



# RV COLLEGE OF ENGINEERING®

(Autonomous Institution Affiliated to VTU, BELAGAVI)

RV Vidyaniketan Post, Mysuru Road,  
BENGALURU - 560 059



## HAND BOOK OF GENERAL INFORMATION

Academic Rules, Regulations and Guidelines for Students of

# Postgraduate Programs

of

# 2018 SCHEME

(WITH EFFECT FROM 2019-20)

## **VISION**

**Leadership in Technical Education, Interdisciplinary Research & Innovation, with a Focus on Sustainable and Inclusive Technologies.**

## **MISSION**

- To deliver **Outcome Based Quality Education**, emphasizing on experiential learning with state of the art infrastructure.
- To create a conducive environment for interdisciplinary research and innovation.
- To develop professionals through **holistic education** focusing on individual growth, discipline, integrity, ethics and social sensitivity.
- To nurture industry-institution collaboration leading to competency enhancement and entrepreneurship.
- To focus on technologies those are **sustainable and inclusive**, benefiting all sections of the society.

## **QUALITY POLICY**

Achieving Excellence in Technical Education, Research and Consulting through an Outcome Based Curriculum focusing on Continuous Improvement and Innovation by Benchmarking against the global Best Practices.

## **CORE VALUES**

Professionalism, Commitment, Integrity, Team Work and Innovation



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### Glossary of Abbreviations

1.	<b>Academic Autonomy</b>	Freedom given to a College in all aspects of conducting its academic programmes, granted by the University for promoting excellence (within the guide lines of VTU)
2.	<b>AC</b>	Academic Council
3.	<b>Autonomous College</b>	College designated as an autonomous college by the university, as per the VTU Autonomous College Statute- 2006.
4.	<b>BoS</b>	Board of Studies
5.	<b>CIE</b>	Continuous Internal Evaluation
6.	<b>Commission</b>	University Grants Commission
7.	<b>Council</b>	All India Council for Technical Education
8.	<b>CGPA</b>	Cumulative Grade Point Average
9.	<b>GAC</b>	Grading Advisory Committee
10.	<b>Lateral Entry</b>	Such students who have joined the programme in the second year of four-year programme
11.	<b>MHRD</b>	Ministry of Human Resources Development
12.	<b>NSAR</b>	Not Satisfied Attendance Requirement
13.	<b>NSSR</b>	Not Satisfied Sessional Requirement (did not get the Minimum CIE requirement to appear for SEE)
14.	<b>Regular B. E</b>	Such students who have joined the programme in the first year of four-year programme
15.	<b>SEE</b>	Semester End Examination
16.	<b>SGPA</b>	Semester Grade Point Average
17.	<b>University</b>	Visvesvaraya Technological University (VTU)
18.	<b>UG</b>	Undergraduate Programme
19.	<b>PG</b>	Postgraduate Programme
20.	<b>MCA</b>	Master of Computer Applications
21.	<b>MPD</b>	M.Tech in Product Design & Manufacturing
22.	<b>MDC</b>	M.Tech in Digital Communication
23.	<b>MCE</b>	M.Tech in Computer Science & Engineering
24.	<b>MCM</b>	M.Tech in Computer Integrated Manufacturing
25.	<b>MVE</b>	M.Tech in VLSI Design & Embedded Systems
26.	<b>MCN</b>	M.Tech in Computer Network Engineering
27.	<b>MMD</b>	M.Tech in Machine Design
28.	<b>MCS</b>	M.Tech in Communication Systems
29.	<b>MPE</b>	M.Tech in Power Electronics
30.	<b>MBS</b>	M.Tech in Bio-medical Signal Processing & Instrumentation
31.	<b>MST</b>	M.Tech in Structural Engineering
32.	<b>MSE</b>	M.Tech in Software Engineering
33.	<b>MIT</b>	M.Tech in Information Technology
34.	<b>MHT</b>	M. Tech in Highway Technology
35.	<b>MBT</b>	M. Tech in Biotechnology
36.	<b>MBI</b>	M.Tech in Bioinformatics
37.	<b>MCH</b>	M.Tech in Chemical Engineering
38.	<b>MRM</b>	M.Tech. in Radio Frequency & Microwave

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## 1.0. PROFILE OF THE INSTITUTION

### 1.1 RASHTREEYA SIKSHANA SAMITHI TRUST (RSST)

The last decade of pre-independence India was marked with several initiatives and entrepreneurial ventures. One such unique venture was the founding of Rashtreeya Sikshana Samithi Trust (RSST), by Sri. M.C. Sivananda Sarma, a freedom fighter and a scholar in the year 1940. The organization started with a noble mission to impart quality education to all sections of the society, without any favour or bias towards any one. Today, the charitable trust provides avenue for quality education, catering to a wide sector of educational needs, starting from kindergarten to post graduate education as well as research in advanced engineering, medical and architecture domains. The sustained growth and success is due to the dedicated efforts of the management and their continued commitment to the founders vision, mission, quality, continuous improvement and concern towards social responsibility. Today the trust is managed by a very distinguished board of trustees led by **Dr. M.K. Panduranga Setty, President & Chairman Governing body, Sri. C.V. Hayagriv and Shri Panditharadhya, Vice Presidents, Shri K.G. Subbarama Setty, Hon. Treasurer, Shri A.V.S. Murthy, Hon. Secretary and Shri D.P. Nagaraj, Hon. Joint Secretary.**

The board of trustees, recognizes the importance of holistic education and a need for a learning environment that nurtures healthy competition and innovation. Rashtreeya Sikshana Samithi Trust **manages over twenty educational institutions including schools, colleges offering degree and post graduate programmes in different specialties.** RSST continuously strives to create state of art infrastructure, recruit excellent faculty and facilitate efficient administration in all its institutions to provide congenial ambiance for learning. Today RSST is regarded as one of the finest and the best managements in education in the country.

### 1.2 RV COLLEGE OF ENGINEERING

#### *Marching towards Excellence in Education, Research and Innovation*

Rashtreeya Vidyalaya College of Engineering (RVCE) established in 1963 is one of the earliest self-financing engineering colleges in the country. **RV College of Engineering** is the flagship institution of RSST. RVCE provides opportunities to all sections, including to the under privileged, differently abled and socially marginalized people to gain engineering skills through various programs like WEST-Women Empowerment and Skill Training etc.

RVCE is rated amongst the top five self-financing engineering colleges in the country, and some magazines have rated it as the best institute in the country among private institutes, including in terms of the **best Return on Investment for a student.** RVCE is a preferred destination for top ranking aspirants, both for UG and PG programmes. RVCE is an **Autonomous college**, affiliated to **Visvesvaraya Technological University (VTU), Belagavi.** It has its own Academic Council which is empowered to approve academic curriculum as suggested by Board of Studies of various programmes. All the processes are followed as per the **VTU guidelines for autonomous institutions.** RVCE currently **offers 12 Bachelor, 17 Master Programmes** with also provision for Ph. D studies in all the departments and carries out Research and Consultancy activities. All UG programmes have been accredited multiple times. Some of the PG programmes have been accredited and other eligible PG programmes have gone for accreditation. The college currently has **student strength** of about **5600, faculty strength of more than 400, Technical & Administrative Staff** around **250** and about 230 Research Scholars are pursuing Ph.D.

The institution has set itself a Vision ***“Leadership in Quality Technical Education, Interdisciplinary Research & Innovation, With a Focus on Sustainable and Inclusive Technology”.***

All its projects are in line with the vision of sustainable and inclusive technology development, with a focus to contribute to both technological leadership of the nation and at the same time contributing to the development and welfare of all sections of the society. RVCE is rapidly expanding its R&D activity and Industry academic collaboration.

### ***1.2.1 Academics & Autonomy:***

RVCE was granted Autonomous Status by the VTU, UGC and Government of Karnataka in the year 2007 for its undergraduate programs and in the year 2016 for postgraduate programs. Being an Autonomous college affiliated to VTU, RVCE prescribes its own syllabi and academic activities. A special emphasis is on **experiential learning** and **Outcome Based Education (OBE)**. The academic activities concentrate on helping the students to gain an excellent theoretical knowledge base and in the development of skills to implement them. The latest teaching aids from multimedia equipment to simulation techniques ensure a thorough learning process. The college regularly invites experts and industry professionals to impart practical skills and lessons to students. Industrial visits are encouraged to help the students to grasp the technology at work. It is up to the student to take advantage of opportunities provided and build a bright future.

### ***Outcome Based Education (OBE)***

- UG programmes are for 175 Credits, out of which, 50 credits are for Experiential Learning and Project Based Learning.
- PG (MTech) Programs are designed for 88 credits, out of which 28 credits are for Electives and 30 credits are for Project Based Learning.
- Regular advanced Pedagogical Training for faculty to enhance Teaching-Learning Process.
- Students are involved in use of ICT tools including e-learning material, MOODLE, NPTEL, MOOCS, as a part of Experiential Learning.
- Flipped Class Room and other ICT initiatives in Teaching & learning.
- Initiation of research culture for first year students through Journals reference for self-study & assignment.
- Use of Online Assessment, Software Assisted Learning, EDUSAT Programmes and Language Lab.
- Designing and recording of Course Material in Digital Media Centre.
- RVCE's unique initiative includes providing all students with a platform to engage in research and innovation. This has led to development of India's first PICO satellite, Formula style combustion, hybrid and electric Racing Cars, Unmanned Aviation Vehicles (UAV's, Radio-controlled and Autonomous) and Robotics. The students have consistently won awards not just in India but all parts of the world. The Formula Hybrid team of RVCE has won 2nd position in the worldwide Formula Hybrid competition conducted by SAE & IEEE held in New Hampshire, USA consistently during the last two years in 2017 & 2018. The All-Terrain Vehicle team has won 2nd position in the acceleration event in addition to overall commendable performance at the International Baja competition conducted by SAE held in USA in 2016. Recently the students have initiated a new project 'Antariksh' which plans to build a nano satellite and launch it with bio payload (first time in the history of Indian space mission) with support of ISRO in 2019. Team Krushi have developed automated aerial platform which works with hydraulic power of tractor and also participating in this year's ASABE competition held in USA.
- Believes in overall development of students. The institution encourages the students' participation in co-curricular and extra-curricular activities viz. Cultural, Sports, NCC, NSS, ROTRACT and other social clubs.

RVCE has leveraged its 12 years of autonomy to make education learner centric. Some of the facilities within the campus also provide an opportunity to the students to get oriented to the practical aspects of engineering. The whole campus is well and seamlessly connected with optical fiber and close to 250+ wireless access points located strategically all across the campus, with a further scope for scalability. Every student is given an official e-mail ID once student is admitted to the institution.

RVCE also has excellent labs including 35 labs set up by industry. Some of the companies who have set up labs include **IBM, EMC<sup>2</sup>, Samsung, ABB, PACE Electronics, Freescale Semiconductor, CISCO, NXP, Texas Instruments, Wipro, Infosys, Bosch Rexroth, Mind Tree, Lapp Cable, Cognizant, Bosch, Keysight (Agilent), Sparx, TE Connectivity and Tejas Networks**. Further students have access to an exhaustive library with both printed and electronic version of books (>1 Lakh Volumes) and journals (> 4000 journals) and also a Digital Learning Center for developing e-learning material to facilitate the students. After successful completion of the program, more than 96% of the eligible students are placed through campus selection, or selected for higher education in the best of institutions across the globe and some even take up entrepreneurship.

### **1.2.2 Achievements & Research Initiatives:**

#### **A. Research Initiatives:**

RVCE was one of the first colleges to have its entire Bachelor program accredited by National Board of Accreditation (NBA), as per the guidelines of the All India Council for Technical Education (AICTE), New Delhi, India. MHRD chose RVCE for the review /assessment of India's new NBA process by International Observers, to enable India to enter the Washington Accord. RVCE utilizes its expertise in various disciplines take up Research and Development for Industry and Defense Establishments in the country. Innovative projects are supported by the Management. RVCE has a collaborative arrangement with leading universities in Germany for Post-Graduate and Research programmes. There are more than 200 scholars pursuing Ph.D. under the various Research Centers. 32 patents are either granted or filed by RVCE and plans are on to file over 50 patents by the end of 2019-20. In line with the roadmap to set up an Innovation and Incubation Center in the Golden jubilee year (2013-14), the first such a facility has been initiated with TE Connectivity. RV Incubation Center is started to promote Innovation Activation, Fostering Startups and Entrepreneurship Development. We intend to Support entrepreneurs to develop businesses, Accelerate growth and success of start-ups during initial stages, Provide shared co-working spaces, Provide highly conducive environment for Innovation activation, Provide technical mentoring for product development, Provide Lab/Fab facilities, Establish Networking and linkages, for product launching marketing, branding and for venture capital, Provide assistance/Organize seed funding, Provide statutory/legal assistance for company registration/taxation, Provide assistance for IPR. Any R V College Under graduate (7th Semester and above) or Post graduate students (3rd Semester and above), are given first preference. RV Alumni or any other technical graduate from other colleges who have good innovative Idea are also eligible.

