Go, change the world

RV COLLEGE OF ENGINEERING®

Electronics & Telecommunication Engineering

(Autonomous Institution Affilated to VTU, Belagavi)

R.V Vidyaniketan Post, 8th Mile, Mysuru Road,
Bengaluru-560059.

RVCE...

RV College of Engineering (RVCE) established in 1963 is one of the earliest self-financing engineering colleges in the country. The institution is run by Rashtreeya Sikshana Samithi Trust (RSST) a not for profit Trust. RVCE is an Autonomous Institute. Currently, the institution offers 12 Bachelor, 17 Master Programs and all the departments have research centres, affiliated to Visvesvaraya Technological University (VTU) Belagavi. The institution Ranked 63rd in the Country by National Institutional Ranking Framework (NIRF) during 2018-19. "Engineering College of the Year-2018" by the Higher Education Review Magazine, Ranked 38th in the country by The Week Magazine-2019, Ranked 9th among the top 10 of 100 Pvt. Engg. Colleges in the Country by Education World Magazine. The institution is accredited by NAAC. Eleven UG programs and eligible M.Tech & MCA programs have been accredited by NBA multiple times. The institution has to its credit over 1300 National and International Journal publications, filed over 40 patents, 37 published patents, completed sponsored research and consultancy projects worth Rs. 30.0 crores in the last three years. The College currently has student strength more than 5500, faculty strength of above 375, technical & administrative Staff of about 225 and around 200 Research Scholars are pursuing Ph.D.

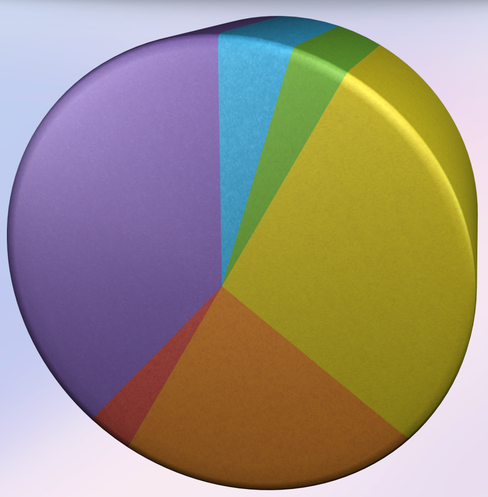
Department of Electronics and Telecommunication Engineering (E&TE)

- **The Department of Electronics and Telecommunication Engineering (Telecommunication Engineering) was established in the year 1992.**
- **It offers one UG programme – B E in Electronics & Telecommunication Engineering, two PG programmes – (i) M.Tech in Digital Communication, (ii) M.Tech in RF & Microwave Engineering and Ph.D are affiliated to VTU. All the programs under the department have been accredited under TIER – I .**
- **A total of 23 experienced faculty members supporting four core specializations (Networking, Wireless Communications, Signal processing and Embedded Systems).**
- **Industry Specific Laboratory- Advanced RF and wireless communication lab by Keysight Technologies is established to carry out research development and product Engineering.**
- **Department has MOU with companies such as Keysight Technologies & Samsung R&D for enhancing the research profile and quality projects.**
- **Students are also a part of many innovative clubs like Ashwa racing car team, Garuda – unmanned aerial vehicle, TedEx team, Rotaract club, NSS, NCC, Raag, and many more**

M.Tech in RF & MICROWAVE ENGINEERING:

- The Department of Electronics & Telecommunication Engineering started PG Program M.Tech in "RF and Microwave Engineering", in the year 2013 with an intake of 18 students. The program is approved by AICTE and State Government and affiliated to VTU, Karnataka.
- Today's requirements in the emerging areas of smartcities, remote healthcare, 5G, E-Mobility, Automation etc, have led to newer research areas in the domain of RF and microwave, whether it is physical connectivity, system design, circuit design, newer components, RF sensors or materials and processes.
- In spite of the high requirement of RF engineers in various industries including DRDO, MNC's and other public sector, there is dearth of availability of qualified and skilled human resources in this area.
- A total of 3 faculty members were dedicated to PG-RF program with their core specialization in RF circuits & System design.
- Keysight Technologies Ltd has established the Design and characterization of RF circuits and system Laboratory particularly for M.Tech in RF and Microwave Engineering students.
- Students are encouraged to participate in various domain specific training programs, workshops and conference.

Course Credits Distribution



Admission Criteria

- Admission to post graduate courses is as per the KEA norms either through Graduate aptitude test for Engineering (GATE), or PGCET.
- Eligible GATE students get scholarship through AICTE.

