RV College of Engineering

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GUIDELINES AND INFORMATION OF UNDERGRADUATE PROGRAMS

Academic Planning, Assessment & Evaluation Process

WITH EFFECT FROM ACADEMIC YEAR 2025- 26

RV College of Engineering®

RASHTREEYA SIKSHANA SAMITHI TRUST

NAAC GRADE A+ ACCREDITED INSTITUTION

SINCE 1963

SHAPING VISIONARIES, CRAFTING INNOVATORS

An autonomous institution affiliated with VTU, Belagavi, and approved by AICTE and UGC, New Delhi

- **RV SATELLITE-1 (RVSAT - 1)** India's First Microbiological Payload, launched by RVCE students in December 2024
- **NCC** - Best Institution Award of Karnataka and Goa Directorate (2019, 2022, 2023 & 2025)

₹50 Cr.

MoU with **TATA Technologies** to establish Centre for Invention, Innovation, Incubation & Training

Placements

₹92 LPA	250+	92%	₹10 LPA
Highest Package	Recruitment Partners	Placement Rate	Median Salary

Rankings

99th	1501+	601+	NBA	IIRF 2025	NPTEL
NIRF Ranking 2024 in Engineering Category	Times Higher Education World University Rankings-2025	Times Higher Education Asia University Rankings-2025	UG and PG programs accredited multiple times	Engineering ranking India National - 01 State - 01 Zone - 01	Local Chapter Ranking 2025 National–09 State – 01

Research and Centres

37 Skill Labs

General Skills, Domain Skills, Interdisciplinary Skills

- Bosch Rexroth
- Mercedes Benz
- Morris Garage
- Boston AI System
- Toyota Kirloskar
- Vision Astra EV Academy

Outcome Based Education (OBE) emphasizing on experiential learning, research-based learning and skill-based learning

20 Centres of Excellence	8 Centres of Competence	16 Research Centres in niche areas
80 Patents filed	**65** Patents published	**46** Patents granted
32 Innovative & Cultural activity teams	**₹30 Cr.** Research and projects consultancy (last 5 years)	

16 Research Centres in niche areas
- Autonomous Vehicles
- Nanomaterials and Devices
- Hydrogen and Green Technology
- Extended Reality
- Healthcare
- E-mobility
- IoT and Sensors
- Smart Antenna System
- Computational Genomics
- Quantum Computing

Programs and Faculty

- **13 UG** Programs; 1420 (2025) annual sanctioned intake
- **13 PG** Programs 390 (2025) annual sanctioned intake
- **Ph.D.** Programs in all departments
- **500+** Faculty Members and Staff

CET / KEA Code: **E005**
COMED-K Code: **E095**
PGCET Code (MTech): **T857**
PGCET Code (MCA): **C463**

State-of-the-Art infrastructure

- Innovation Center
- Gymnatorium
- Hostels
- Labs & Workshops

Alumni

36,000 + Alumni across the globe	100+ RVCE alumni in civil service

RVCE Reconnect - USA edition, our first International Alumni Meet

NUMBER OF ATTENDEES

650 San Jose	120 Seattle

Mr. Suresh Katta, RVCE alumnus & Chairman Emeritus of Saama Group, USA and Mr. Anil Kumble, RVCE alumnus & former Indian cricketer, were the Guests of Honour at the alumni meets held in San Jose & Seattle, USA.

Collaborations with International universities

125 MoUs with Industry, Institutions & Research Establishments

thws · Fachhochschule Dortmund · Technische Hochschule Rosenheim · HTWD · THE UNIVERSITY OF IOWA · FIU FLORIDA INTERNATIONAL UNIVERSITY · Saint Peter's UNIVERSITY · KENNESAW STATE UNIVERSITY · RWTH AACHEN UNIVERSITY

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GUIDELINES AND INFORMATION OF UNDERGRADUATE PROGRAMS

Academic Planning, Assessment & Evaluation Process

WITH EFFECT FROM ACADEMIC YEAR 2025- 26

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.

GLOSSARY OF ABBREVIATIONS

1.	AC	Academic Council
2.	Academic Autonomy	Freedom given to a College in all aspects of conducting its academic programs, granted by the University for promoting excellence (within the guide lines of VTU)
3.	AS	Aerospace Engineering
4.	Autonomous College	College designated as an autonomous college by the university, as per the VTU Autonomous College Statute- 2006.
5.	BoS	Board of Studies
6.	BT	Biotechnology
7.	CD	Computer Science and Engineering (Data Science)
8.	CGPA	Cumulative Grade Point Average
9.	CH	Chemical Engineering
10.	CI	Computer Science and Engineering (Artificial Intelligence and Machine Learning)
11.	CIE	Continuous Internal Evaluation
12.	Commission	University Grants Commission
13.	Council	All India Council for Technical Education
14.	CS	Computer Science and Engineering
15.	CV	Civil Engineering
16.	CY	Computer Science and Engineering (Cyber Security)
17.	CY	Chemistry
18.	EC	Electronics and communication Engineering
19.	EE	Electrical and Electronics Engineering
20.	ET	Electronics and Telecommunication Engineering
21.	GAC	Grading Advisory Committee
22.	IM	Industrial Engineering and Management
23.	Lateral Entry	Such students who have joined the program in the second year of four-year program
24.	MA	Mathematics
25.	ME	Mechanical Engineering
26.	MHRD	Ministry of Human Resources Development
27.	DX (NSAR/NSSR)	Not Satisfied Attendance Requirement
28.		Not Satisfied Sessional Requirement (did not get the Minimum CIE requirement to appear for SEE)
29.	PG	Postgraduate Program
30.	PH	Physics
31.	Regular B.E.	Such students who have joined the program in the first year of four-year program
32.	SEE	Semester End Examination
33.	SGPA	Semester Grade Point Average
34.	UG	Undergraduate Program
35.	University	Visvesvaraya Technological University (VTU)

CONTENT

CONTENT

1. PROFILE OF THE INSTITUTION

1.1 RASHTREEYA SIKSHANA SAMITHI TRUST (RSST)

Committed towards the dissemination of knowledge for the last 8 decades, we at Rashtreeya Sikshana Samithi Trust (RSST/RV) are dedicated to impart quality education in all disciplines. Our purpose of providing education at a higher scale was etched in stone in 1940 with the inception of the RV Higher Primary School by late M.C. Sivananda Sharma.