RVCE's unique initiative include providing research, innovation and even environment for startup platforms for the graduate or bachelor students, as an integrated process in their curriculum. This has led to development of systems including India's first **PICO satellite, Hybrid automobiles, Unmanned Aviation Vehicles (UAV), Tele presence Robot and Racing Cars**. The students have consistently won awards not just in India, but in all parts of the world for their design and innovation. **The race car team has won the best Asian Team award at Italy consecutively for the last two years. The Autonomous Air Vehicle won a special mention by US Navy and best systems engineering award from NASA in USA. RVCE students have won awards for development/demonstration of innovative ideas from multiple agencies including ISA, Volvo, Motorola, Intel, Analog devices, Texas Instruments, IBM and KSCST. RVCE has leveraged its autonomy and in the last 8 years to make the education more learner centric and experiential. Students are encouraged to attend conferences and workshops and present their work.**

RVCE was also awarded the **“Best Innovative Spirit Award”** at CII Innovation Conference in March 2012 for facilitating its students to participate in multiple technological contests. Strong Entrepreneurship development cell motivates the students to take up self-employment ventures. Already close to 10% of the alumni are entrepreneurs. Even last year a startup company by two of our outgoing students Mr. Srikanth Talwar and Ravikiran, competing with Multinationals, got selected to develop the online admission process for the Diploma Program, facilitated by KEA, Government of Karnataka.

Mr. Arun Murthy, one of our alumni and one of the founders of “Horton works” which became the fastest ever venture to touch 100 million revenue in just 4 years. There are more than 1000 alumni who have their own ventures in India and abroad.

### ***Interdisciplinary Research & Innovation:***

- More than Rs. 25 crores worth sponsored research projects executed in last 5 years and Rs. 15 crores worth projects in process.
- Executed more than Rs. 2.5 crores worth of consultancy work in the last three years.
- Journal Publications: H index 1 to 15 and I10 index 1 to 20
- Total Citations (last 3 years): Scopus Index– 1774, Google Scholars-6583, Web of Sciences-1034.
- Filed 32 Patents (last 3 years). 27 Patents have been published in the Gazette of the Indian Patent Office.
- Non Destructive Testing laboratory from VGST, GoK.
- High Performance Computing lab from DST, in CSE Dept.
- Centre of Excellence in Macroelectronics (MHRD-TEQIP II)
- CISCO-RVCE Centre of Excellence in Internet of Things (IoT)
- State-of-the-art Interdisciplinary Research Centre with sophisticated instruments / equipment.

### ***B. Achievements & Recognitions***

- **Ranked 63<sup>rd</sup>** in the country - **NIRF-MHRD** during 2019-20.
- Team HELIOS stood 5<sup>th</sup> Place in overall ranking, 2<sup>nd</sup> Place in costing, 4<sup>th</sup> Place in Business Plan (among 75 participating teams) in the ATV Championship ESI Enduro held at Coimbatore during 4<sup>th</sup> -7<sup>th</sup> Jan. 2018.
- Team Fuzzy AI won 1<sup>st</sup> Runner Up in the AICTE- Smart India Hackathon 2018- Software edition (Part 2) & Hardware edition (Part 2) competitions during Apr. & June 2018.
- Engineering College of the Year-2017 award by the Higher Education Review Magazine.
- Ranked 7<sup>th</sup> among top 113 Pvt. Engg. Colleges by The Week Magazine.
- Ranked 8<sup>th</sup> among the top 10 of 100 Pvt. Engg. Colleges in the Country by Education World Magazine.
- Campus Partner: QEEE – IIT-Madras, Chennai and offered 49 online courses and virtual lab. in the last three years.
- Well Performing Institute by MHRD-TEQIP (Phase – II) and graded ‘A’ at National level.
- High rank students prefer to join the institution through entrance exams including CET, COMEDK, GATE, PGCEET.
- Best NCC Institute for Karnataka & Goa Directorate – 2017-18.
- Rated ‘AAA’ grade by NPTEL based on performance in NPTEL Online Certification courses and second in the country for the period July-Oct 2018.
- Team Ashwa Racing won 2<sup>nd</sup> Place in the 2017 Formula Hybrid Competition (in the overall category) at New Hampshire Motor Speedway in Loudon, USA during Apr. 2017.
- Over 25 Alumni of RVCE have cleared Civil Services examinations since last 3 years.
- Ranked 2<sup>nd</sup> in Sports & Cultural Activities under VTU, Belagavi.
- Mr. Avinash M and Mr. Aravind M have been selected in the Indian Team to participate in the 18th Asian Games-2018 (Swimming Competition) to be held at Jakarta (Indonesia) from 18<sup>th</sup> Aug. to 2<sup>nd</sup> Sept. 2018.

### ***C. Some Other Unique Research and other Initiatives***

- a. Developing indigenous technology for growth of Nanomaterials, SoC and characterization equipment.

- b. Establishing a 100 KW biomass based power plant, and working on a wide range of biomass as fuel.
- c. A 14 KW Solar electrical grid tied power generator facility.
- d. Developing a novel technology for converting waste coal and lignite to clean fuel like methane and alcohol.
- e. Developing a novel amorphous silicon solar cell based Plasmonic cells.
- f. Developing high temperature (~400 to 500°C) solar thermal receiver tubes.
- g. Developing environment friendly concrete using waste from different sources for civil construction which also uses lesser water and dries faster.
- h. Infrastructure set up to measure air and water quality.
- i. Developing indigenous process equipment, materials including metal-metal composites, fiber reinforced polymer composites and nano materials embedded composites for space, defense and avionic applications
- j. Developing compact wind mills
- k. Developing hybrid automobiles and all-terrain vehicles
- l. Rainwater harvesting over 6.5 million liters in the campus & Setting up STP plant in the campus for 250,000 liters
- m. Developing the 4th Generation antennas for communication technology for defense and space applications.
- n. Developing novel medical instrumentation for rural and telemedicine
- o. Establishing clean room facility for development of Large Area and Flexible Microelectronics and Vacuum Nano electronics

#### ***D. Revised Focus on Research in line with the Institutional Vision***

By identifying institutional strength, interdisciplinary research areas have been identified, with the emphasis on creating a **Unique Selling Point (USP)** for the institute. The institute has also decided to work with industries big and small, in line with the RVCE Vision, to help RVCE and nation transform into a leader in Knowledge and Technology, as India was 500 years ago. RVCE is looking to contribute to sustainable development as practiced in ancient India and as advocated by the father of the Nation Mahatma Gandhi. The motto is, “**Leveraging global knowledge and delivering local solutions**”.

In this process RVCE engages with industries and institutions:

- From small incremental development to development of disruptive innovation;
- Carrying out **Right from Market Survey to Concept Creation, Proof of Concept, Development, Testing & Verification to Pilot production;**
- Provision for end to end solution with indigenization and provision for scale up in collaboration with industries.

**Research activities can be broadly classified under the following interdisciplinary research area as given below:**

- a. Materials & Manufacturing engineering with additional capability for Design for Optimization of Manufacturing processes and production. Including polymers, composites, wide range of nano materials (metals, ceramics and semiconductors) and amorphous materials,.
- b. Sensors, Networks and Communication (up to THz).
- c. Nano Science, Surface Engineering & MEMS.
- d. Data Mining/ Data warehousing or Business Intelligence, Cloud Computing, High Performance Computing, Natural Language Processing,
- e. Environment Friendly and Sustainable Technologies with Enable Smart buildings and Smart Cities including Structural Engineering.
- f. Clean & Renewable Energy, Energy Efficiency & Management,
- g. Large Area and Plastic / Printable (Flexible) Microelectronics.
- h. Advanced Instrumentation including Medical Instrumentation.
- i. Highways and Transport technology.

- j. Signal & Image processing.

**Some of the ongoing projects in line with the Institutional Vision of “Innovation for Sustainable and Inclusive Development” include:**

- a. CISCO-RVCE Centre of Excellence in Internet of Things (IoT)
- b. **DST funded** project for Development of a novel nanomaterial enabled, inexpensive, amorphous silicon based Plasmonic solar cell on glass substrate.
- c. Developing environment friendly concrete for housing construction which also uses lesser water and dries faster, including using waste from different sources
- d. Study & Development of Image compression Algorithm for satellite Images for use for Bhuvan (**ISRO**)
- e. **ISRO** funded facility for monitoring air, wind, weather, noise and water and assessing its quality as also GPS and RS data analysis used for environment monitoring and city and town planning.
- f. Developing novel medical instrumentation including compact hand held X-ray sources and Ultrasound sources for affordable healthcare and telemedicine application
- g. Developing novel room temperature grown Nanocarbons based thin film transistor.
- h. A biofuel production and characterization facility (50 liters)
- i. Developing compact wind mills, solar PV and thermal systems and integrated power generation study
- j. Developed hybrid automobiles and autonomous aerial and underwater vehicles
- k. Harvesting over 10 million liters of Rainwater in the campus (**funded by KPMG**) and set up an STP plant in the campus for 250,000 liters, scalable to 5 Lakh liters. Also running an Effluent Treatment Plant (ETP).
- l. First institute in the country to offer courses and establish clean room facility for development of Large Area and Flexible Microelectronics and Vacuum Nano electronics. (Technology useful for future use and throw electronics and wearable electronics).
- m. Centre for Skill and Personality development programme for SC & ST students funded by AICTE.

### ***1.2.3 Student Activities and Community Services Programmes:***

Participation in NSS, NCC, Sports, and Cultural Activities are encouraged and given prime importance for overall development of the students. Sports persons are given adequate facilities in terms of allowances, uniforms and attendance to compete in university, interstate, national and international competitions. There are various cultural clubs in which the students can participate. Ms. Pooja Alava and M. Arvind have represented India in World Universities meet and World championships in various countries including Spain and Russia. Three RVCE students represented VTU at the inter-varsity Chess tournament at Malaysia and even enhanced their ELO ratings by wining individual and team prizes. .

R V Centre for Social Services and Skills Promotion (SKIP) and Women Empowerment and Soft Skill Training (WEST), helps children and women to become trained and even become self-reliant. As a part of the social responsibility a FM Community Radio project is in the pipeline. RVCE can boast of its alumni cell and is in the process of further strengthening its links with over 30000 of its alumni.

RVCE is proud of the prominent alumni including Mr. Anil Kumble, Mr. Chetan Babbur in sports, Mr. Ashok Nayak Former HAL Chairman, Gopichand Kattargadda former MD GE JWTRC and currently CTO Tata group of companies, and Mrs. Vijayalakshmi Bidari, I.A.S. Officer, the list is endless. RVCE alumni also include many top CEOs, MDs, Sr.VP, VPs and General Managers in many National and International MNCs and state and central PSUs.

### ***1.2.4 Infrastructure: The 52 Acres of serene Green Campus of RVCE has an infrastructure that provides excellent learning ambience:***

- a. RVCE has 7,37,000 sqm of instructional area housing 15 departments.

- b. RVCE has 154 well-furnished class rooms and tutorials, most of them equipped with Multimedia Projectors supporting modern teaching techniques.
- c. RVCE has 13 Air conditioned seminar halls spread over the Campus.
- d. Spacious Laboratories / workshops with latest equipment catering to the respective programmes.
- e. Interdisciplinary Research laboratories with latest equipment and software including facility for semiconductors device and integrated circuit fabrication.
- f. Fully equipped Placement and Training department with seminar hall, Group Discussion and interview rooms.
- g. The central Library is spread over 2088 sqm. It also has Digital library and internet facilities.
- h. The institution has an electrical Diesel generator backup of 980 KW and 500KW of solar power which is grid tied.
- i. Girls Common Room
- j. Complete networking of the entire campus with Wi-Fi facility for faculty and students.
- k. Six bedded fully equipped health center with one isolation ward.
- l. The sports facilities include Indoor Basketball court, Indoor shuttle Badminton court, Synthetic Tennis court, Football and Cricket grounds, spread over 25500 sqm.
- m. Multi Gym. Facility & fitness center.
- n. Four boys Hostel blocks in the campus that can accommodate about 1200 students and two girl's hostels near the campus that can accommodate about 350 students.
- o. Other support facilities available are: Post Office, Bank with ATM facility, Pharmacy, stationary shop and reprographic facility
- p. Spacious and modern Food Court.
- q. State-of-art Incubation Center.
- r. Virtual studio, RVCE-CISCO Video conference and IoT Training Center.
- s. RV-Toyota Kirloskar Center of Automotive lab.
- t. Skill development program from MCA.
- u. Centre of Competency for Automation Technologies (Bosch Rexroth Lab).
- v. High Performance Computing Lab.
- w. Mercedes-Benz training center.
- x. Soorya Mitra: Skill development training program.
- y. Smart Grid and Renewable Energy lab.

