of Enginerring and Technology, Bengaluru.

Faculty Achievements

- Dr. Aravind B N, Dr. Yashwanth N and Mrs. Yogeshwary B H has been granted with patent on "Decentralized Data Storage and Processing Method for Automatic Wireless Network Authentication in an IoT System" by the Indian Patent office.
- Dr. Ravikiran H K has been granted with patent on "An efficient ROI bases Hybrid Progressive Medical Image Transformation & Reconstruction" by the Indian Patent office.
- Dr. Aravind B N has published a Book titled "Arduino for Beginners : Basics to IoT" BUUKS publisher, April 2021.
- Mr. Rohith P successfully completed the NPTEL course " Introduction to Research".

Faculty Publications

- ***Dr. Yashwanth N and Mrs. Yogeshwary B H " Sensor Node Localization and Visualization in Underwater Sensor Networks " International Journal of Advanced Scientific Innovation (IJASI), Vol 1, Issue 2, pp 1-6, 2021.***
- ***Dr. Ravikiran H K "Pyramid based Progressive Transmission System with Hybrid Compression Scheme for Medical Images " Springer Nature Computer Science, Vol2, Issue 3, pp 155, 2021.***

Faculty Attended FDPs

- ***Mrs. Lokeshwari H S has attended "Advances in Microwave Antenna Design using Full-wave Electromagnetic Solver", organized by School of Electronics & Communication Engineering, Reva university, Bengaluru from 23.08.2021 to 27.08.2021.***
- ***Mr. Ravi L.S has attended "AICTE Training and Learning (ATAL) Academy Online Elementary FDP" on "Faculty Development Programme on "VLSI - IP DESIGN Approach to SRAM compiler design" at GM Institute of Technology from 16/08/2021 to 20/08/2021.***
- ***Mr. Ravi L.S has attended "AICTE Training and Learning (ATAL) Academy Online Elementary FDP" on "Developing Effective Research Skills" at PES College of Engineering from 09/08/2021 to 13/08/2021.***
- ***Dr. Ravikiran H. K has attended Online Five days FDP on" FPGA based deep learning applications in signal Processing" organized by AICTE Training And Leaming (ATAL) Academy from 05/07/2021 to 09/07/2021.***
- ***Mrs.Ambika K has attended 5 days Online elementary ATAL FDP on "Design Thinking" at NITTTR, Chandigarh from 31.12.2021 to 04.01.2022.***
- ***Dr. Aravind B N, Mr. Vishwanth B R and Mrs. Lokeshwari H S has attended Five Days Virtual FDP on "An Overview of Teaching Techniques in Basic Electronics and Communication Engineering" Organized by VTU-HRDC, VTU PG Center Muddenahalli, Chikkaballapur from 13.12.2021 to 17.12.2021.***
- ***Mrs.Ambika K has attended AICTE-VTU joint online training programme on "An overview of teaching techniques in innovation and design thinking" by VTU-HRDC from 06.12.2021 to 10.12.2021.***
- ***Dr. Ravikiran H. K, Mr. Ravi L.S and Mrs.Yogeshwary B H have attended 5-day online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education(AICTE) from 22.11.2021 to 26.11.2021.***
- ***Mrs.Ambika K, Mrs. Manasa A and Mrs. Lokeshwari H S have attended 5-days Online FDP on "Inculcating universal human values in technical education" by AICTE from 25.10.2021 to 29.10.2021.***
- ***Mr. Ravi L.S ,and Mrs. Lokeshwari H. S have attended "Five Days National Level Workshop on Academic & Research Writing", Organized by Department of ECE, ATME College of Engineering, Mysuru from 25.03.2021 to 31.03.2021***
- ***Dr. Ravikiran H. K has attended Five days FDP on "Electrical & Computer Engineering" organized by AICTE Training And Leaming (ATAL) Academy at Mahendra Engineering College Autonomous from 22.2.2021 to 26.2.2021.***

EDITORIAL BOARD

Faculty Editors



Mrs. Ambika K
Assistant Professor, Department of Electronics & Communication Engineering



Mr. Rohith P.
Assistant Professor, Department of Electronics & Communication Engineering

Student Editors



Adeeb Naiyer
7th Sem
Department of Electronics & Communication Engineering



Thara M. C.
7th Sem
Department of Electronics & Communication Engineering



Varun M. S.
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Department of Electronics & Communication Engineering