Described by many as insightful and hardworking, he was born and raised in a village called Madarahalli where he discovered his passion for reading books and learning from a young age. Inspired by the teachings of Mahatma Gandhi, Sri. Sivananda Sharma joined the Indian Independence movement as a freedom fighter, where he realized his purpose of providing quality education for the development of the country. Following the principles of the Indian educationist Pandit Madan Mohan Malaviya, he initiated the journey of RV Educational Institutions (RVEI) from a single classroom with an enrolment of 6 students.

Today, our educational ecosystem consists of more than 20 institutions, which are supported by more than 2000 staff members, with nearly 20000 students. Our academic infrastructure comprises of degree colleges, health science institutions, technology institutions, pre-university colleges & schools. We initiated RV-Skills to provide industry centered courses in Artificial Intelligence (AI), Automotive Engineering (AE) and Very Large System Integration (VLSI). Latest addition is RV University (RVU), a State Private University which has been established in Karnataka State, with RSST as the sponsoring body in the year 2020. **RVU** is offering UG, PG and Doctoral degree in Liberal Arts and Sciences, Design, Law, Computer Science, Economics and Finance. Additionally, we also have an Incubation Centre to guide & fund budding start-ups.

RV Institutions are dedicated to the mission of providing "excellence in education with societal commitment". The institutions provide equal opportunities to underprivileged and students with special needs. We also undertake social welfare initiatives through our institutions by organizing health camps, enhancing education in government schools and community awareness programs in rural areas.

We earnestly endeavor to make every student a success story. Our motto "Go, Change the world" inspires us to create a holistic educational experience, which empowers our students to grow and develop as global leaders who can revolutionize their respective fields for the betterment of society.

1.2 RV COLLEGE OF ENGINEERING (RVCE)

RV College of Engineering (RVCE), established in 1963, is one of the earliest self-financing engineering colleges in the country. The institution is run by Rashtreeya Sikshana Samithi Trust (RSST), a not-for-profit Trust. RVCE is an Autonomous college. Currently, the institution offers 15 Bachelor, 14 Master Programs and all the departments have Research Centers, affiliated to Visvesvaraya Technological University (VTU) Belagavi. The institution has set itself a Vision ***"Leadership in Quality Technical Education, Interdisciplinary Research & Innovation, With a Focus on Sustainable and Inclusive Technology".***

Recent awards and achievements include – NAAC accreditation 'A+' grade, Ranked 99th in the Country by National Institutional Ranking Framework (NIRF-2024), Ranked 7th in the country & 2nd in Karnataka – IIRF Ranking (2024), Ranked 4th among the top 10 of 100 Pvt. Engg. Colleges in the

Country by Education World Magazine-24, Ranked 1501+ in Times Higher Education World University Rankings-2025.

Ranked 1001+ in Computer Science and 1251 Rank in Engineering category in THE World University Rankings-2024, Ranked 1501+ in Impact Ranking -2024, Ranked 601+ in Asia World University Rankings (Asia)-2025, and NPTEL (Local Chapter) "AAA" Rating.

The institution has to its credit over 1500 National and International Journal publications, filed 77 patents, 65 published patents, 45 granted patents, completed sponsored research and consultancy projects worth Rs. 20.0 crores in the last three years. The institution has established more than 27 Centers of Excellence / Centers of Competence in niche areas of science and technology. All the eligible UG and PG programs have been accredited by NBA multiple Times. Six UG Programs and 1 PG program have been accredited for six and five years respectively by NBA. The students have won awards and accolades in national and international competitions.

1.3 OUTCOME BASED EDUCATION (OBE) WITH EXPERIENTIAL LEARNING (EL)

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. The institution has implemented Outcome Based Education (OBE), with a focus on ICT and project-based leaning to enhance critical thinking ability. The institution has introduced experiential learning to motivate students to innovate, bring in teamwork and lifelong learning & encourage students to form multidisciplinary groups for major projects, leading to securing funded projects. The programs are designed with requisite number of foundation courses, advanced courses, SWEBOK, MOOCS, NPTEL, QEEE, industry-based electives and laboratories to facilitate enhancement of competence of the students in all the relevant domains and render them employable, prepare them for higher studies, entrepreneurship and public service.

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.

1.4 INTER-DISCIPLINARY RESEARCH & INNOVATION

R.V. College of Engineering (RVCE) has built a strong foundation for **interdisciplinary research and innovation**, anchored in the institution's core strengths and aligned with national priorities. With a clear focus on developing a **Unique Selling Point (USP)** for the college, RVCE seeks to contribute to **sustainable development**, drawing inspiration from ancient Indian practices and Gandhian principles. The institutional motto, *"Leveraging global knowledge and delivering local solutions,"* reflects this ethos.

Advancing as a Research-Led Institution

RVCE has transitioned into a research and teaching institution with a strong emphasis on innovation. Many of its faculties hold doctoral degrees and are engaged in impactful research, supported by institutional incentives for sponsored projects and consultancy. Over the past three years, RVCE has:

a. Published over **1,400 research papers** in reputed national and international journals.

b. Executed **research and consultancy projects worth ₹30 crore**.

c. Filed over **86 patents**, with **70 published** and **46 granted**.

Infrastructure and Research Ecosystem

The institution supports its research community with:

a. Over **75 licensed software tools** for modelling, analysis, and simulation.

b. A high-end computing infrastructure.

c. **37 Skill Labs**, **20 Centre's of Excellence (CoE's)**, and **8 Centre's of Competence (CoC's)**.

d. **16 Research Centre's**, recognized by VTU, offering **M.Sc (Engg.)** by research and **Ph.D. programs.**

e. Research Centre's (Ph.D. & M.Sc. Engg.) Across Departments

RVCE's research centre's are active in the following disciplines:

Sl. No.	Department	Year Started
1	Mechanical Engineering	1999
2	Chemical Engineering	2000
3	Electronics & Communication Engineering	2004
4	Industrial & Engineering Management	2004
5	Electronics & 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	Aerospace Engineering	2024

Centre's of Excellence (CoE's) and Centre's of Competence (CoC's)

RVCE has established multiple CoE's and COC's in emerging and interdisciplinary domains, including:

SL. NO.	CENTRE OF EXCELLENCE
1.	Materials Fabrication and Characterization (CoE-MFC)
2.	RVCE- HPCC Systems Cognitive Intelligent Systems for Sustainable Solutions (CISSS)
3.	Internet of Things -CISCO-RVCE
4.	Computational Genomics
5.	Smart Antenna Systems and Measurements (SASM)
6.	Interdisciplinary Research in Quantum Information and Technology (cirquit)
7.	Connected Autonomous Vehicles
8.	e-mobility
9.	Hydrogen and Green Technology
10.	Computer Vision Research (Next Generation AI Enabled)
11.	Logistics & Supply Chain Management
12.	RVCE-BOSTON - AI Research and Business Solutions
13.	Women in Cloud Centre of excellence in India
14.	Sensor Technology Applications (CSTA)
15.	Nanomaterials and Devices (NMD)
16.	Integrated Circuits and Systems (ICAS)
17.	RV- Toyota Kriloskar Centre of excellence in Automotive Engineering,
18.	3S Infrastructure -Safe, Sustainable & Smart
19.	Extended Reality Centre for Education and Research
20.	Health Care Technology Research (CHTR)

SL. NO.	CENTRE OF COMPETENCE
21.	RV- Bosch Rexroth- Centre for Automation Technologies
22.	RV- Mercedes Benz Centre for Automotive Mechatronics
23.	Automation and Robotics (Digital Manufacturing),
24.	Education & Digital Learning Research (CEDLR)
25.	5G and emerging Wireless Technologies
26.	RVCE - Morris Garage-Centre of Excellence in Electric Vehicle Technology (EVT)
27.	Smart Vidyuth and Sustainable Solutions
28.	Vision Astraa EV Academy

Key Collaborative Research Initiatives

RVCE has established a strong ecosystem of **Centres of Excellence (CoEs)** and **Centres of Competence (CoCs)** that drive innovation, research, and skill development across multiple domains. The 20 CoEs focus on frontier technologies such as Artificial Intelligence, Data Science, Cybersecurity, IoT, Quantum Computing, Additive Manufacturing, VLSI, and Smart Energy. They are equipped with advanced labs, simulation tools, and industry collaborations that enable cutting-edge research and real-world solutions. Specialized centres in Aerospace, Automotive Mechatronics, Smart Antenna Systems, and Structural Engineering foster domain-specific expertise. CoEs in Renewable Energy, Green Technologies, Sensor technologies and Biomedical Engineering integrate engineering with societal needs, advancing sustainability and healthcare innovations. Robotics, Autonomous Systems, and Industrial Automation centres support Industry 4.0 and intelligent systems development. These CoEs collectively empower students to work on interdisciplinary projects that align with national missions like Digital India, Smart Cities, and Clean Energy.

Complementing the CoEs, the 8 **Centres of Competence (CoCs)** focus on industry-driven skill development and certifications. They provide hands-on training in areas such as product design, embedded systems, enterprise software, and digital manufacturing. With industry-grade tools and partnerships, CoCs prepare students for careers with global companies. They also serve as platforms for internships, hackathons, and live corporate projects, bridging classroom learning with workplace requirements. Students benefit from professional certifications that enhance employability and global competitiveness. The CoCs also promote innovation and entrepreneurship by supporting student-led projects and startups. Together, the CoEs and CoCs ensure that RVCE graduates are not only academically strong but also industry-ready and future-focused. They transform the campus into a hub of research, innovation, and professional excellence. By integrating advanced technologies with sustainable and practical solutions, RVCE positions itself as a leader in engineering education and applied research

Skill-Based Training Initiatives

RVCE has also introduced specialized training programs through:

a. **Bosch Rexroth Automation Technologies Labs**

b. **ADAM Program** with Mercedes-Benz: Skill-based training in advanced automotive mechatronics.

c. **RVCE- MG Electric Vehicle Technology with MG Motor India Pvt Ltd., provides** Skill-based training in the sector of EV Technology

d. **Tata Ready Engineers Program**

e. **AICTE-sponsored "Suryamitra" program** for solar maintenance and digital literacy for rural students.

Flagship Projects & Collaborations

a. **RV SATELLITE-1 (RVSAT–1)**: India's first microbiological payload satellite by students, launched in Dec 2024.

b. **WIRIN Initiative** (with Wipro & IISc): Focus on autonomous systems, AI, ML, and robotics.

c. **₹50 Crore Centre for Innovation** established in collaboration with Tata Technologies.

d. Over **125 MoUs** with leading industries, institutions, and research establishments.

e. The **Boeing – RVCE – AICTE IDEA Lab**, a collaborative initiative between AICTE and Boeing India aims to foster innovation, design thinking and entrepreneurship among students and faculty in technical institutions with a total budget of Rs. 90 Lakhs.

f. **TATA-RVCE Partnership** Establishes World-Class Skill Development Facility - TATA Technologies Limited has sponsored **₹50 crore**, complemented by an **₹10 crore investment from RVCE**, to establish a state-of-the-art facility focusing on advanced Industry 4.0 technologies. The center is equipped with cutting-edge infrastructure in **smart manufacturing, robotics, 3D printing, CAD/CAM specialized software, e-mobility solutions, and advanced assembly systems**. This initiative aims to create a comprehensive ecosystem for research, innovation, and practical training aligned with modern industrial needs. Beyond serving as a hub for engineering education, the facility is **extended to ITI, diploma, and engineering students**, thereby broadening its impact on technical skill development. By offering hands-on exposure to modern tools and processes, it strengthens employability and enhances opportunities in emerging sectors. The collaboration between ATA Technologies and RVCE reflects a strong industry-academia partnership designed to **nurture future-ready professionals**, ensuring students are equipped with the skills required for global competitiveness in advanced engineering and manufacturing domains

Interdisciplinary research at RVCE is not just a practice - it's a priority. With an ecosystem built on collaboration, innovation, and societal relevance, RVCE empowers faculty and students to engage in groundbreaking research that fosters institutional excellence and contributes meaningfully to national development and global progress.