### ***1.2.5 Faculty:***

**The strength of RVCE is its Faculty and staff.** There are around 400 faculty members in various cadres namely Professors, Associate Professors, Assistant Professors, and Visiting Professors as per AICTE norms. The faculty members have wide experience in academics, as scientists, industry professionals and Researchers drawn from various specializations and reputed institutions & organizations. Faculty not only expertise in modern teaching methodologies, they also have research projects and publications to their credit. The faculties are ably supported by around 250 technical and administrative staff.

### ***1.2.6 Students Achievements***

Over the years there have been over **200 toppers** (rank holders and medalists) in University examinations. Over **100 sportspersons** have represented University, State and National in various levels of events. Many students have won prizes in Cultural Activities at University, State, National and International level events starting from dramatics to Quizzing. Due to a strong sports and cultural activities RV has been ranked the best institution in this arena.

### ***1.2.7 The Industry-Institute Collaboration***

**Industry representatives** are members of the BoS and AC. There are a few electives offered by industries to fill the gap between the industry requirement and curriculum. Technical lectures and industry visits are arranged by all the departments. Besides the programmes and courses, the students also get the opportunity to take up internship at various industries, government organizations and public-sector undertakings, advanced R&D labs under DRDO, ISRO, CSIR and other agencies. The institution facilitates core courses, local and global electives in coordination with industries.

RV College of Engineering through Industry Institute Interaction cell (IIIC) has around 90 MoUs, amongst which 52 are with industries, 31 are with R%D organizations, 3 with Government bodies and 1 with international Universities. The industries are covered in all categories of large scale (58%), small scale (25%) and medium scale (19%). The Activities through the MoUs span vast with emphasis on R&D activities focusing on software, hardware, material development, thin film coatings, etc (47%), student centric activities like internship, student projects(20%). These MoUs also helps the institute in improving the infrastructure (17%). Consultancy is of course the major intention of these MoUs (16%), however, needs to be concentrated upon more. The international University collaboration is with Florida University, where in RVCE would be involved with Florida University in activities of organizing joint workshops/conferences, joint publications and projects.

Innovation and Incubation Center have been setup. Four companies are in process of being incubated. Thus, multiple platforms have been created for both students and faculty to jointly engage in Innovative projects and research. The outcomes of these efforts have been exhibited at science exhibitions and trade fairs and they have been highly appreciated by the scientific & business community.

In conclusion, RVCE with its extensive infrastructure, state-of-art technology, expansive laboratory facilities, valuable affiliations and recognitions, networked partner industries and R&D labs and inspiring academic results, is keen to ensure that in the knowledge economy, the institute truly becomes an international class institute, in tune with its vision and mission. It is the aspirations of faculty and management to nurture and boast of many innovators and entrepreneurs, besides producing quality engineers and technologist for the country.

**1.3 Academic Programmes Offered**

RVCE offers the following Undergraduate, Post-graduate & Doctoral study programmes. RVCE also offers a wide range of proficiency courses, German courses and plans to start a series of certificate and diploma courses.

**a) Undergraduate Programme**

Sl. No.	Program	Year of Starting
1	B.E. in Civil Engineering	1963
2	B.E. in Mechanical Engineering	1963
3	B.E. in Electrical & Electronics Engineering	1963
4	B.E. in Electronics & Communication Engineering	1972
5	B.E. in Industrial Engineering & Management	1980
6	B.E. in Electronics & Instrumentation Engineering	1981
7	B.E. in Chemical Engineering	1982
8	B.E. in Computer Science & Engineering	1984
9	B.E. in Telecommunication Engineering	1992
10	B.E. in Information Science & Engineering	2000
11	B.E. in Biotechnology	2002
12	B.E. in Aerospace Engineering	2015

**(b) Postgraduate Programme**

Sl. No.	Program	Year of Starting
1	Master of Computer Applications	1997
2	M.Tech in Product Design & Manufacturing	2004
3	M.Tech in Digital Communication	2004
4	M.Tech in Computer Science & Engineering	2004
5	M.Tech in Computer Integrated Manufacturing	2005
6	M.Tech in VLSI Design & Embedded Systems	2005
7	M.Tech in Computer Network Engineering	2005
8	M.Tech in Machine Design	2006
9	M.Tech in Communication Systems	2006
10	M.Tech in Power Electronics	2006
11	M.Tech in Bio-medical Signal Processing & Instrumentation	2006
12	M.Tech in Structural Engineering	2006
13	M.Tech in Software Engineering	2006
14	M.Tech in Information Technology	2007
15	M. Tech in Highway Technology	2009
16	M. Tech in Biotechnology	2011
17	M.Tech. in Radio Frequency & Microwave	2013

**C) Diploma (UG & PG) and Certificate Courses /Proficiency courses**

The institution has a provision to start Diploma (UG and PG) programmes under autonomous scheme. This will help in-house and external professionals and students to gain additional skills in the state of the Art Technology and Science.

Proficiency / Certificate courses are also being offered from time to time for both UG and PG students for upgrading their knowledge and skills. Such courses are open to outside participants also.

**Advanced Diploma in Automotive Mechatronics:**

RV College of Engineering, Bengaluru and Mercedes-Benz India Private Ltd have jointly developed a skill based 'Advanced Diploma in Automotive Mechatronics' (ADAM) course which is aimed to train the job aspirants in Automotives with high skills in Modern Automotive Diagnosis, Servicing and Maintenance in line with global market demand.

**FHWS-RVCE Programme:**

The University of Applied Sciences Würzburg-Schweinfurt (FHWS) in Bavarian state of Germany has an MoU with RVCE as its education/research partner. RVCE assists Indian students for admission in one of the three BE programs Mechatronics, Business & Engineering and Logistics taught in English at FHWS. RVCE Bangalore conducts one year bridge course (a requirement of German university) before their admission to FHWS.

**d) Research Centers:**

The following departments offer M.Sc (Engg.) by research and Ph.D., recognized by VTU.

Sl. No.	Programme	Year of Starting
1.	Mechanical Engineering	1999
2.	Chemical Engineering	2000
3.	Electronics & Communication Engineering	2004
4.	Industrial & Engineering Management	2004
5.	Telecommunication Engineering	2004
6.	Computer Science & Engineering	2004
7.	Civil Engineering	2005
8.	Biotechnology	2008
9.	Chemistry	2008
10.	Information Science & Engineering	2011
11.	Master of Computer Applications	2011
12.	Physics	2011
13.	Electronics and Instrumentation Engineering	2011
14.	Mathematics	2011
15.	Electrical and Electronics Engineering	2012
16.	Library and Information Centre	2015

## 2.0 ADMISSION PROCESS

### 2.1 ELIGIBILITY RULES FOR ADMISSION TO MASTER OF TECHNOLOGY PROGRAM

Admission to the Master of Technology course shall be open to all the candidates who have passed BE/B.Tech Examination of VTU (as per the eligibility criteria specified from time to time) or any other University / Institution. The decision of the equivalence committee will be final in establishing the eligibility of the candidates for a particular course. For the candidates with foreign degrees equivalence certificate from the association of Indian Universities is a must.

Candidates who have completed their pre-requisite degree through the distance mode education are NOT eligible for admission to M.Tech.

Admission to M.Tech program shall be open to the candidates who have passed the prescribed qualifying examination with not less than 50% of the marks in the aggregate of all the years of the degree examination. However in case of candidates belonging to SC/ST and Category I, the aggregate percentage of marks in the qualifying examination shall not be less than 45%.

The candidate must have secured the requisite marks in the entrance exam for PG Programs as per the Karnataka Examination Authority (KEA) or under GATE with an admission order from KEA are eligible for the admission to M.Tech Programs or through the entrance exams conducted by the University or R V College of Engineering.

For admission under the management quota: The candidates should have appeared and qualified in the Entrance Exam conducted by KEA or qualified under GATE or appeared and qualified through the entrance examination conducted by the University or R V College of Engineering.

For more details log on to

- (i) KEA website: <http://kea.kar.nic.in>
- (ii) VTU website : <http://www.vtu.ac.in>

### 2.2 PROGRAM DURATION

- a) The regular duration of an academic program in M.Tech is **TWO (2) Years**
- b) The maximum duration to complete the full time M.Tech program is **FOUR (4) years**.

### 2.3 NOMENCLATURE OF M.Tech PROGRAMMES

Sl. No.	Program	Nomenclature
1	Master of Computer Applications	MCA
2	M.Tech in Product Design & Manufacturing	MPD
3	M.Tech in Digital Communication	MDC
4	M.Tech in Computer Science & Engineering	MCE
5	M.Tech in Computer Integrated Manufacturing	MCM
6	M.Tech in VLSI Design & Embedded Systems	MVE
7	M.Tech in Computer Network Engineering	MCN
8	M.Tech in Machine Design	MMD
9	M.Tech in Communication Systems	MCS
10	M.Tech in Power Electronics	MPE
11	M.Tech in Bio-medical Signal Processing & Instrumentation	MBS
12	M.Tech in Structural Engineering	MST
Sl. No.	Program	Nomenclature
13	M.Tech in Software Engineering	MSE

14	M.Tech in Information Technology	MIT
15	M. Tech in Highway Technology	MHT
16	M. Tech in Biotechnology	MBT
17	M.Tech. in RF & Microwave	MRM

### 3.0 ACADEMIC PLANNING

#### 3.1 ACADEMIC PLAN FOR M.TECH PROGRAM

- The curriculum is designed as per OBE and shall include General Engineering courses, Core Professional Engineering, Professional Electives and Project works.
- The percentage distribution / coverage of courses is as per the guidelines given by VTU / UGC / AICTE and Ministry of HRD, New Delhi.

Category	Min. Credits	Max Credits	Credits to be Earned as per 2018 Scheme
Core (incl.soft core)	15	25	22 / 27
Elective	25	35	28 / 27
Project Work	30	45	30 / 27
Internship/industrial -Field work	3	5	5
Seminar	3	5	3 / 2
<b>TOTAL</b>			<b>88</b>

- Board of Studies (**BoS**) of each department are responsible for planning of Scheme and Syllabus of the respective programs. The structure of the scheme and common courses are reviewed in the Joint BoS.
- Finalized scheme and syllabus are presented to Academic Council for final approval
- There shall be an equal emphasis on theory, practical / laboratory and workshops.
- PG students are exposed to research through assignments, projects and experiential learning.
- Additions and deletions of any particular course have to be recommended by respective BoS and approved by the Academic Council of the Institution. Such additions and deletions will be prospective.
- Minor project and major projects are part of the curricula.
- Internship / Industrial Training / Field Work are part of the curricula.

#### 3.1.1 CALENDAR OF EVENTS

**College Timings: Monday to Friday: 9.00 AM to 4.45 PM**

**Saturday: 9.00 AM to 1.45 PM**

**If special / remedial classes are arranged by the departments students will have to mandatorily stay beyond working hours/ time table including Saturdays. These classes will be counted for attendance.**

PG Calendar of Events enclosed as Annexure-1

### 3.2 SEMESTER REGISTRATION / DROPPING/ WITHDRAWAL

- (a) **Every student has to register in person** at the beginning of every semester as per the notification issued by the institution from time to time. **Such of the students who do not register within one week from the date of commencement of the semester, shall not be eligible to take up that particular semester. Parents are advised to note.**
- (b) In case of any delay to register due to any exigency, the **parent and student should intimate the Principal, RVCE, in advance, indicating the reason for the delay** in registering.
- (c) A student may be barred from registering for a semester for specific reasons like disciplinary reasons, non-payment of fees etc.
- (d) **Withdrawal from Courses:** A student may opt to withdraw from a course on or before the date specified in the calendar of events. Such student who wants to utilize this facility has to submit an application through the HoD to Dean (Academics) & Dean (PG Studies), in consultation with the counselor and HoD of the respective department. Such candidate should have fulfilled the attendance requirement for the course(s) subject to maintaining the minimum requirement of 16 (Sixteen) credits for the semester. The withdrawn course(s) are recorded in the Grade Card as 'W' grade. Such withdrawn courses can be registered either during a summer semester or during a fresh even or odd semester but cannot be registered during student's regular semester. **The withdrawal facilities are available ONLY for regular semester(s) and not for summer semester.**
- (e) **Dropping of Courses:** A student can drop a course under the guidance of the counselor if the counselor and parent feel that the student cannot cope up with all the courses. This dropping of course shall be intimated to the **Dean (Academics) & Dean (PG Studies)** through the HoD, before the dropping date as announced in the calendar of events. However the total credits should not fall short of 16 (sixteen) credits which are the minimum number of credits to be registered per semester. The dropped courses are not recorded in the Grade Card. Such dropped courses can be registered in fresh even or odd semester but cannot be registered during summer semester.