Curriculum Structure

The Outcome based curriculum is designed to make the students excel in areas of RF passive and active circuit design, MMIC design, Computational Electromagnetics, EMI and EMC, wireless Communications, and Antenna designs. To build on these strong base, students can specialize by choosing electives like Tracking and Navigation Systems, Statistical Signal Processing, MEMS for Wireless Communication, satellite communication, Optical Communications & Networking.

- The programme in RF and Microwave Engineering is spread over four semesters. Autonomous schemes of 2016 and 2018 have total credits of 100 and 88 respectively. The programme is designed as per Outcome Based Education (OBE) and in alignment with the Program Outcomes (POs) satisfying VTU and AICTE guidelines for autonomy.

Scan for Detailed curriculum

P.G. (M.Tech in RF & MWE) Rank Holders

VTU (2015-17)BATCH		
1RV15LRF02	Basavaraju D. R	I
1RV15LRF15	Soumya M	II
1RV15LRF10	PoojaArali	III

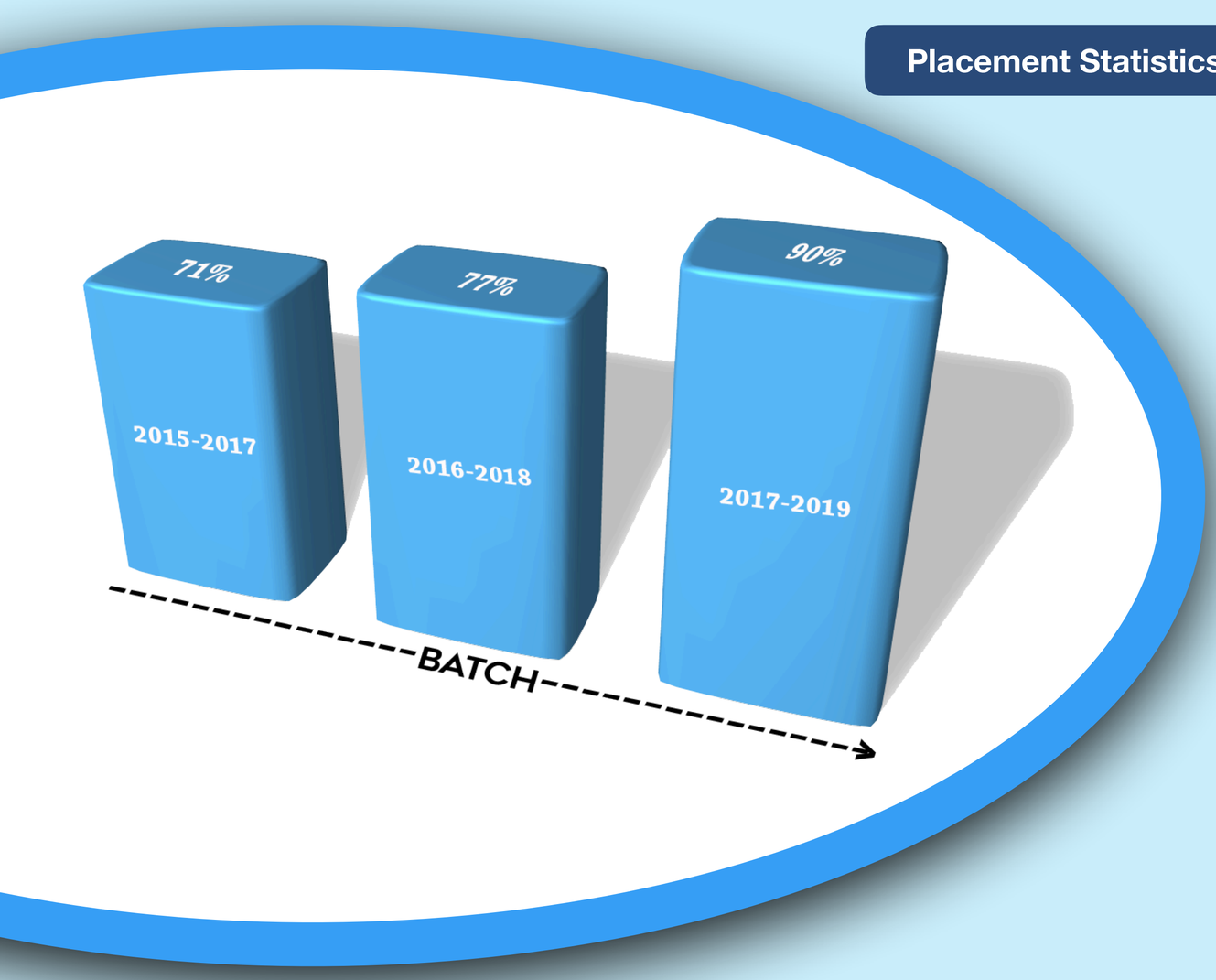
(2016-2018 Batch) Ist Batch of Autonomous		
1RV16LRF12	Srikanth .K	I
1RV16LRF14	Usha P	II
1RV16LRF07	Preeya H. Patil	III