1.5 INDUSTRY INSTITUTE INTERACTION & PLACEMENT

RVCE has been steadily strengthening its industry–academic collaborations and R\&D activities, with several leading companies establishing dedicated laboratories on campus. These partnerships enable

students to work on live projects under industry mentorship, fostering strong student–industry rapport and enhancing employability. Faculty and students are actively involved in consultancy assignments, joint research, and industry-funded projects, addressing real-world challenges while creating opportunities for innovation, start-up incubation, and entrepreneurship support. Students also benefit from industrial visits, internships, expert lectures, skill-based training, and joint certification programs, making RVCE a vibrant hub of experiential learning.

Over the years, RVCE has signed more than 130 MoUs with multinational corporations, start-ups, government agencies, and global universities. Companies such as Bosch Rexroth, SAP Labs, Intel, IBM, Wipro, and Mercedes-Benz have set up training centres and labs on campus, while collaborations extend to sectors such as healthcare, biotech, energy, and automotive. Government bodies like ISRO, DRDO, BEL, and NHAI engage with RVCE for consultancy and research, and international tie-ups with universities in Germany, the USA, and the UK provide student exchange and joint research opportunities. These partnerships align RVCE with Industry 4.0 domains including AI, IoT, Cybersecurity, EV technology, Smart Manufacturing, and Renewable Energy.

RVCE also has a strong placement record, with over 250 recruiters from diverse sectors such as IT, manufacturing, healthcare, finance, consulting, and R\&D visiting the campus annually. Prominent recruiters include Microsoft, Goldman Sachs, PayPal, Qualcomm, Walmart, Deloitte, KPMG, Infosys, Boeing, and Airbus, among many others. Despite global slowdowns, the institute has consistently witnessed rising placement trends. In 2022–23, 1267 offers were made by 269 companies; in 2023–24, 1155 offers by 281 companies; and for the ongoing 2024–25 batch, 936 offers have already been made by 252 companies, with the process continuing. Structured technical training, soft skills development, and domain-specific preparation ensure that students secure placements aligned with their specialization, positioning RVCE as a launchpad for careers in technology, innovation, and research both in India and globally.

1.6 STUDENT ACTIVITIES

At RVCE, student activities are an integral part of holistic development. The **NSS, NCC, and Rotaract teams** organize a wide range of community and social service events, encouraging students to actively contribute to society.

The **Cultural Activities Team** helps students discover and nurture their talents, providing a platform to showcase their skills in various cultural forums. Similarly, RVCE strongly promotes participation in **sports**, offering allowances, uniforms, and attendance support to student-athletes who represent the institution at university, inter-state, national, and international competitions.

RVCE also boasts more than **17 innovative student teams**, working on projects such as **hybrid automobiles, unmanned aerial vehicles (UAVs), drones, robots, racing cars, and the Coding Club**. Students are motivated to participate in prestigious competitions, where they have consistently earned accolades at **regional, university, national, and international levels**. These teams are guided and mentored by experienced faculty members as well as industry experts.

In addition, the institution hosts **24 professional societies**, providing students with avenues to engage in professional development, industry exposure, and technical advancements.

1.7 ENTREPRENEURSHIP CELL

The institute has been educating students about entrepreneurship for the past 10 years. The younger generation is more interested in incubating their ideas and making them into their own venture once

they are out of the campus. RVCE has created an ecosystem in the campus to learn entrepreneurship. There are 5-6 courses available for students from the first year. They will learn subjects like Intellectual Property Rights, Management & Behavior Science, Economics, Systems Engineering and many more. RVCE also has an Entrepreneurship Development Cell with over 200 students as members of it. The college has tied up with over 15 companies to give the guidance and support needed for student entrepreneurs.

1.8 INTERNATIONAL COLLABORATIONS

The institution has signed MoU with University of Applied Sciences (THWS) Wurzburg-Schweinfurt, Germany, Dortmund University of Applied Science and Arts- Germany and Florida International University, Miami, USA, University of the West of Scotland-Paisley, UK and jointly working in the area of Robotics and Automation, Business Engineering, Logistics, Mechatronics, Augmented Reality, Virtual Reality and E-Mobility.

RV College of Engineering (RVCE) actively fosters international academic partnerships to enhance global exposure, promote cross-cultural knowledge exchange, and create impactful research and development outcomes. The institution has signed Memoranda of Understanding (MoUs) with a number of globally reputed universities and institutions, enabling a wide range of collaborative academic and research initiatives.

Partner Institutions

Germany:

a. **University of Applied Sciences Würzburg-Schweinfurt (THWS)** – A long-standing partnership spanning over a decade, involving student and faculty exchange, joint research, and dual-degree initiatives.

b. **University of Applied Sciences and Arts Dortmund** – Collaborating on design, business engineering, short term certificate course and interdisciplinary projects.

c. **RWTH Aachen University** – One of Germany's top technical universities, fostering advanced research collaborations and short-term certificate courses

d. **Rosenheim Technical University of Applied Sciences** – Engagement in the areas of mechatronics, automation, and industry-focused programs.

e. **University of Applied Sciences Dresden** – Focused on engineering, mobility solutions, semi-conductors and innovative project-based learning.

United States:

a. **Florida International University (FIU), Miami** – A comprehensive collaboration across engineering, innovation, and student mobility programs.

b. **The University of Iowa, Iowa City** – Working together on academic exchange, research projects, and student internships.

Areas of Collaboration

These partnerships span a diverse range of academic and industrial domains, including but not limited to:

a. Robotics and Automation

b. Business Engineering

c. Logistics and Supply Chain Management

d. Mechatronics and Embedded Systems

e. Augmented Reality (AR) & Virtual Reality (VR)

f. E-Mobility and Smart Transportation

g. Circular Economy and Sustainability

Key Collaborative Activities

The focus of these international collaborations is multi-dimensional, involving:

a. **Joint Research and Paper Publications:** Faculty and students co-author research papers in reputed journals and conferences, enhancing the global research footprint.

b. **Execution of Funded Projects and Consultancy:** Joint project execution with international partners, including industry-supported initiatives and consultancy assignments.

c. **Certificate Programs and Skill Development:** Hosting international certification programs, technical workshops, and short-term training in cutting-edge domains.

d. **Student Internships and Project Work:** Opportunities for students to undertake research projects and internships abroad, providing international exposure and industry experience.

e. **Faculty Exchange and Sabbaticals:** Facilitating academic exchange and sabbatical programs for faculty members to engage in teaching, research, and collaborative development overseas.