### 3.3 ATTENDANCE REQUIREMENT

- a) Each semester is considered as a unit and the candidate has to put in a minimum attendance of 85% in each course with a provision for condonation of 10% of the attendance by the Principal for reasons such as (i) serious medical condition or (ii) representing the Institute / University /State /Nation in sports, cultural, technical or academic activity with the permission of the college authorities. Even in such cases, a minimum of 75% attendance is absolutely mandatory. Documents have to be submitted and prior permission must be obtained from the Principal before attending the event. The students who do not satisfy this condition will be declared as **NSAR (Not Satisfied Attendance Requirement)**.
- b) The basis for the calculation of the attendance shall be the period prescribed by the Institution through its calendar of events and not the date of registration to the semester.
- c) The students will be informed about the attendance position periodically by the college notifying the status on the notice board before each CIE and during the multiple counseling sessions. **Student declared as NSAR is not eligible to take up SEE in that particular course.**
- d) If a student does not fulfill the minimum attendance requirements in a course, the student is not permitted to attend the Semester End Examination in that particular course.
- e) **Temporary Break of Study from the Program:**
  - 1) A candidate is normally not permitted to break the study. However, if a candidate intends to temporarily discontinue the program for valid reasons (such as accident or hospitalization due to prolonged ill health) and wants to rejoin the program later in respective semester of the subsequent academic year, he / she shall apply 15 days before the commencement of the semester to the Principal through the Head of the Department stating the reasons. Such

temporary discontinuation and subsequent readmission are subject to the approval from the University. Even in such cases the maximum duration of study prescribed by the University will be applicable – refer Sec.(2.2)

- 2) The institute shall examine such an application and if it finds the case to be genuine, it may permit the student to temporarily withdraw from the program. Such permission is accorded only to those who do not have any outstanding dues / demand at the college / University level including tuition fees, any other fees library materials etc.
- 3) The candidate has to rejoin the semester after the break from the commencement of the respective semester as and when it is offered.
- 4) The total period for completion of the programme is reckoned from the commencement of the semester to which the candidate was first admitted and shall not exceed the maximum period as specified in 2.2. The maximum period includes the break period.
- 5) If any candidate is detained for any reason, the period of detention shall not be considered as 'Break of Study'.

### 3.4 SEMESTER SCHEME

Each academic year is divided into two main semesters and one summer semester with their calendar, duration and academic activities fixed in advance by the College and as approved by the AC. The plan for implementing the Semester Scheme in the College is given in the Table 3.5.

#### Breakup of Academic Year into Semesters

<b>Number of semesters</b>	There are two Main semesters and one Summer semester: <b>NOTE:</b> Summer semester is provided to assist failed students. The student has to pay a special fee prescribed by the college to register for a course in the summer semester. The summer semester is provided to help the student in not losing an academic year. It is optional for a student to make use of summer semester. Summer semester is a special semester and the student cannot demand specific courses as a matter of right.
<b>Internship/Industrial Training/ Field Work during Summer Break</b>	Students need to take up summer internship/ practical training / industrial training/ field work for a minimum period of 6 weeks as part of the academic curriculum. For regular students internship/ practical training / industrial training/ field work is between 2 <sup>nd</sup> and 3 <sup>rd</sup> Semester.
<b>Semester Duration</b>	Main Semester is for 19 Weeks each including the exams Summer Semester is for 8 Weeks including the exams
<b>Academic Activities (Break up in weeks)</b>	<b>(a) Regular Semester:</b> Registration for course- Three days Course work - Sixteen weeks from the starting date of registration Examinations- Three weeks <b>TOTAL : 19 weeks each</b> Declaration of Results- One week <b>(b) Summer Semester (only for students with NSSR/ NSAR/ F/ W grades):</b> Registration of courses- Three days Course work – Six weeks from the date of starting of registration Examination- Two weeks <b>TOTAL: 8 weeks.</b> Declaration of Results – within one week

<b>Examinations</b>	Continuous Internal Evaluation (CIE) and Semester End Examination (SEE), both will have equal weightage in the student's performance evaluation in Course Work / Laboratory Work and other activities.  (NOTE: The CIE tests would be conducted throughout a semester on dates announced in advance as per the calendar of events and its results made known to the students from time to time)
<b>Academic Calendar</b>	The calendar of events for each academic year will be announced for odd semester, even semester and subsequent summer semester before the beginning of each academic year.

### 3.5 CREDIT SYSTEM

The **Choice Based Credit System (CBCS)** is followed for all the M.Tech Programs of the college

- Theory courses, conducted for 1 hour/week during a semester shall be considered for earning one credit.
- Laboratory courses or tutorials, conducted for 2 hours/week during a semester shall be considered as one credit.

**Note:** The above figure shall be multiplied by a factor of 2 in the case of Summer Semester.

### 3.6 CREDIT STRUCTURE:

Based on the above, distribution of credits is shown in the Table below

CREDIT STRUCTURE

Lecture (hrs/wk /sem)	Tutorials (hrs/wk /sem)	Lab. Work (hrs/wk /sem)	Credits (L:T:P)*	Credits (Total)
4	0	0	4:0:0	4
3	2	0	3:1:0	4
3	2	2	3:1:1	5
0	0	10	0:0:5	5
0	0	4	0:0:2	2
4	2	0	4:1:0	5

### 3.7 CREDITS REQUIREMENT FOR M.TECH PROGRAMMES.

The total number of credits required to be earned by students to qualify for M.Tech Degree programs are given in the Table.

TOTAL NUMBER OF CREDITS REQUIRED TO BE EARNED BY STUDENTS

Program	Normal Duration Years (semesters)	Total No. of credits to be Earned
M.Tech Degree	TWO (2) years Or FOUR semesters	<b>88</b>

## 4.0 EVALUATION SYSTEM

### 4.1 ACHIEVEMENT TESTING

#### 4.1.1 Continuous Internal Evaluation (CIE),

CIE will be conducted by the course teacher all through the semester. The evaluation process has three parts, consisting of quiz and descriptive / analytical type assessment spread throughout the semester, tests, weekly/fortnightly, assignments, problem solving, group discussions and seminars depending on the course. The tests have to be written in the official booklet. Evaluation and marks obtained after each test, will be shown to the students. After ascertaining that he/she has obtained the marks as per student's performance, the student shall affix his/her signature in the book after each test.

#### 4.1.2 Scheme of Continuous Internal Evaluation of Theory Courses:

CIE is executed by way of quizzes (Q), tests (T) and assignments. A minimum of two quizzes are conducted and each quiz is evaluated for 10 marks adding up to 20 marks. Faculty may adopt innovative methods for conducting quizzes effectively. The three tests are conducted for 50 marks each and the sum of the marks scored from three tests is reduced to 50 marks. The marks component for each assignment is 15 marks. A minimum of two assignments are given with a combination of two components among 1) solving innovative problems 2) seminar/new developments in the related course 3) Laboratory/field work 4) Minor project.

**Total CIE is 20+50+30=100 Marks.**

One compensatory test / quiz may be given to such students, who **have missed the quiz or test or both** for genuine reason and have taken **prior permission** from the concerned course faculty, counselor and Head of the Department in writing.

#### 4.1.3 Scheme of Continuous Internal Evaluation of Courses with Laboratory:

**Total marks: 100+50=150**

**Theory – 100 Marks**

CIE is executed by way of quizzes (Q), Tests (T) and Assignments (A). A minimum of two quizzes are conducted and each quiz is evaluated for 10 marks adding up to 20 marks. Faculty may adopt innovative methods for conducting quizzes effectively. The three tests are conducted for 50 marks each and the sum of the marks scored from three tests is reduced to 50 marks. The marks component for each assignment is 15 marks. A minimum of two assignments are given with a combination of two components among 1) solving innovative problems 2) seminar/new developments in the related course 3) Laboratory/field work 4) Minor Project.

Total CIE for theory is 20+50+30=100 Marks.

One compensatory test / quiz may be given to such students, who **have missed the quiz or test or both** for genuine reason and have taken **prior permission** from the concerned course faculty, counselor and Head of the Department in writing.

#### **Laboratory- 50 Marks**

The Laboratory session is held every week as per the time table and the performance of the student is evaluated in every session. The average of marks over number of weeks is considered for 30 marks. At the end of the semester a test is conducted for 10 marks. The students are encouraged to implement additional innovative experiments in the lab and are rewarded for 10 marks. Total marks for the laboratory is 50.

**Important: The student has to score minimum 50 % marks in CIE to qualify to take the SEE in that course.**

The marks obtained by the student in CIE will be displayed in the respective departments and the students are expected to affix their signatures during a prescribed period as a confirmation of their

verification of the marks. In case any student fails to verify and affix the signature the allotted marks will be assumed to be accepted by the student. The number of credits is clearly defined in the scheme of study. All the M.Tech students are required to compulsorily register for all the courses prescribed for each semester.

a) **Semester End Examination (SEE)**

The scheme of SEE is given in Table below.

<b>SEMESTER END EVALUATION (SEE)</b>				
<b>Theory</b>		<b>Laboratory</b>		<b>Total</b>
The question paper will be for 100 marks and shall consist of TEN questions from FIVE units with 20 marks each. Out of the TEN questions, students have to answer FIVE questions selecting ONE full question from each unit.	<b>100</b>	Experiment Conduction with proper results	<b>40</b>	<b>150</b>
		Viva	<b>10</b>	
<b>Total</b>	<b>100</b>	<b>Total</b>	<b>50</b>	

In case of theory examination, the answer script will be subjected to "Double Evaluation" (generally ONE internal and ONE external examiner)

- (i) If the difference between the marks awarded by the two evaluators are **less than 15%** of the maximum marks, the marks awarded to the candidate shall be the average of the two marks.
- (ii) If the difference in marks between the two evaluators is **more than 15 %** it will be evaluated by a 3<sup>rd</sup> evaluator and the average of the two nearest marks will be considered. However, if one of the three marks falls exactly midway between the other two, then the higher marks shall be taken for averaging.

In case of laboratory examination, evaluation will be done jointly by an internal and an external examiner. There is no provision for reevaluation in case of practical exams.

Achievement testing will be done in two parts, consisting of CIE & SEE. **CIE and SEE will have equal (50:50) weightage in the Scheme of Evaluation.**

c) **INTERNSHIP / INDUSTRIAL TRAINING**

The student shall undergo internship / industrial training for a minimum period of 6 weeks. The student shall make a midterm presentation after 3 weeks of internship / industrial training to a panel comprising guide, one senior faculty and the head of the department. A viva-voce will be conducted at the end of 6 weeks by the internal internship guide and one external examiner, preferably from the industry where the student has carried out the internship / industrial training. The student has to prepare a mid-term report and a final report after 6 weeks. Both the evaluation will carry equal weightage and the assessment will be as per the rubrics specified for internship / industrial training.

d) **TECHNICAL SEMINAR / PROFESSIONAL SKILL DEVELOPMENT**

All the students have to make two presentations during the course of the semester on the topic chosen from the relevant field. The internal assessment marks for the seminar shall be awarded by a panel comprising of a subject expert in the department, senior faculty and head of the department. The assessment will be as per the rubrics specified for seminar, technical seminar and professional skill development.