(2017-2019 Batch) 2nd Batch of Autonomous		
1RV17LRF09	Sudeep. D. K	I
1RV17LRF07	Lakshmi Devi. R	II
1RV17LRF06	Kruthi. M	III

The average pass percentage above 80-85% with a very low drop rate.

Placements

Placement Statistics of PG (RF & MWE)



- **Highest salary package – Qualcomm– with 14 L package, Average – 9.2 L, and Lowest – 4.4 L. Moreover, all the students who has got internship opportunities through the campus placements are further converted into permanent jobs.**

Entrepreneur

- Mr. Raghavendra G Patil has established a company called Sarvadrik Engineering & Solutions.

Major Recruiters

ALPHA DESIGN TECHNOLOGIES, Altair, SAMSUNG, ICON DESIGN AUTOMATION, BOSCH Invented for life, सी-डॉट C-DOT, NATIONAL INSTRUMENTS, intel, DRDO, इसरो ISRO, veoneer, ARICENT, Honeywell, Qualcomm, CENTUM TEAM WORK | TECHNOLOGY | TRUST, TATA, TATA POWER, NOKIA Connecting People

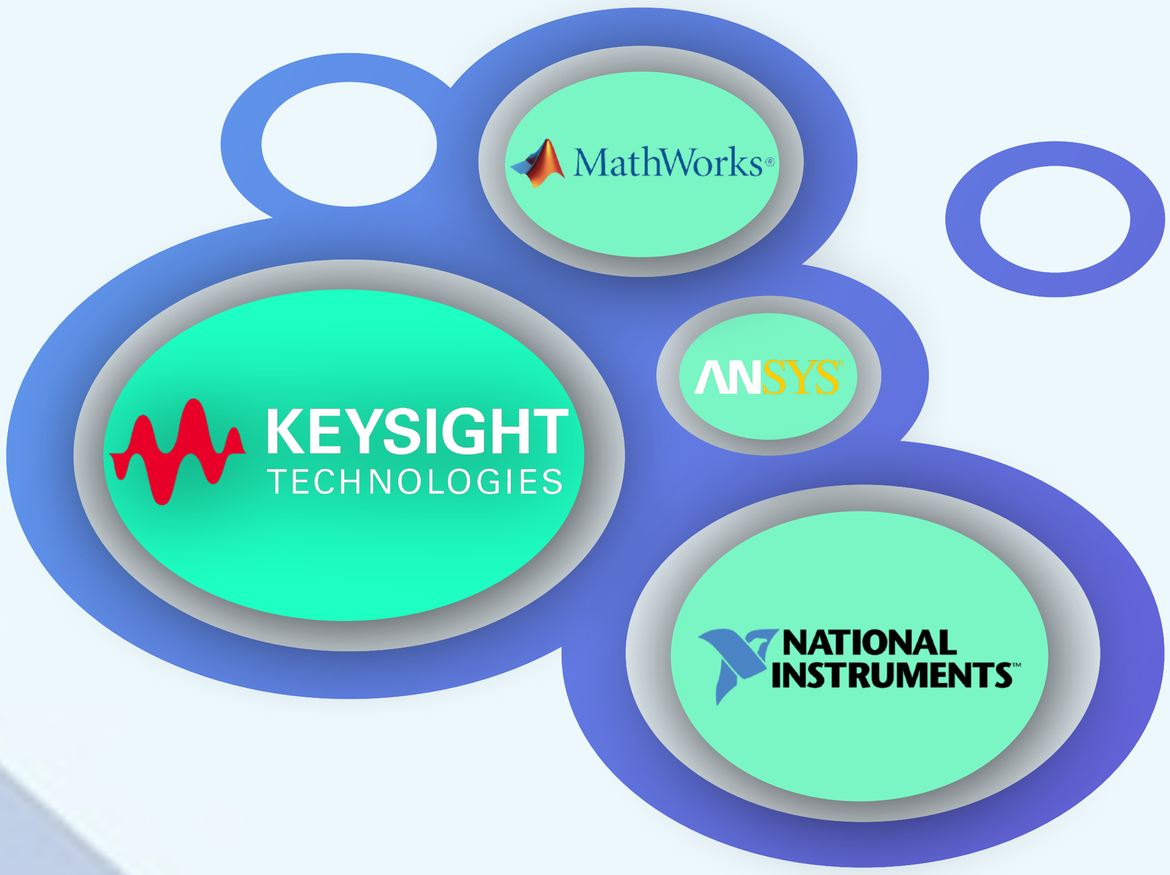
Facilities & Infrastructure

There are well equipped labs with various modern equipments such as:

- Keysight Vector Signal Analyser [7KHz-7GHz]
- Keysight Vector Signal Generator [upto 6GHz]
- Keysight MIMO Baseband Generator and Channel Emulator
- Keysight Mixed Signal Oscilloscope
- Keysight Vector Network Analyzer [upto 13GHz]
- Software defined radio kits

CAD TOOLS

- Keysight ADS
- Keysight System Vue
- Keysight EMPro
- Matlab R2019b
- NI AWR
- Ansys HFSS



LABORATORIES

.01

- RF & Wireless Communication Lab

.02

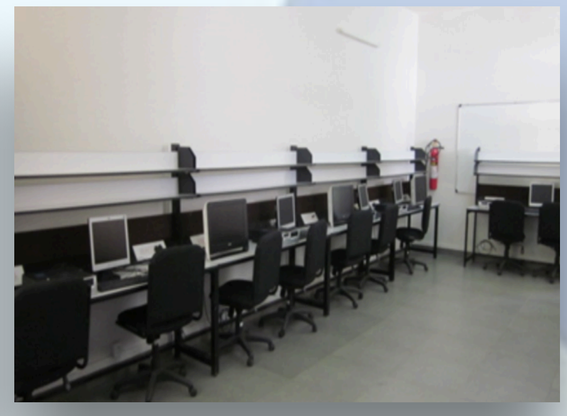
- Digital Communication Lab

.03

- Lekha GNU Radio Lab

.04

- A dedicated Project and Research Lab - To carry-out Minor/Major

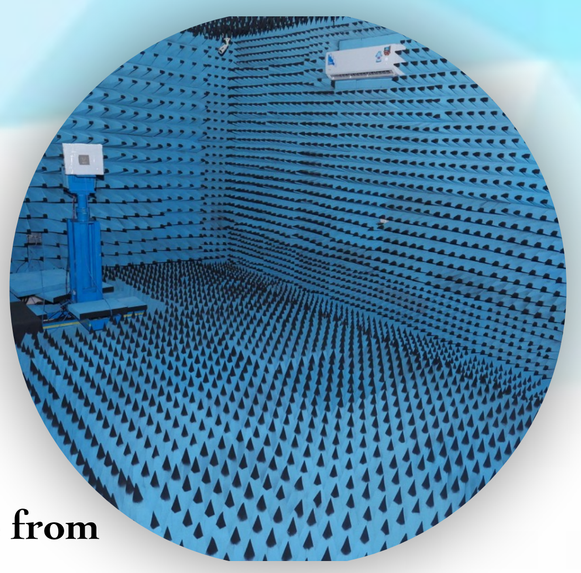


SEMINAR HALL

The Department has a well-equipped Audio-video Seminar hall with Tele-Conferencing facilities to conduct trainings, meetings, demonstrations, workshops and seminars.

Central Facility

Anechoic chamber



- Frequency range from 700MHz to 40GHz

Interdisciplinary Research Center

Events & Co-curricular activities

Various workshops, training programs and seminars are conducted on RF Active and Passive circuit designs and state of the art communication technologies. Few are listed below

- "5G Technology" – One day workshop conducted on 16th October, 2019.
- "RF Instruments and Measurement" – Hands on workshop conducted on 8th November, 2019
- "Training Program on NI AWR software"- One week training program conducted during May20-25th 2019
- "Emerging Technologies in Short Range Wireless Communication"– One week workshop conducted from 2nd to 6th of July, 2018
- "Training on Active RF/Microwave Circuit Design using ADS software" -One Week workshop conducted from Feb 26th - march 3rd 2018.
- National Conference – Every year a two day National Conference is organized in the department on the eve of World Telecommunication and Information society day (WTISD) on 17th and 18th of May. We also release our annual newsletter "Tarangavani" and a souvenir.

The faculty of the department are associated as resource persons in consultancy and training programs such as

- "Hands on Training on Design, Fabrication, Characterization and Troubleshooting of RF Subsystems" for M/s Tata Consultancy Services.
- "Training program on Antenna design" for Border Security Force (BSF), Bengaluru
- Felicitation and recognition of rank holders and best outgoing student awards are provided by TCS and Cognizant technologies every year
- Scholarships are offered to minorities/economically backward students to encourage their studies.