Conferences and Joint Programs: Co-hosting international conferences, symposiums, and academic programs to promote dialogue on emerging global challenges and technologies.

1.9 ENVIRONMENT & SUSTAINABILITY

RVCE's vision focuses on 'sustainability' and accordingly explores, initiates & addresses environmental issues with a clear-cut direction on 3Rs (i.e., Reduce, Reutilize, Recycle). Thus, aiming at conservation of resources and also gainfully harnessing renewable energy/ rainwater etc. In addition to making all out efforts in building awareness amongst the students & staff about the effect of our activities on the environment, Proactively the Institute is involved in a number of projects on alternate use of wastes or creation of new products.

The Institute has strong industry linkages with various firms for better exploitation/management of vital resources viz. i) KPMG for rain water harvesting, ii) PCB for air quality & noise monitoring, iii) ISRO for automatic weather monitoring etc. to name a few. As an environmental initiative, the Institute has introduced several courses on Environment in the curriculum at UG level. These include courses on Environment Technology, Biology for Engineers and Global Electives on Green Technology, Solid waste Management, Renewable Energy, air pollution control engineering, Water supply Engineering, Waste water Engineering, Industrial wastewater treatment, Environmental impact assessment, Hazardous waste management etc. Further to bring in awareness, the Institute also conducts programs like talks by experts in the field, conducting National/International conferences/workshops, street plays, panel discussions etc. that highlight emerging environmental issues and facilitate dialogue among key stakeholders.

Renewable resources exploitation efforts include installation of 500 KWP roof top solar power station and solar water heaters in all the Hostels, Rain Water Harvesting (RWH) system etc. The Institute has an excellent Waste Management System to collect, segregate and dispose of the waste generated.

1.10 GOVERNANCE

The Governing Body of the institution consists of academicians, policy makers, industrialists, philanthropists and nominated student members. This helps in balanced policy making, utilization of funds and student as well as staff welfare measures. The long-term plans have been laid down in the strategic plan document in consultation with Department committees, joint workshops of senior professors for strategy formulation. The Institutional Monitoring, Planning and Policy Implementation Committee (IMPPIACT) consists of HoDs, Deans & Associate Deans, who are responsible for continuous improvement through identifying needs, bringing in discipline, defining academic & research activities, future plans etc. Various Deans viz. Academic, Student Affairs, R&D and PG Studies are responsible for implementation, outcomes and improvements in their respective areas of responsibility at the institutional level. Feedback systems are in place to know about the gap that exists in the current academic and other practices to identify opportunities for continual improvements in the institutional processes and practices and the monitoring is through IQAC. Also SAP-ERP implementation for smooth administration.

Mobile apps are developed for purchase and leave management. The institution has established a sound value system in terms of human resource policies and service rules for the employees implemented with no discrimination. SAP ERP package is implemented for Modules such as - Finance & Controlling (FICO), Human Cost Management (HCM), Materials Management (MM), Success Factor involving Leave Management System (SF) and Student Life Cycle Management (SLCM). The college currently has student strength of about 5700, faculty strength of around 370, Technical & Administrative Staff around 230 and about 360 Research Scholars are pursuing Ph.D.

1.11 PROGRAMS OFFERED BY THE INSTITUTION

(A) UNDERGRADUATE PROGRAMS

Sl. No.	Program	Year of Starting	Branch code
1	B.E. in Civil Engineering	1963	CV
2	B.E. in Mechanical Engineering	1963	ME
3	B.E. in Electrical & Electronics Engineering	1963	EE
4	B.E. in Electronics & Communication Engineering	1972	EC
5	B.E. in Industrial Engineering & Management	1980	IM
6	B.E. in Electronics & Instrumentation Engineering	1981	EI
7	B.E. in Chemical Engineering	1982	CH
8	B.E. in Computer Science & Engineering	1984	CS

Sl. No.	Program	Year of Starting	Branch code
9	B.E. in Electronics & Telecommunication Engineering	1992	ET
10	B.E. in Biotechnology	2002	BT
11	B.E. in Aerospace Engineering	2015	AS
12	B.E. in Artificial Intelligence & Machine Learning	2021	AI
13	B.E. in Computer Science & Engineering (Data Science)	2022	CD
14	B.E. in Computer Science & Engineering (Cyber Security)	2022	CY

(B) POSTGRADUATE PROGRAMS

Sl. No.	Program	Year of Starting	Branch Code
1	Master of Computer Applications	1997	MCA
2	M.Tech in Product Design & Manufacturing	2004	MPD
3	M.Tech in Digital Communication	2004	MDC
4	M.Tech in Computer Science & Engineering	2004	MCE
5	M.Tech in VLSI Design & Embedded Systems	2005	MVE
6	M.Tech in Computer Network Engineering	2005	MCN
7	M.Tech in Machine Design	2006	MMD
8	M.Tech in Communication Systems	2006	MCS
9	M.Tech in Power Electronics	2006	MPE
10	M.Tech in Structural Engineering	2006	MST
11	M.Tech in Software Engineering	2006	MSE
12	M.Tech in Information Technology	2007	MIT
13	M.Tech in Highway Technology	2009	MHT
14	M.Tech in Biotechnology	2011	MBT

(C) RESEARCH CENTERS

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

Sl. No.	Program	Year of Starting
1	Mechanical Engineering	1999
2	Chemical Engineering	2000
3	Electronics & Communication Engineering	2004
4	Industrial & Engineering Management	2004
5	Electronics & 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	Aerospace Engineering	2024

(D) DIPLOMA (UG & PG) AND CERTIFICATE COURSES /PROFICIENCY COURSES

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.

2. ADMISSION PROCESS

2.1 ELIGIBILITY RULES FOR B.E. PROGRAM

The basic qualification for eligibility for admission to B.E. programs is two year Pre-University or 12th Standard or equivalent examination (hereinafter referred to as the Qualifying Examination or Q.E). The candidate should have taken Physics and Mathematics as compulsory courses along with Chemistry / Biotechnology / Computer Science / Biology / Electronics as optional courses and English as one of the languages of study in the Q.E. Further, the candidate should have passed the Q.E with an aggregate minimum of 45% marks in the optional courses in the Q.E (40% of marks in Q.E in case of SC, ST & OBC Category candidates) for eligibility. The marks obtained by the candidate in Biotechnology / Computer Science / Biology / Electronics in the Q.E., will be considered in place of Chemistry, only for the purpose of determination of eligibility and not for the purpose of determination of rank, in respect of Engineering program.