**e) MINOR & MAJOR PROJECT WORK**

- 1) Before uploading the dissertation report of the major project, the guide shall ensure that the plagiarism check is done and obtain the certificate. The percentage of plagiarism must be < 20%. In case, the percentage of plagiarism is > 20% the guide shall reject the report and inform the candidate to make necessary corrections and resubmit the same.
- 2) The candidate shall submit a soft copy of the major project work in the form of a CD which should contain the entire work in both Word and PDF format. Guides after checking the report for completeness as per the format and content, shall upload the report along with the plagiarism report (<20%). The guide shall also choose and submit a panel of 3 external subject experts for evaluation of the dissertation in a sealed cover to CoE.
- 3) The guide and the examiners shall independently evaluate and submit the marks in the prescribed format to the controller of examination. The average of the marks awarded by the two examiners shall be the final evaluation marks for the thesis.(A)
- 4) If the thesis is rejected by the first external examiner the report shall be sent to a second examiner appointed by the panel. If the second examiner also does not approve the dissertation report, the candidate has to carry out the project work once again and shall submit the dissertation report within 8 weeks, in such cases of rejection the candidate shall redo the entire submission of dissertation in softcopy after plagiarism check.
- 5) The candidate may also choose another topic of dissertation under a new guide if necessary, in such an event the dissertation report shall be submitted within 4 years from the date of admission to the program.
- 6) If the dissertation report is approved and evaluated by both the examiners and the candidate secures minimum passing marks in the evaluation the controller of examination shall inform both the examiners to conduct the viva-voce exam and to submit the viva-voce marks.
- 7) The internal examiner as per the direction of the CoE shall arrive at a convenient date to conduct the viva-voce examination of the candidate in consultation with the external examiner with information to the controller of examination.
- 8) The weightage for the evaluation of the project and the performance at the viva-voce shall be as per the scheme specified in the syllabus book. The marks awarded jointly by the examiners (B) after the viva-voce examination shall be sent to controller of examination immediately in a sealed cover.
- 9) The date of submission of dissertation report may be extended to a maximum of 4 academic year from the date of admission to the first semester M.Tech program.
- 10) Final SEE assessment:  $SEE=(A+B)/2$
- 11) Final Grading based on CIE+SEE

**4.2 GRADING SYSTEM**

**ABSOLUTE GRADING SYSTEM ON 10 POINT SCALE IS FOLLOWED IN THE EVALUATION OF STUDENT'S PERFORMANCE IN A COURSE.**

- a) Letter grade is basically a qualitative measure (an alphabet/letter) giving the performance of a student, such as, **Outstanding (S), Excellent (A), Good (B), Above Average (C), Average (D), and Fail (F)**, based on the score. This is arrived at after the student's performance in a course,

which includes **both CIE and SEE**. The range of marks for each letter grade shall be as given in the following Table.

- b) Depending on the letter grades assigned, a student earns certain grade points. In the 10 point grading system, that is followed, the grade points earned for different letter grades are given in the table.

GRADING SYSTEM

Level	Out standing	Excellent	Good	Above Average	Average	Fail
Score (Marks) Range %	> = 90	> =80 < 90	> =70 < 80	> = 60 < 70	> = 50 < 60	< 50
Grade	S	A	B	C	D	F
Grade Points	10	9	8	7	6	0

- c) Grade point averages SGPA and CGPA: The grade points earned for each course are used further for calculating semester grade point average (SGPA) and the cumulative grade point average (CGPA), both of which being important performance indices of the student.

- (i) **SGPA** (Semester Grade Point Average) is the performance index of a student in a semester and is calculated as follows. :

$$SGPA = \frac{[\sum (\text{Course Credits}) \times (\text{Grade Point/s}) \text{ for all the c registered by the student, excluding transitional grades, in that semester.}]}{[\sum (\text{Course Credits}) \text{ for all the courses registered by the student excluding transitional grades, in that semester.}]}$$

- (ii) **CGPA** (Cumulative Grade Point Average) is the performance index of a student of all the previous semesters and is calculated as follows:

$$CGPA = \frac{[\sum (\text{Course Credits}) \times (\text{Grade Point/s}) \text{ for all the courses registered by the student excluding F \& Transitional grades until that semester.}]}{[\sum (\text{Course Credits}) \text{ for all the courses registered by the student excluding those with F \& Transitional grades until that semester.}]}$$

The SGPA and CGPA respectively facilitate the declaration of academic performance of a student at the end of the semester and the end of successive semesters.)

- d) **Transitional Grades:** The transitional grades, such as 'I', 'W' and 'X' shall be awarded to a student in the following cases.

**Grade 'I':** Awarded to a student having satisfactory attendance at classes and meeting the passing standard at CIE in a course, but remained absent from SEE for valid and convincing reasons acceptable to the college, like

- (i) Severe illness or accidents, which disable him/her from attending SEE.
- (ii) A calamity in the family at the time of SEE, which required the student to be away from the college. The candidate or the parents should inform the incident to the Chief Superintendent of Examination before the commencement of particular examination. The documents related to the incident shall be submitted to the Controller of Examinations with in a week's time from the date of that particular examination or last day of that particular even/ odd semester examination, whichever is earlier.
- (iii) Any other exigency which the Grading Advisory Committee thinks requires a consideration, like a student representing the institution / state / university / nation in university / state / national / international level events / competition. In such case, the student is required to take prior permission from Head of the institution with relevant documents. The student should also submit the proof of having attended the event / competition immediately after returning, without which the transitional grade will not be considered. IF the student does not submit the relevant documents that supports claim of the candidate to abstain from the examination if not submitted within the prescribed period, such applications are liable to rejected for I grade.

The grading advisory committee's decision regarding the awarding the I grade is final.

**Grade 'W':** Awarded to a student having satisfactory attendance at classes, but withdrawing from that course before the prescribed date in a semester under faculty advice.

**Grade 'X':** Awarded to a student having attendance ( $\geq 85\%$ ) and CIE rating ( $\geq 90\%$ ) in a course, but SEE performance observed to be 'F', which could result in an overall F grade in the course.

- b) **Earning Credit:** A Student would be considered to have completed a course successfully and earned the credits, if he/she secures a letter grade other than NSAR,NSSR,NE I, W, X or F in that course. Grade F in any course implies failure in that course.

### 4.3 PASSING STANDARDS

- a) The Standard of passing in each course is given in the following table

PASSING STANDARDS

	Cumulative Internal Evaluation (CIE)		Semester End Evaluation (SEE)		CIE & SEE
Theory without Practicals	$\geq 50\%$		$\geq 40\%$		$\geq 50\%$
Theory with Practicals	Theory	$\geq 40\%$	Theory	$\geq 40\%$	
	Practice	$\geq 50\%$	Practice	$\geq 50\%$	
	TOTAL	$\geq 50\%$	TOTAL	$\geq 50\%$	
Practice	$\geq 50\%$		$\geq 50\%$		

#### b) Successive Failures

If a student fails (Grade F / Absent) to pass a course and does not earn the required credits prescribed for the course even after **five (5) attempts**, the admission of the student to the program will be terminated and the student will be informed to leave the institution. However, such a student may

seek readmission to the program at the college as a fresh candidate to the first year, but not exceeding four years from the date of first admission.

c) **A regular student admitted to M.Tech program shall complete the course within 4 years, from the date of admission.**

d) **Summer Semester:** The summer semester is provided to facilitate or as a recourse to such students who have absented themselves from attending CIE or SEE without valid reasons;

OR

who have been unsuccessful in attaining the minimum passing standards for SEE (Grade F);

OR

who have been detained for want of Sessional marks (CIE < 50% ) and declared NSSR;

OR

who have been detained for want of attendance (NSAR)

OR

who have withdrawn from a course (Grade W).

- ◆ Such students shall be required to re-register for the course(s) and go through CIE and SEE again and obtain a grade equal to or better than D in each case. The re-registration shall be possible when the particular course is offered again either in a Summer Semester or Main (odd/even semester for year back students only) semester.
- ◆ Course load will be specified for Fast track semester, for smooth operation of the program. For this purpose, students are requested to contact Dean (Academics), HoD, Dean (PG Studies) and Associate Deans of their respective program for any assistance and clarification. A student can register for a maximum of three courses in the fast track semester. However, the student cannot register for more than two courses having laboratory component.
- ◆ Students, who have applied for Revaluation or Makeup, can also register for fast track semester; however, if they clear the courses in revaluation or makeup, the registration amount for fast track semester will be refunded.
- ◆ A student can register for a maximum of three courses in the fast track semester. The registered course can be laboratory and theory courses and the total credits put together should not exceed 16.

***All the students must mandatorily register for fast track semester and compulsorily attend the fast track classes, for all the courses registered and re-earn the CIE***

e) **Make-Up Examination:**

A make-up examination facility would be available to students who may have missed to attend the SEE of one or more course in a semester for valid reasons (4.2d) and given 'I' grade. Students having 'X' grade shall also be eligible to take advantage of this facility. The make-up examination would be held as per dates notified by the Controller of Examination. There shall be no Make-Up examination for summer semester. In case where the student fails to take make-up examination the actual grade obtained in the regular examination will be considered as the final grade in the course (i.e 'F' grade in case of 'X' grade and 'Ab' in case of 'I' grade). In case of courses involving laboratory component, the **student should attend both theory and laboratory exams** during the make-up examinations.

#### 4.4 SCHEDULE OF EXAMINATIONS

The Controller of Examinations will announce the Time Table for the SEE, Makeup and Summer Semester. Various examinations in an academic year conducted in the order are:

1. SEE at the end of odd semester
2. Make-up examination after odd semester to students as per 4.3(e)

3. SEE at the end of even semester
4. Make-up examination after even semester to students as per 4.3(e)
5. Summer Semester at the end of even semester SEE.

#### **4.5 VERTICAL PROGRESSION (PROMOTION TO NEXT ACADEMIC YEAR)**

- (a) A student cannot have more than **TWO** backlog courses as not passed (F, AB, NSSR, NSAR, NE, W and Drop) at the end of each academic year for promotion to the next higher academic year. Such students who do not satisfy this minimum requirement in an academic year shall improve by registering for the courses in which they have failed (Grade F) / Declared NSAR / Declared NSSR / withdrawn (Grade W) during summer semester under the guidance of Dean (Academic) of the institution. The Dean (Academic) may constitute an advisory committee for such registrations.
- (b) If a student fails to satisfy the minimum requirements, stated in 4.5(a), even after the summer semester examinations, he/she cannot register for the next higher academic year. However, such students can register for the failed courses to a **maximum of THREE courses (maximum of two courses with laboratory)** (odd semester courses during the regular odd semester and even semester courses during the regular even semester or during the summer semester, if offered) to secure a grade greater than D and thus satisfy the minimum requirement for promotion to the next higher academic year. All the requirements specified in 3.3 will apply to these students.
- (c) Odd semester to even semester mobility does not depend upon the preceding odd semester examination results.

#### **4.6 REVALUATION / PHOTOCOPY**

The Controller of Examinations (CoE) will announce the schedule for revaluation / photocopy after the announcement of SEE results. **It will be the responsibility of the student to see the Notice Boards to avail this facility in time, failing which the student will not be eligible to avail this facility.**

The students can apply for revaluation of answer scripts, issue of photo copy of answer scripts after the announcement of results of the two main semesters. However, in the case theory courses associated with a laboratory, students can apply for revaluation of the answer script of the theory paper only. The student who have applied for revaluation and obtains a better grade will be refunded 50% of the revaluation fees.

#### **4.7 MALPRACTICE**

A student who is booked under malpractice will be prevented from writing that particular examination from the instant he/she is booked for malpractice (**Possession of manuscripts/printed material; Possession and /or use of mobile phones or any other electronic gadgets, revealing identity, destroying evidence, impersonation, misbehavior, misconduct or any other malpractice related to examination** ). The candidate shall be required to appear before the malpractice investigating committee for enquiry. The day, date and time will be specified by the Chief Superintendent / Controller of Examination. If found guilty, depending on the severity of the case, the committee will impose an appropriate punishment as per the Examination Regulations and Guidelines published from time to time. In such cases, the said course will be awarded with a credit of '0'(Zero) with grade NE, for the calculation of SGPA.

#### **4.8 REJECTION OF RESULTS**

A student is permitted to reject the results of an entire semester (including CIE) only once during the program duration. The candidate, who desires to reject the performance, shall reject performance in all the courses of the semester, irrespective of whether he/she has passed or failed in the courses. Such a candidate is allowed to take re-admission for the relevant semester. Such a student will have to represent to the Principal in writing with the concurrence of the parent. If a student is found guilty of malpractice in a semester he / she cannot reject the result of that semester. Rejection of result is not permitted to the students who have grade "NE" in the respective semester until the compliance of penalty and punishment is cleared.

#### 4.9 GRADE CARDS

Each student will be issued a grade card at the end of odd and even semester as well as after the summer semester examinations. This will have a list of all the courses registered by the student for the examination together with their credits, the letter grades and grade points awarded.

#### 4.10 GRADUATION CEREMONY

- (a) The college will have its own annual Graduation ceremony for the award of Provisional Degrees to students completing the prescribed academic requirements in each course of study, in consultation with the University, as per the provisions in the Statutes.
- (b) Prizes, Medals and Ranks to the meritorious graduating students will also be issued during the graduation ceremony.