Association with professional bodies

Association with professional bodies

Faculties and students are members of IEEE Society, IETE and ISTE

Dr. Sreelakshmi K, Professor and HoD, Member of IEEE Antenna and Propagation, MTT Societies.

Dr. Shanthi P, Associate Professor, Member of IEEE Antenna and Propagation Society.

Mr.Radhakrishna K, M.Tech Student(RFMW), IEEE Member

Mr.Manjunath Reddy H V, Alumni, Fellow IEEE member

Department involves M.Tech students in IEEE ComSoc chapter and IEEE Antenna and Wave propagation chapter of the institution.

Alumni

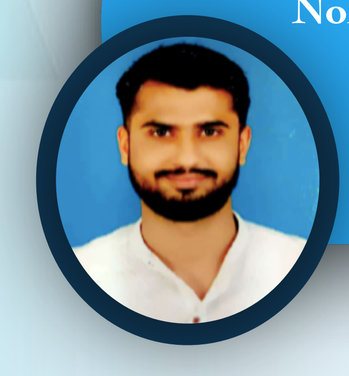
Department level alumni meet is conducted on 4th Sunday of September, every year. Alumni members are involved in board of studies for curriculum design and as resource persons for various workshops and training programs.

Few prominent alumni:

Ms. Madhu G
Samsung electronics

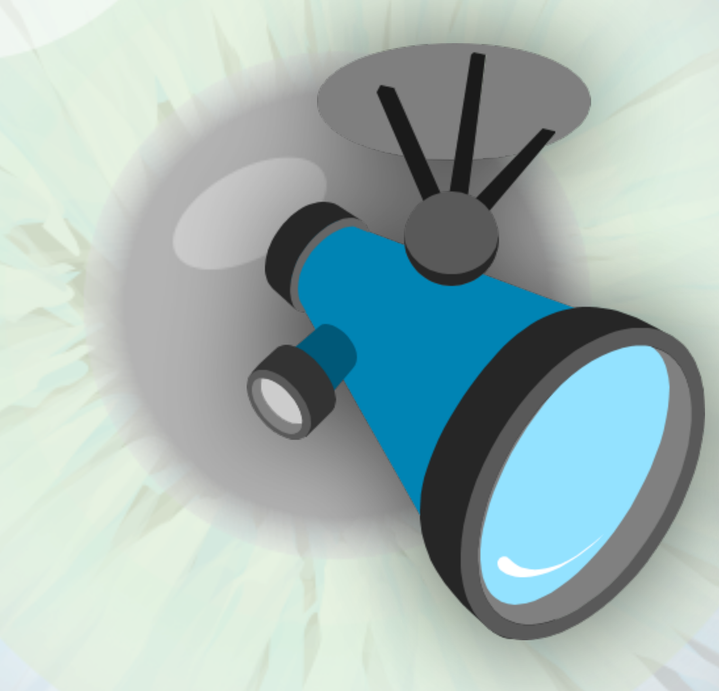
Mr. Manjunath Reddy,
National Instruments

Alumni



Mr. Sudeep DK,
Nokia Pvt.Ltd

Mr. Srikanth K R,
Qualcomm



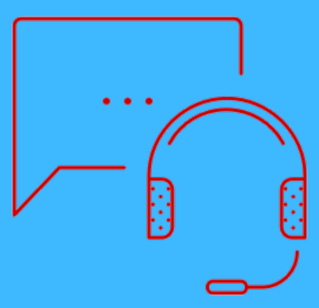
Vision:

- Imparting quality education in electronics and telecommunication engineering through a focus on fundamentals, research, and innovation for sustainable development.

Mission:

- Provide education that prepares students to contribute effectively to the profession and society in the field of Telecommunication.
- Create state of art infrastructure with a focus on Telecommunication Engineering.
- Encourage students to be innovators to meet local and global needs with ethical practice
- Create an environment for faculty to carry out research & contribute to their field of specialization.
- Establish a strong and wide base linkage with industries, R&D organizations, and academic institutions.

For Contact:



Dr.K.Sreelakshmi
Prof &Head,
Department of Electronics and Telecommunication Engineering,
RV college of Engineering
Bengaluru-560059
Landline No: 080-67178040/41

Alumni Co-ordinator:

Shambulinga M,
E-mail: shambulingam@rvce.edu.in

SCAN FOR MORE INFO