2.1.1 Eligibility for Admission under Government Quota

The SC/ST/OBC eligibility criteria is applicable to persons of Karnataka origin who are claiming eligibility for Government Seats under clauses (a), (b), (f), (H) (G), (K) and (0) and the same is not applicable to clauses (c), (d), (e), (g), (i) and (m) of item-7 of chapter-1. (Source: CET Brochure: 2021). For more details log on to the KEA website http://kea.kar.nic.in/cet

The institute may admit candidates belonging to Scheduled Castes, Scheduled tribes and any other groups as per the guidelines issued by Government of Karnataka / AICTE / VTU from time to time.

2.2 LATERAL ADMISSION OF STUDENTS TO B.E. PROGRAM

Students with Diploma qualification are admitted to B.E. Degree Programs in respective specializations to the second year, as per the guidelines issued by Government of Karnataka / AICTE / VTU from time to time.

The admissions are as per the GoK norms through KEA. (http://kea.kar.nic.in/cet/**)**

2.3 PROGRAM DURATION

a. The total duration of an academic program is Four years for B.E. and Three years for the students who join B.E. under the lateral entry scheme.

b. The maximum period which a student can take to complete a full-time academic Bachelor program in case of B.E. is **Eight (8)** years and **Six (6)** years in the case of lateral entry.

2.4 TRANSFER OF STUDENTS (PROGRAM / COLLEGE):

a. Program transfer will be granted as per AICTE / VTU norms. Applicant will be eligible for transfer only in the III Semester, provided he/she has successfully cleared all the courses of I and II

b. Semesters. These transfers are purely on merit and subject to availability of vacant seats in programs to which transfer is sought for. **Such transfers can be given, provided the**

minimum strength in the parent program from which transfer is sought does not fall below 75% of intake. For example: If the approved intake is 60 in a program the college is permitted to provide transfer only if class strength is greater than 45 (forty-five) at the time of counseling for transfer.

c.   The Institute may admit students from other Institutes / Universities to ODD semester only (3rd or 5th). Such admissions will be according to the directions and guidelines issued by appropriate authorities VTU/AICTE / Govt. of Karnataka from time to time and will be governed by the transitory rules and regulations of the Institute.

d.   Only such candidates who have completed all the courses of equivalence shall be eligible for such transfers. In case a candidate is found to have short fall of equivalence credits he/she will have to audit such courses in addition to all the courses prescribed by the Academic Council for that program.

3. ACADEMIC PLANNING

3.1 ACADEMIC PLANNING FOR ENGINEERING

a. The curriculum is designed as per OBE and shall include General Engineering courses, Basic Science, Humanity & Social Sciences, Core Professional Engineering, Professional Electives and Global (Open) Electives and Project works.

b. The percentage distribution / coverage of courses are as per the guidelines given by VTU / UGC / AICTE and Ministry of Education, New Delhi.

c. Individual Board of Studies (**BoS**) for each department takes care of formation of Scheme and Syllabus. The same is then approved by the Academic Council (AC) of the Institution.

d. There shall be an equal emphasis on theory, practical / laboratory and workshops.

e. Emphasis is also given for Self-study and experiential learning.

f. Additions and deletions of any particular course have to be recommended by respective BoS and approved by the Academic Council of the Institution.

g. Exclusive major projects and minor projects are also included in the curricula.

h. Many interdisciplinary courses and global electives are also offered and a student can choose from these as per his/her interest.

i. All students have to undergo **Continuous Internal Evaluation (CIE) which** includes Tests, Quizzes, Experiential learning.

j. At the end of the semester eligible students have to take Semester End Examination (SEE) for both theory and practical as per the scheme.

CALENDAR OF EVENTS: Academic Calendar will be prepared before the commencement of the academic year and published in the college website (www.rvce.edu.in)

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

Saturday: 9:00 AM to 1:45 (Only on 2nd, 4th and 5th Saturday of the month)

Table 3.1 Academic Calendar

Number of Semesters/years	Two Main semesters (*Odd, Even*) and a supplementary/summer semester
Semester Durations (Weeks)	Main semesters (*Odd, Even*):19 weeks each **(16 weeks of Academics & 03 weeks of exams)** Supplementary semester: 08 weeks **(08 weeks of Academics & One / Two weeks of Exams)**

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.

INDUCTION PROGRAMME: The All-India Council of Technical Education (AICTE) in its recent guidelines has made it mandatory to conduct a 3 weeks induction program for first year students.

Following the guidelines, at RVCE we have proposed to have **TWO** weeks of program in **FIRST** semester and **ONE WEEK** of program in **SECOND** semester.

The main concern and responsibility of institutions imparting higher education is to develop manpower of well-trained engineers with sensitized concern towards oneself, one's family, society and nation at large. Students, who enter the professional course, need to acclimatize to the new environment, set a healthy daily routine, create a bonding between the teacher and a student, develop awareness, sensitivity and understanding of the self, society at large and inculcate in them the ethics of the institution with a sense of larger purpose. The graduating student should have knowledge and skills in the area of his study. Character needs to be nurtured as an essential quality by which he/she would understand and fulfill his/her responsibility as an engineer, a citizen and a human being. The idea of introducing an induction program in the curriculum is to equip the students with communication skills and get them acquainted with the culture of the institution and human values. A student must undergo this induction program after joining the institute and before the commencement of classes.

3.2 SEMESTER REGISTRATION/ DROPPING / WITHDRAWAL OF COURSES

a. <u>Every student has to register in person</u> at the beginning of every semester as per the notification issued by the office of the Dean Academics from time to time. Such students, who do not register within one week from the date of commencement of the semester, <u>shall not be eligible to take up that particular semester</u>. 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/Dean Academics / Dean Student Affairs / Head of the department, RVCE, in advance, indicating the reason for delay in registering. However, for such students also, the attendance requirement shall be calculated from the date of commencement of the semester and not from the date of reporting to Institution.

c. A student may be barred from registering for a semester for specific reasons for not registering, non-payment of fees, not eligible for the current semester due to lack of earning enough credits etc.

d. Dropping of Courses: A student can drop a course under the guidance of the counselor in the specified period (after one month from the date of commencement of the semester) 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 through the HoD & counselor 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. Dropping of the course is not treated as attempt; student must re-register for that course after 8th semester of the program. The dropped courses are not recorded in the Grade Card.