#### (c) Award of Class at Degree Level

Master Degree in Technology shall be awarded to the candidates who have passed all the stipulated courses from 1<sup>st</sup> to 4<sup>th</sup> semesters. Declaration of the class for the degree shall be based on the performance of the candidate from 1st to 4th Semester taken together for students.

- 1) A candidate will be declared to have obtained **First Class with Distinction** if the student has passed in all courses from 1 to 4<sup>th</sup> sem. and secured not less than **7.75 CGPA**.
- 2) A candidate who has passed in all the courses of 1<sup>st</sup> to 4<sup>th</sup> semesters securing not less than **CGPA 6.75 but less than CGPA 7.75** shall be declared to be eligible for the award of M.Tech Degree in **First Class**.
- 3) A Candidate who has passed in all the courses of 1<sup>st</sup> to 4<sup>th</sup> semesters securing a minimum **CGPA of 6.00 but less than 6.75** shall be declared to be eligible for the award of M.Tech degree in **Second Class**.

#### (d) Award of Ranks

- 1) Maximum of THREE ranks will be awarded in each M.Tech program provided the minimum number of students eligible to appear for the fourth semester SEE is FIVE. The rank shall be declared only for full time students who have passed all courses of every semester in the first attempt and on the basis of CGPA obtained.
- 2) Student appearing for Makeup /Summer Semester and any subsequent examinations in any credit or audit course/courses during the program shall not be eligible for the award of ranks. The candidates who do not submit the dissertation report within the stipulated period are not eligible for consideration of rank.
- 3) Only students who complete the program in two consecutive years for M.Tech (regular students), are eligible for consideration for the award of ranks.
- 4) For the award of rank for M.Tech students, CGPA shall be calculated from 1<sup>st</sup> to 4<sup>th</sup> semester
- 5) The basis for declaring the rank shall be the CGPA in the descending order of merit from the highest CGPA.
- 6) CGPA shall be calculated to the second decimal position.
- 7) Students with CGPA of  $\geq 6.75$  (Equivalent to First Class) or above are ONLY eligible for consideration for rank.
- 8) If two students get the same CGPA, the tie shall be resolved by considering the number of times a student has obtained higher SGPA, if it is not resolved even at this stage, the number of times student has obtained higher grades sequentially from S to D till the tie is resolved. If the tie is still unresolved, the students with similar CGPA will be awarded the same rank.

## 5.0 VALUE ADDED COURSES & SERVICES

The institution will conduct proficiency courses from time to time depending on industry and skill requirements. A schedule of such courses shall be announced well in advance. Such courses shall be mandatory or otherwise depending on the importance of such courses. Separate certificates shall be awarded for such courses.

### 5.1 Finishing School

- A student after getting placed may be required to undergo special training as prescribed by the employers as per the calendar of events that shall be announced from time to time.
- A student who is not placed but wants to enhance his skills for employability can also opt for finishing school.
- The curricula, fees (if any) and the courses of finishing school shall be announced by the Department of Placement and Training from time to time.

### 5.2 Professional Societies

Every student is advised to become a member of at least one of the Professional Societies which are active in the institution. They are required to actively participate in the Professional Society activities which will enhance their overall skills, organizational capabilities and leadership qualities apart from opportunity to network with experts from industries and R&D organizations.

- IEEE Student Branch with three societies
  - IEEE Communication Society
  - IEEE Power & Energy Society
  - IEEE Computer Society
- International Society of Automation (ISA)
- Computer Society of India (CSI)
- Information Systems Audit and Control Association (ISACA)
- Indian Institute of Chemical Engineers
- Indian Concrete Institute (ICI)
- American Society for Civil Engineers (ASCE)
- Indian Institution of Industrial Engineers
- Fluid Power Society of India (FPSI)
- Indian Society for Heating, Refrigeration and Air Conditioning Engineers (ISHRAE)
- Indian Society for Technical Education (ISTE)

### 5.3 Scholarship Facility

Scholarships are available to students on merit cum means basis from the following Organizations

**Table 5.3 Scholarship facility**

SL No.	Category	Name of Scholarship
1	SC/ST	SC/ST Scholarship
2	SC/ST	SC/ST Fee Concession (free Ship)
3	Low income	KEA 2010 Subsidy
4	Low income	MHRD (PU Board ) (DBT)
5	OBC	Jharkhand State Tribal Co-op Development Corp
6	OBC	BCM (OBC) Scholarship
7	OBC	Bihar/ Samastipur OBC Scholarship
8	Minority	Karnataka Minorities Development Corp., Loan
9	Minority	K K Education /Alhaj Attar/ Mamoor Welfare Trust
10	Corporate	Intel Foundation
11	Corporate	M/s Meritor CVS India (p) Ltd., (To Mech. Dept.,)
12	Corporate	Cognizant Foundation (placement)

13	Corporate	Sitaram Jindal Scholarship
14	Corporate	NTT Data Inc Scholarship America
15	Corporate	ABB Scholarship (Means cum overall merit)
16	Corporate	Schneider Electricals
17	Government	Dept of Sainik Welfare For Ex Service Children
18	Government	BBMP Mahanagara Palike/ Town/City Municipal
19	NGO	M/s Raghuvendra Singh
20	Government	Merit Scholarship DTE Assam Gauwhati
21	Government	N H F D C Faridabad
22	Government	Merit Scholarship DTE Karnataka
23	Government	Merit-Cum-Means (DBT)
24	Alumni	Alumni Association RVCE
25	Government	Karnataka Employees Welfare Association
26	Government	Nalanda /Samastipur Jilla Kalyan
27	Alumni	Alumni 1979 batch of E&C
28	NGO	Arunodaya scholarship for TE & ECE students (Means)
29	NGO	Sarthaka Trust

## 5.4 LIBRARY & INFORMATION CENTRE

### 5.4.1 Networking & Digital Library Services:

Library is a consortia member of VTU through which college has access to IEEE IEL-Online Database, ASCE e-Journals, ASME e-Journals, Taylor & Francis e-Journals, ProQuest e-journals (Engineering, management and Architecture), Knimbus Digital Library and Remote Access Solution, Kopykitab Virtual-Library, NetAnalytiks Sentential (Grammar/writing tool). Institutional Subscription - Karvin Skill Soft E - Books, E-Books of Cambridge University Press, Gartner Research Database. These resources can be accessed from Library and within the campus through any internet browser <https://rvce.edu.in/library>, library is also member of DELNET and is also making use of inter library loan facility provided by the DELNET, for borrowing non availability of books, manuscripts and journal papers in the library.

**Web OPAC:** The availability of books in main library can be access through any internet browser with the link provided <http://112.133.207.137/opac>.

#### Online access

IP enabled online access facilities for e-books and journals have been provided for students and faculties throughout the campus.

### 5.4.2 Central Library:

Number of titles: 47837  
Number of volumes: 140995

### 5.4.3 Policy for issue of Books and other library resources:

- Each user is provided with a Smart identity Card, Students should keep their Smart identity card safely, so that no one else misuses it. In case loss of identity card, duplicate will be issued only on payment of Rs.1000/-.
- Four books are issued for undergraduates and five for postgraduate students
- Two additional Books are issued for SC/ST students.
- Students are permitted to borrow CDs/ DVDs along with books.
- Reference books are made available for reading in library only.

- Books are issued for a period of two weeks, with one renewal for next two weeks.
- For late return of books, late fee of Rs.1.00 per day is collected.
- Reservation policy is provided.
- In case of a student is leaving the institution on long leave, completed course he/she should obtain a “**No due Clearance**” from the library by returning all the documents borrowed and paying other dues, If any.

#### 5.4.4 Working Hours of Library

<b>Monday to Friday:</b>	<b>9.00 AM to 09.00 PM</b>
<b>Saturday:</b>	<b>9.00 AM to 04:30 PM</b>
<b>Sunday:</b>	<b>9:00 AM to 01.30 PM</b>

#### 5.4.5 Digital Library Facility

The internet and e-resources accessibility is available at digital library, is open to all students from 9:00 am to 4:30 pm. The students are required to follow the instructions displayed at the library and digital library strictly in order to avoid withdrawal of these facilities for such students who violate any of the Rules.

#### 5.5 Placement & Training

The Placement & Training Department is headed by a Dean (P & T) The main thrust of the Placement and training Department is in the following areas: Training of the students in interview skills, personal grooming, etc. Arranging industrial visits and other related activities. In-plant training Campus interview for graduating student by the industries organizing / arranging for summer placement and final placement for the students. Conducting Entrepreneurship development programmes.

#### PLACEMENT PERFORMANCE:

**Table: 5.5 Placement Performances**

<b>Particulars</b>	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>	<b>2019-20</b>
No. of offers made	1200	1207	1191	1452	876
No. of companies that visited RVCE	148	172	215	230	132

The Placement and training department conducts various **mandatory programmes** to enhance the personality, communication skills and employability of graduates. The students who do not satisfactory complete these trainings may be barred from attending placement drives.

#### 5.6 Transportation Facility (Annexure-2)

#### 5.7 Hostel Facility:

- There are four BOYS Hostels in the campus catering to over 1200 inmates.
- There are two Ladies Hostels located near to the college.
- All the hostels in the campus are equipped with modern kitchen equipment and solar heating facility.
- Hostels are provided with Internet & common TV Room, Indoor Games facilities.
  - **Boarders are a part and parcel of the hostel blocks and mess Administration**
  - **Boarders who excel in academics are given awards.**

*Boarders are encouraged to take part in NSS, NCC, Rotaract, Raag and Sports activities.*

Name of the Hostel	Used by	No. of Rooms	Total occupancy
<b>BOYS</b>			
Sir. M.Visveswaraya	Final Year and PG	254	254
Diamond Jubilee (DJ)	First year UG	83	249
Cauvery Annexe	First year UG	30	90
Cauvery (First Floor + Part Second Floor)	Second Year UG	132	264
Cauvery (Part Second Floor + Third Floor)	Third year UG	132	264
Cauvery ( Fourth Floor)	PG (M.Tech +MCA)	88	176

<b>GIRLS</b>			
Smt.Sushilamma & G K Srinivasaiah Memorial RVCE Girls Hostel	BE Students	66	132
Hiranya Hostel	1 <sup>st</sup> Year BE Students	33	90
Sri Venkatadri Nilaya- RVCE Girls Hostel	1 <sup>st</sup> Year BE / M.Tech / MCA Students	67	140

## 6.0. EXTRA CURRICULAR ACTIVITIES

The Cultural Activities in the college are conducted under the umbrella of 'CAT (Cultural Activity Team). The CAT has the following wings and activities:

### 6.1 CULTURAL ACTIVITY TEAMS (CAT)

The following are the activities which are very popular:

- CARV:** Circle of Acting in RV, a club to promote talent in dramatics. Students actively participate in its activities and have won many laurels.
- Music Club:** The music club provides ample opportunities to the students to display their talents in classical, light and modern / western styles of music (both in vocal and instruments and in dance).  
**AALAP, FOOT PRINTS**
- Sanskriti (The Arts Club):** A club to promote fine arts and crafts.
- Kannada Sangha:** It provides an opportunity to non-Karnataka students to get an exposure to Karnataka's heritage and language, through Kannada programmes.

### 6.2 National Service Scheme (NSS)

The NSS Unit of RVCE is very vibrant and organizes many activities to complement the needs of society. NSS- RVCE also educates various stake holders of the society, which not only helps the community, but also provides an opportunity for the students to understand the conditions prevalent in

the community and inculcate leadership qualities. NSS-RVCE regularly organizes Voluntary Blood Donation Camp, Voluntary Eye Pledge Camp, Orphanage visit, Eye screening Camps, Programs to promote National Integration and inculcate patriotism, Celebration of National Festivals and other events of national importance, Campaign regarding Drug abuse, Road Safety campaigns, Swachh Bharat initiatives etc.

### **6.3 National Cadet Corps (NCC)**

NCC under 1 KAR Signal Regiment has been started during 2008. A maximum of 100 students are eligible to join NCC on a first cum first served basis. The selection process is monitored by NCC authorities.. NCC classes / parades/ activities are organized during Saturday afternoons every week.

### **6.4 Sports Facilities**

The college encourages sports activities by providing excellent infrastructure and coaching facilities. The RVCE Cricket, Basketball, Badminton, Table Tennis and Chess teams have won many trophies and Championships. The College provides facilities for outdoor and indoor games. It has a modern Multi-Gym facility. Sports Persons are honored by the Management. RVCE believes sports activities keep the young minds fresh and active.

### **6.5 Departmental Associations**

Every Department has its own technical association which provides a forum for technical knowledge assimilation, organizational capabilities and leadership.

### **6.6 RAAG**

The youth club of RVCE conducts programs inculcating social awareness among students. It also conducts skill development and literacy programs.

### **6.7 ROTRACT Club**

This club is sponsored by the Rotary club of Bangalore South: it conducts a number of socio-cultural activities on and off the campus like blood donation camp, book and stationery distribution to needy, social awareness programs etc.

## **7.0 DISCIPLINARY MEASURES**

### **7.1 General Discipline**

- a) The students will not assist or even associate himself / herself in any activities which disturbs or is likely to disturb the peace and smooth working of the institution.
- b) The tuition fee shall be paid by the student before or at the time of admission / registration in every academic year.
- c) The student shall follow all the rules and regulations laid down by the college authorities/management from time to time.
- d) Students will have to maintain regular attendance. In case of attendance less than 75% the student will not be allowed for the ensuing CIE tests. Cumulatively he should have over 85% attendance as mentioned earlier, to be eligible for the semester end exams. In case of any absence, they should have to provide appropriate proof (medical certificate /letter from parent etc) and information, within three days of the absence to the department, the teacher concerned and the counselor.
- e) In case of planning to participate in any curricular (including paper presentation/competition), co-curricular and extra-curricular activities, prior permission has to be sought through proper channel. Further immediately within three days, on return from the event, should also provide the necessary proof to the counselor, the department, and the teacher concerned. Otherwise they will not be considered for any attendance benefit and the certificate will not be considered for credits for the paper on Innovation and Social Skills.

### RECOVERY OF LEGAL CHARGES AS APPLICABLE

The institution shall recover legal expenses incurred towards representing/defending such petition/suit before any court of law by making the Institution a party for their personal benefit (eg. Name change etc) and the parents /students shall abide by such reasonable condition and pay such amount which would be on actual.

### 7.2 ANTI RAGGING RULES

- a) As per the orders of the Supreme Court, Govt. of India, UGC, AICTE, Govt. of Karnataka, VTU, "Ragging" is a Criminal Offence leading to Non-Bailable Imprisonment. Students should not indulge in ragging or support ragging directly or indirectly in whatsoever manner. Severe action will be initiated against those indulging in ragging or supporting ragging.
- b) Ragging means causing, inducing, compelling or forcing a student, whether by way of a practical joke or otherwise, to do any act which detracts from human dignity or violates his/her person or exposes him/her to ridicule or to forbear from doing any lawful act, by intimidating, wrong fully confining or injuring him or by using criminal force on him / her or by holding out to him / her any threat of such intimidation, wrongful restraint, wrongful confinement, injury or the use of criminal force.
- c) Ragging Menace is a criminal offence and such of the students who involve in ragging will be rusticated from the college. Further, their University degree and conduct certificates will be embossed in BOLD letters with a statement that they indulged in ragging.
- d) Students indulging and/or encouraging ragging will not be eligible for placement services, hostel facility, air concession, railway concession, scholarships, passport/visa clearance etc.
- e) Photographs of students who have been involved in ragging shall be published in the notice board and also published in local newspapers.
- f) Enquiry committee's decision regarding the punishment is final.
- g) The offence of ragging is not only punishable under Section 116 of the Karnataka Education Act, 1983, but also under various provisions envisaged in Sections 109, 110, 111, 112, 113, 114, 115, 116,302,305,306, 339, 340, 341. 342, 343, 344, 346, 347, 354, 359, 368,448,451 and 506 of the Indian Penal Code (IPC).

### 7.3 DRESS CODE

- a) Dress code is defined based on the need for safety, security, functionality and comfort.
- b) Students are required to wear decent outfits.
  - i. Girls are expected to wear Chudidars / Salwars and Kameez with sleeves. Jeans with decent tops with sleeves are allowed. No tight fitting clothing is permitted.
  - ii. Boys are expected to wear shirts and trousers. No tight fitting clothing is permitted.
  - iii. Displaying offensive and obscene slogans and icons on clothing is prohibited.
- c) Uniforms for Labs is white coats and for workshops steel grey uniform.
- d) Students who do not adhere to the dress code are liable to be rusticated from the institution.

### 7.4 Mobile Phone

- a) The **possession & use** of Mobile Phones by the students in the academic areas inside the campus is banned. However, for the convenience of the students the mobile lockers have been provided in every department. **The parents/ guardians are advised not to call to the students on the mobile phones from 9.00 AM to 5.00 PM. In case of emergency, please contact respective HoD or Counselor.**
- b) If a student is found conversing on mobile or in possession of a mobile phone in any of the academic areas, the mobile will be confiscated and fine of Rs.5000/- will be levied for violating the rule.

### 7.5 SECURITY ISSUES

- a) Wearing of identity card in such a way that it is clearly visible, is a must inside the campus for security reasons. Entry in to the campus without valid Identity card is strictly prohibited. The faculty and the security personnel have the authority to check the ID cards
- b) Motorcyclists must remove their helmets before entering the College campus.
- c) College Security Staff have the right to ask individuals to identify themselves. Action shall be initiated against those persons who refuse to identify themselves.
- d) The students are advised to park their vehicle in the designated parking areas

### 7.6 SUPPORT SERVICES

- |                                |                              |
|--------------------------------|------------------------------|
| a) Photocopying Facilities     | e) Food Courts (Main & Mini) |
| b) Banking Facilities with ATM | f) Health Centre             |
| c) Post Office                 | g) Pharmacy                  |
| d) Stationery Stores           | h) Meditation Centre         |

### IMPORTANT NOTE:

*In case of violation of College / Hostel norms & rules and regulations, a student may be prevented from continuing in that semester and / or appearing for the semester examination depending on the outcome of the Disciplinary Action Committee report. Ignorance of any rule does not condone any misbehavior.*

**ANNEXURE-1**  
**(PG Calendar of Events)**  
**2019 & 2018 Batches**

## **ANNEXURE-2**

### **College Transportation Facility - Bus Routes**

# ANNEXURE-1

## POSTGRADUATE PROGRAM ACADEMIC CALENDAR FOR THE YEAR 2019-2020

### (2019-21 Batch) Autonomous Scheme

#### FIRST SEMESTER

Sl. No.	EVENT	DATES		REMARKS
		From	To	
1	Commencement of Classes	30 Sept 2019		
2	Registration for the odd semester	30 Sept 2019	05 Oct 2019	
3	Last Date for Dropping of Courses	21 Oct 2019		
4	Test-I (Compulsory)	04 Nov 2019	06 Nov 2019	Continuous Internal Evaluation (CIE-I)
6	Counseling & Student Performance Review-I	11 Nov 2019		
7	Faculty appraisal by students (Mid semester-review)	02 Dec 2019	06 Dec 2019	
8	Test-II (Compulsory)	12 Dec 2019	14 Dec 2019	Continuous Internal Evaluation (CIE-II)
9	Counseling & Student Performance Review-II	18 Dec 2019		
10	Last Date for Withdrawal of Courses	20 Dec 2019		
11	Test-III (Compulsory)	06 Jan 2020	08 Jan 2020	Continuous Internal Evaluation (CIE-III)
12	Faculty appraisal by students (End semester-review)	06 Jan 2020	08 Jan 2020	
13	Submission of Seminar/Assignment Reports	10 Jan 2020		
14	Course End Survey	10 Jan 2020		
15	Finalization of CIE	14 Jan 2020		
16	Semester End Examination (Practical)	21 Jan 2020	25 Jan 2020	
17	Semester End Examination (Theory)	27 Jan 2020	07 Feb 2020	
18	Declaration of Results	17 Feb 2020		
19	Applying for photo copies of answer script	18 Feb.2020	20 Feb 2020	
20	Issue of photo copies of answer script	22 Feb 2020		
21	Applying for Revaluation /Make-up exam	17 Feb 2020	25 Feb 2020	
22	Commencement of Make-up Examination	02 Mar 2020	07 Mar 2020	
23	Declaration of Results of Make-up/Revaluation exam	14 Mar 2020		

#### NOTE:

1. Departments may prepare their detailed calendar of events based on the above institutional calendar.
2. Quiz-I and Quiz-II are to be conducted before the commencement of Test-I and Test-II respectively.
3. Dates may change due to exigencies or unexpected holidays.

**POSTGRADUATE PROGRAM ACADEMIC CALENDAR FOR THE YEAR  
2019-2020  
(2019-21 Batch) Autonomous Scheme  
SECOND SEMESTER**

Sl. No.	EVENT	DATES		REMARKS
		From	To	
1	Commencement of Classes	17 Feb 2020		
2	Registration for the even semester	17 Feb 2020	19 Feb 2020	
3	Last Date for Dropping of Courses	09 Mar 2020		
4	Test-I (Compulsory)	16 Mar 2020	18 Mar 2020	Continuous Internal Evaluation (CIE-I)
6	Counseling & Student Performance Review-I	23 Mar 2020		
7	Faculty appraisal by students (Mid semester-review)	23 Mar 2020	28 Mar 2020	
8	Review of Minor Project Phase-I	06 Apr 2020	11 Apr 2020	
9	Test-II (Compulsory)	23 Apr 2020	25 Apr 2020	Continuous Internal Evaluation (CIE-II)
10	Counseling & Student Performance Review-II	28 Apr 2020		
11	Last Date for Withdrawal of Courses	29 Apr 2020		
12	Review of Minor Project Phase-II	18 May 2020	23 May 2020	
13	Orientation for Internship	28 May 2020		
14	Test-III (Compulsory)	18 May 2020	20 May 2020	Continuous Internal Evaluation (CIE-III)
15	Faculty appraisal by students (End semester-review)	25 May 2020	30 May 2020	
16	Submission of Seminar/Assignment/Minor Project Reports	01 June 2020		
17	Course End Survey	01 June 2020		
18	Finalization of CIE	04 June 2020		
19	Semester End Examination (Practical)	08 June 2020	11 June 2020	
20	Semester End Examination (Theory)	15 June 2020	26 June 2020	
21	Declaration of Results	03 July 2020		
22	Applying for photo copies of answer script	04 July 2020	06 July 2020	
23	Issue of photo copies of answer script	08 July 2020		
24	Applying for Revaluation /Make up exam	03 July 2020	11 July 2020	
25	Commencement of Make-up Examination	17 July 2020	22 July 2020	
26	Declaration of Results of Make-up/Revaluation exam	29 July 2020		

**NOTE:**

1. Departments may prepare their detailed calendar of events based on the above institutional calendar.
2. Quiz-I and Quiz-II are to be conducted before the commencement of Test-I and Test-II respectively.
3. Dates may change due to exigencies or unexpected holidays.

**POSTGRADUATE PROGRAM ACADEMIC CALENDAR FOR THE YEAR  
2019-2020**

**Autonomous Scheme**

**SUMMER SEMESTER**

Sl. No.	EVENT	DATES		REMARKS
		From	To	
1	Registration for Summer semester	06 Jul 2020		
2	Commencement of Classes	06 Jul 2020		
3	Test-I (Compulsory)	27 Jul 2020	28 Jul 2020	Continuous Internal Evaluation (CIE-I)
4	Test-II (Compulsory)	10 Aug 2020	11 Aug 2020	Continuous Internal Evaluation (CIE-II)
6	Finalization of CIE	14 Aug 2020		
7	Semester End Examination (Practical)	17 Aug 2020	20 Aug 2020	
8	Semester End Examination (Theory)	21 Aug 2020	31 Aug 2020	
9	Commencement of ODD Semester	03 Sept 2020		
10	Declaration of Results	07 Sept 2020		

**NOTE:**

1. Departments may prepare their detailed calendar of events based on the above institutional calendar.
2. Quiz-I and Quiz-II are to be conducted before the commencement of Test-I and Test-II respectively.
3. Dates may change due to exigencies or unexpected holidays.