   Note:

   1. If a candidate drops a course, then that particular course has to be taken up only in regular semester but not in fast-track.
   2. **This facility is not applicable for first year students.**

e. **Withdrawal from Courses**: A student may opt to withdraw from a course on or before the date specified (normally one month before the end of semester) in the calendar of events. Such students who want to utilize this facility have to submit an application through the HoD to Dean Academics, in consultation with counselor, parent and HoD of the respective department.

The candidate should have fulfilled the attendance criteria (for the course/s that he / she want to withdraw). **The withdrawn course(s) are recorded in the Grade Card as 'W' grade.** However, such withdrawals will be permitted without prejudice to the minimum number of credits as specified in (d). **This facility is not applicable for first year students. Such of those students, who have been declared "W" grade have to re-register during supplementary semester and earn both attendance & CIE and clear semester end examination.**

Note : * 'W' Grade is treated as an attempt.

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, RVCE 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 Principal duly endorsed by Dean Student Affairs and Dean Academics. 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 **NE (Not Eligible for Appear SEE)**.

b. If a student does not fulfill the attendance requirements in any course, he/she is not permitted to attend the Semester End Examination in that particular course.

3.4 TEMPORARY BREAK OF STUDY FROM THE PROGRAM

a. A student shall be permitted to withdraw temporarily on grounds like prolonged illness, grave calamity in the family or any other serious happenings, if a candidate intends to temporarily discontinue the program in the middle for valid reasons (such as accident or hospitalization due to prolonged ill health, grave calamity in the family or any other serious happenings) and wants to rejoin the program later in respective semester, he / she shall apply to the Principal, RVCE well in advance. Such application shall be submitted within **at least 6 weeks** of the commencement of the semester or from the date he/she has not attended the classes, whichever is later, stating fully the reason for such a withdrawal, together with supporting documents and endorsement of his/her parents/guardians through the Head of the Department stating.

b. 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 (a) who have the possibility to complete the prescribed program requirements within the time limits specified by the university. (b) Who do not have any outstanding dues / demand at the college / University level including tuition fees, any other fees, library materials etc.

c. The candidate has to rejoin the semester after the break from the commencement of the respective semester as and when it is offered.

d. The total period for completion of the program 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 2.4(d). The maximum period includes the break period.

e. If any candidate is detained for any reason, the period of detention shall not be considered as

'Break of Study'.

f.   A student availing of temporary withdrawal under the above provision shall be required to pay such fees and/or charges as may be fixed by the college until such time as his/her name appears on the Students' Roll list. However, it may be noted that the fees/charges once paid shall not be refunded. Normally, a student will be entitled to avail of the temporary withdrawal facility only once during his/her studentship of the program. However, any other concession for the student shall have to be approved by the Academic Council of the College. Hence, the student shall take the advice of the Principal to use the above provision only in exceptional cases.

3.5   TERMINATION FROM THE PROGRAM

A student shall be required to withdraw from the program and leave the Autonomous College on the following grounds.

a.   Absence from classes for more than six weeks at a time in a semester without leave of absence being granted by the competent Authority.

b.   Failure to meet the standards of discipline as prescribed by the college from time to time.

3.6   CREDIT SYSTEM

a.   It is compulsory to implement a Choice Based Credit System for academic programs at all the Autonomous colleges under the university. This will be of considerable benefit to the students for customizing their programs of direct interest to them, developing their individual capabilities and talents and preparing them for exciting careers ahead in the 21st century.

b.   The Autonomous college shall provide for the followings:

Easy access to the schemes of Instruction, Syllabi, Credit structure of programs and the courses being conducted by all students (either in print or in electric form) so as to assist them in coursework planning.

Institution finalizing the conduct of course works by adopting a centralized time table for all the programs at a college, with a view to assist the students in customizing their programs and also optimizing the use of physical facilities. Establishing a dynamic Faculty Advisory System at each college with 5-10 students assigned to an Advisor, for guiding them in planning/implementing their course work in a flexible and effective manner and also monitoring them.

3.7   CREDITS REQUIREMENT FOR BE PROGRAM:

The total number of credits required to be earned by students to qualify for the various Degree/Certificate programs are given in Table 3.7.1.

Table 3.7.1 Total number of credits required to be earned by students

Program	Normal Duration Years (semesters)	Total No. of credits to be Earned (Average/Semester = 22)
UG Degree B.E.	4 years (8 semesters)	160
UG Degree B.E. (Lateral Entry, Students with Diploma)	3 years (6 semesters)	120

* 40 credits for the First Year B.E Programs common to all B.E Programs.

Table 3.7.2 Credit distribution for UG Program

SL. NO.	COURSE CATEGORY	CATEGORY	CREDITS RVCE
1	Humanities, Social Sciences, and Management Courses. (mandatory for all disciplines)	HSS	12
2	**Basic Science Courses (BSC):** Physics, Chemistry, and Mathematics. (mandatory for all disciplines)	BSC	23
3	**Engineering Science Courses (ESC):** Materials, Workshop, Drawing, and Basics of Electrical/ Electronics/ Civil/ Mechanical/ Computer Engineering, etc. (Mandatory for all disciplines)	ESC	22
4	**Professional Core Courses + Professional Electives** – Professional Core Courses and electives, relevant to the chosen specialization/ program	PCC	75
5	**Project Work:** Mini-project work, Major Project work & Internships carried out at the parent Institution / Company / Industry or any recognized organization without affecting the regular class work.	P&I	18
6	**Other Electives and Ability Enhancement Courses:** Universal Human Values, Indian Knowledge System, Yoga	AEC	10
Total			**160**

3.8 ACTIVITY POINTS FOR AWARD OF DEGREE

Apart from technical knowledge and skills, to be successful as a professional, students should have excellent soft skills, leadership qualities and team spirit. They should have entrepreneurial capabilities and societal commitment. In order to match these multifarious requirements, AICTE has created a unique mechanism of awarding Activity points over and above the academic grades.