**POSTGRADUATE PROGRAM ACADEMIC CALENDAR FOR THE YEAR  
2020-2021  
(2019-21 Batch) Autonomous Scheme  
THIRD SEMESTER**

Sl. No.	EVENT	DATES		REMARKS
		From	To	
1	Commencement of Classes	03 Sept 2020		
2	Registration for the odd semester	03 Sept 2020	07 Sept 2020	
3	Last Date for Dropping of Courses	24 Sept 2020		
4	Test-I (Compulsory)	12 Oct 2020	17 Oct 2020	Continuous Internal Evaluation (CIE-I)
5	Counseling & Student Performance Review-I	22 Oct 2020		
6	Faculty appraisal by students (Mid semester-review)	26 Oct 2020	31 Oct 2020	
7	Internship Review & Evaluation-I	02 Nov 2019	07 Nov 2020	
8	Test-II (Compulsory)	16 Nov 2020	21 Nov 2020	Continuous Internal Evaluation (CIE-II)
9	Counseling & Student Performance Review-II	25 Nov 2020		
10	Last Date for Withdrawal of Courses	26 Nov 2020		
11	Faculty appraisal by students (End semester-review)	23 Nov 2020	28 Nov 2020	
12	Major Project : Phase-I, Review-I	23 Nov 2020	28 Nov 2020	
13	Internship Review & Evaluation-II	30 Nov 2020	05 Dec 2020	
14	Major Project : Phase-I, Review-II	07 Dec 2020	12 Dec 2020	
15	Test-III (Compulsory)	14 Dec 2020	19 Dec 2020	Continuous Internal Evaluation (CIE-III)
16	Submission of Major Project : Phase-I & Internship Report	21 Dec 2020		
17	Course End Survey	23 Dec 2020	26 Dec 2020	
18	Finalization of CIE	26 Dec 2020		
19	Semester End Examination (Practical)	30 Dec 2020	02 Jan 2021	
20	Semester End Examination (Theory)	04 Jan 2021	15 Jan 2021	
21	Declaration of Results	27 Jan 2021		
22	Applying for photo copies of answer script	28 Jan 2021	30 Jan 2021	
23	Issue of photo copies of answer script	02 Feb 2021		
24	Applying for Revaluation / Make-up exam	28 Jan 2021	05 Feb 2021	
25	Commencement of Make-up Examination	10 Feb 2021	15 Feb 2021	
26	Declaration of Results of Make-up Exam	24 Feb 2021		

**NOTE:**

1. Departments may prepare their detailed calendar of events based on the above institutional calendar.
2. Quiz-I and Quiz-II are to be conducted before the commencement of Test-I and Test-II respectively.
3. Dates may change due to exigencies or unexpected holidays.

**POSTGRADUATE PROGRAM ACADEMIC CALENDAR FOR THE YEAR  
2020-2021  
(2019-21 Batch) Autonomous Scheme**

**FOURTH SEMESTER**

Sl. No.	EVENT	DATES		REMARKS
		From	To	
1	Commencement of Major Project : Phase-II	27 Jan 2021		
2	Registration for the even semester	27 Jan 2021	29 Jan 2021	
3	Major Project : Phase-II, Review-I	15 Jan 2021	20 Jan 2021	
4	Counseling and Students Performance Review-I	24 Feb 2021		
5	Technical Seminar Review-I	01 Mar 2021	06 Mar 2021	
6	Major Project : Phase-II, Review-II	15 Mar 2021	20 Mar 2021	
7	Counseling and Students Performance Review-II	25 Mar 2021		
8	Technical Seminar Review-II	05 Apr 2021	10 Apr 2021	
9	Major Project : Phase-II, Review-III	03 May 2021	08 May 2021	
10	Counseling and Students Performance Review-III	13 May 2021		
11	Course End Survey	20 May 2021		
12	Finalization of CIE (with approved copy of Major Project Report and Technical Seminar)	25 May 2021		
13	Last Day for Uploading the M.Tech Thesis for 2020- Convocation	30 May 2021		
14	Semester End Exam : Technical Seminar	03 June 2021	09 June 2021	

**NOTE:**

1. Departments may prepare their detailed calendar of events based on the above institutional calendar.
2. Quiz-I and Quiz-II are to be conducted before the commencement of Test-I and Test-II respectively.
3. Dates may change due to exigencies or unexpected holidays.

**POSTGRADUATE PROGRAM ACADEMIC CALENDAR FOR THE YEAR  
2019-20  
(2018-19 Batch) Autonomous Scheme**

**THIRD SEMESTER**

Sl. No.	EVENT	DATES		REMARKS
		From	To	
1	Commencement of Classes	03-09-2019		
2	Registration for the odd semester	03-09-2019	06-09-2019	
3	Test-I (Compulsory)	14-10-2019	19-10-2019	Continuous Internal Evaluation (CIE-I)
4	Counseling & Student Performance Review-I	24-10-2019		
5	Faculty appraisal by students (Mid semester-review)	28-10-2019	02-11-2019	
6	Internship Review & Evaluation-I	04-11-2019	09-11-2019	
7	Test-II (Compulsory)	18-11-2019	23-11-2019	Continuous Internal Evaluation (CIE-II)
8	Counseling & Student Performance Review-II	25-11-2019		
9	Faculty appraisal by students (End semester-review)	25-11-2019	30-11-2019	
10	Major Project : Phase-I, Review-I	25-11-2019	30-11-2019	
11	Internship Review & Evaluation-II	02-12-2019	07-12-2019	
12	Major Project : Phase-I, Review-II	09-12-2019	14-12-2019	
13	Test-III (Compulsory)	16-12-2019	21-12-2019	Continuous Internal Evaluation (CIE-III)
14	Submission of Internship Report	23-12-2019		
15	Course End Survey	23-12-2019	28-12-2019	
16	Finalization of CIE	26-12-2019		
17	Semester End Examination (Practical)	30-12-2019	02-01-2020	
18	Semester End Examination (Theory)	06-01-2020	17-01-2020	
19	Declaration of Results	27-01-2020		
20	Applying for photo copies of answer script	28-01-2020	30-01-2020	
21	Issue of photo copies of answer script	03-02-2020		
22	Applying for revaluation /make up exam	28-01-2020	05-02-2020	
23	Commencement of Make-up Examination	10-02-2020	15-02-2020	
24	Declaration of Results of Make Up Exam	24-2-2020		

**NOTE:**

1. Departments may prepare their detailed calendar of events based on the above institutional calendar.
2. Quiz-I and Quiz-II are to be conducted before the commencement of Test-I and Test-II respectively.

**POSTGRADUATE PROGRAM ACADEMIC CALENDAR FOR THE YEAR  
2019-20  
(2018-19 Batch) Autonomous Scheme**

**FOURTH SEMESTER**

Sl. No.	EVENT	DATES		REMARKS
		From	To	
1	Commencement of Major Project : Phase-II	27-01-2020		
2	Registration for the even semester	27-01-2020	29-01-2020	
3	Major Project : Phase-II, Review-I	17-02-2020	22-02-2020	
4	Counseling and Students Performance Review-I	28-02-2020		
5	Technical Seminar Review-I	02-03-2020	07-03-2020	
6	Major Project : Phase-II, Review-II	16-03-2020	21-03-2020	
7	Counseling and Students Performance Review-II	03-04-2020		
8	Technical Seminar Review-II	06-04-2020	11-04-2020	
9	Major Project : Phase-II, Review-III	04-05-2020	08-05-2020	
10	Counseling and Students Performance Review-III	20-05-2020		
11	Course End Survey	23-05-2020		
12	Finalization of CIE (with approved copy of Major Project Report and Technical Seminar)	25-05-2020		
13	Last Day for Uploading the M.Tech Thesis for 2020- Convocation	30-05-2020		
14	Semester End Exam : Technical Seminar	03-06-2020	09-06-2020	

## ANNEXURE-2

Route No	Route Details	Transporter	Start Timing	Staff/Student Bus
1	Udupi Garden, Jayadeva Cardiology, Ragi Gudda, Jayanagar, 9 <sup>th</sup> Block (Noor Store), S.G.H. Bus Stop, Coffee Day, Telephone Exchange, Bangalore High School, K.R.Road (Shastri Bakery), Indira Nursing Home, KIMS, D.G. Petrol Bunk, Hosakerehalli, RVCE.	Udupi Garden (BMTC)	7.20am	Student
2	RVDC, Brigade Millennium, 15 <sup>th</sup> Cross, JP Nagar, Sarakki, Kadirenahalli, GowdannaPalya, Chikkalasandra, Uttarahalli, RR Nagar/Gate, RVCE.(return via R V Layout)	Brigade Millennium (NT)	7.20am	Student
3	RVCE Girl's Hostel - Krishna Garden, R. R. Nagar - RVCE. (Return via Mylsandra)	Krishna Gardens (RVCE)	8.10am	Student
4	Venkatadhri Girls Hostel (Near JSS College, Uttarahalli), Via Krishna Garden, RR Nagar, Pattanagere,- RVCE (Return via Mylsandra, R V Layout)	Venkatadhri Hostel (RVCE)	8.00am	Student
5	Yeshwanthpur Police Station/Bus Stand, YPR railway station, Nandini layout, Srinivasa Temple, ISKON Metro Stop, Rejainagar 1 <sup>st</sup> Block Flyover Stop, Modi Hospital, Shankar, Mutt, 8 <sup>th</sup> Main (Basaveshwaranagar), Havanur Circle, Vijayanagar, Maruti Mandir, Chandra Layout, RVCE Hebbal Bus Stand, Mekhri Circle, Rajamahal Gutthahalli, Sadashivanagar (Bhashyam Circle), 18 <sup>th</sup> Cross (Malleshwaram), K.C.General Hospital, Harishchandra Ghat, Navarang, Power House, Dhobi Ghat, Vijayanagar Bus Stand, Buni's Sangha, RVCE.	Yeshwanthpur/Nandini Layout (NT)	7.15am	Student
6	Hebbal/Mekhri Circle/Malleshwaram (NT)	Hebbal/Mekhri Circle/Malleshwaram (NT)	7.00am	Student
7	Koramangala 4 <sup>th</sup> Block(BDA Complex,Canara Bank, KFC), Sony world (after signal),Dell (Opp.Hyundai), Domlur (opp.KHT motors), Indiranagar (opp.Bata show room, CMH Hospital Bus stop, CMH road KFC after signal, Metro station), Ulsoor ACP Office, KidsKemp (behind Kids Kemp after signal),Shoole Circle(signal),Baldwin school, Richmond Circle(under the flyover junction), Corporation, Town Hall, RVCE.	Koramangala/ Indiranagar (NT)	7.00am	Student
8	Mahadevpura HDFC Bank ( B.Narayanapura, EMC-2, Karthiknagar Bus stop, Marathalli Kalamandir, JP Morgan, Belandur Eco -Space, Akmev Harmony Apartments, Akmev Harmony Apartments, Sarjapura/Iblur Signal, Agara Signal, SBI Bank HSR Layout 24 <sup>th</sup> Main, HSR BDA Complex, Jananai Tour & Travels/Furnhill Apartments, Central Silk Board, Jayadeva signal, JD Mara Signal, Delmia Signal, Sarakki, DG Petrol Bunk, Hosakerehalli, RVCE	Mahadevpura/Sarjapura/HSR (BMTC)	6.50am	Student
9	Madhavan Park, Vijaya Bank (11 <sup>th</sup> Main), Himalaya Stores (18 <sup>th</sup> Main), Pump House (Carmel Convent Road), IX Block (East Circle), BPRI, Sevakshehra Hospital, (40 <sup>th</sup> Cross, 9 <sup>th</sup> Main) Junction, JSS School (38 <sup>th</sup> Cross), 19 <sup>th</sup> Cross, K.R Road, KIET, Shamanna Park (Nagasandra Circle), Ramakrishna Ashram, Canara Bank, Hanumantha Nagar, Bank Colony, Ring Road, Hosakerehalli, PES University, RVCE	Jayanagar/Hanumanthnagar (NT)	7.30am	Staff
10	Shivajinagar (Ramda Hotel), Shivananda Stores, Seshadripuram, Central, Malleshwaram Circle, KCC Hospital, Harishchandra Ghat, Mariyappana Palya, Navarang Theatre, ESL, Rama mandira, Prasanna Theatre, Vijayanagar Bus stand, BMTC Depot, Attiguppe, BHEL Circle, RVCE	Shivajinagar/Malleshwaram/Vijayanagar(NT)	7.30am	Staff

Note: Departure from Campus: Evenings: Mon-Fri - 5pm. Saturday (on working days): 1.45pm

- Route no 5 : Starting Point: Yeshwanthpur Police Station/Bus Stand via Yeswanthpur Railway station & Nandini Layout
- Route no: 6 : Starting Point will be Hebbal Bus Stand via Mekhri circle

#### Transportation Charges:

- Regular College Buses: Rs. 25,000/- for full year
- For Girls Students staying in Krishna Gardens & Venkatadhri Hostels: Rs. 12,000/- for full year.
- For final semester students fee is Rs. 12,500/- with prior permission. For Girls Hostels: Rs.6,000/- with prior permission

Vehicle Parking Charges for Students- full year:

4 wheelers: Rs. 2,714/-

2 wheelers: Rs. 1,360/-

All amounts payable through DD favoring: "R V College of Engineering", payable at Bengaluru

For enquiries contact no: 080-67178368 - Mr.S.K.Venkatesh-Admin Manager.

Daily operations: 080-67178060 -Security Office