Table 3.8.1 Activity Point Requirement

Sl. No.	Student category	Activity points prescribed by AICTE
1.	Day college regular student admitted to the 4 years Degree program	100 Points
2.	Student entering 4 years degree program through lateral entry	75 Points
3.	Students transferred from other Universities to fifth semester	50 Points

a. Duration of the program: anytime during the semester weekends and holidays, as per the interest and convenience of the student from the year of entry to the program. However, minimum hours specified must be satisfied;

b. Activity Points (non-credit) have no effect on SGPA/CGPA and shall not be considered for vertical progression;

c. The Activity Points earned shall be reflected on the students eighth semester Grade card;

d. In case students fail to earn the prescribed activity points, Eighth semester Grade Cards shall be issued only after earning the required activity points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade card.

e. The consolidated report of activity points earned by the students will be sent to the University. A notification in this respect will be issued by the Registrar (Evaluation), VTU, Belagavi.

Table 3.8.2 Following suggestive activities are to be carried out by students in teams as per their choice:

Sl. No.	Activity Head	Minimum duration		Performance appraisal/ Maximum points/activity
		Weeks	**Hours**	
1	Helping local schools to achieve good results and enhance their enrolment in Higher/technical/ vocational education.	2	80-90	20
2	Preparing an actionable business proposal for enhancing the village income.	2	80-90	20
3	Developing Sustainable Water management system.	2	80-90	20
4	Tourism promotion through innovative approaches.	2	80-90	20
5	Promotion of appropriate technologies.	2	80-90	20

Sl. No.	Activity Head	Minimum duration		Performance appraisal/
		Weeks	Hours	Maximum points/activity
6	Reduction in energy consumption.	2	80-90	20
7	To skill the rural population.	2	80-90	20
8	Facilitating 100% digitized money transactions.	2	80-90	20
9	Setting of the information imparting club for women leading to contribution in social and economic issues.	2	80-90	20
10	Developing and managing an efficient garbage disposal system.	2	80-90	20
11	To assist the marketing of rural produce.	2	80-90	20
12	Food preservation/ packaging.	2	80-90	20
13	Automation of local activities.	2	80-90	20
14	Spreading public awareness under rural outreach programs.	2	80-90	20
15	Contribution to any national level initiative of Government of India. For eg. Digital India, Skill India, Swachh Bharat Internship etc.	2	80-90	20

Evaluated by NSS / youth Red cross Co-coordinators / Chairperson – CICC (College Internal complaints committee) / SAGY (Sansad Adarsh Gram yojana, Govt. of India) of the institute/ Mentor.

4. EVALUATION SYSTEM

4.1 ASSESSMENT TESTING

a. Assessment testing will be done in two parts as follows, both of them being important **in assessing the student achievement:**

   i. Sessional, involving **Continuous Internal Evaluation (CIE)** will be conducted by the course teacher all through the semester. The evaluation process has three parts, executed by way of quizzes (Q), tests (T) and Assignment. The evaluation of assignment could be descriptive / analytical type assessment spread throughout the semester, weekly/fortnightly assignments, problem solving, group discussions and seminars depending on the course. CIE could also be evaluated by experiential learning, collaborative learning, project-based learning, problem-based learning, web-based learning, game-based learning, computer-support collaborative learning, mobile assisted learning and seamless puzzle-based learning. The tests have to be written in the official booklets. It is the student's responsibility to see and confirm the evaluation and marks obtained after each test. After ascertaining that he/she has obtained the marks as per the performance, the student shall sign in the blue book after each test.

   ii. Terminal Examination designated as **Semester End Examination (SEE)** will include a written examination for theory courses and practical/design examination including viva-voce for laboratory/exhibition based / design courses etc,. Controller of Examinations (CoE) in coordination with Dean Academics, and Board of Examiners implements the SEE process.

   - CIE and SEE will have **EQUAL (50:50) WEIGHTAGE.**

   - A student's performance in a course is judged by considering the performance in both CIE and SEE.

   - An average course load of 22 credits per semester with its **minimum and maximum limits being fixed at 16 and 28 credits** respectively will be followed as per the recommendation of BoS and Academic Council.

     SEE PRACTICALS

     Laboratory- 50 Marks

     Evaluation will be conducted as problem / project based learning, which is program / laboratory specific. Total SEE for laboratory is 50 marks.

b. In the credit system, both CIE and SEE will have equal (50:50) weightage. A student's performance in a course is judged by taking into account the performance in both CIE and SEE.

c. 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.

d. An average course load of 22 credits per semester with its **minimum and maximum limits being fixed at 16 and 28 credits** respectively will be followed as per the recommendation of BoS and Academic Council.

e. The number of credits is clearly defined in the scheme of study. All the students of B.E. are required to compulsorily register for all the courses prescribed for regular semester.

f. Faculty Advisors / Counselors will monitor the student's CIE performance; take necessary steps to advice the student accordingly. As a follow up of this, each student will be advised to continue with the average credits, drop of courses or withdraw from them **as indicated in 3.3 (d) and 3.3 (e).**

g. This would also help in planning the course load of students between the minimum of 16 and maximum of 28 credit limits in the successive semesters based on faculty advice and on their performance in CIE and SEE in the preceding semester and of CIE in the current semester.

h. Students who wish to accelerate the rate of accumulation of credits by registering up-to the maximum of 28 credits of course load and continuing with them in the ensuing regular semesters based on counselor's advice and Dean Academics along with the performance in CIE and SEE of the preceding semester. This shall be notified by the Dean Academics from time to time. <u>This facility will not be available for the first and second semester students.</u>

4.2 INTERNAL ASSESSMENT

4.2.1 Scheme of Continuous Internal Evaluation for the Theory Courses: Continuous Internal Evaluation (CIE): Total Marks: 40 + 20 + 40 = 100

Table 4.2.1 Scheme of Assessment Evaluation

RUBRIC FOR THE CONTINUOUS INTERNAL EVALUATION (THEORY)		
#	**COMPONENTS**	**MARKS**
1.	QUIZZES: Quizzes will be conducted in online/offline mode. TWO QUIZZES will be conducted & Each Quiz will be evaluated for 10 Marks. **THE SUM OF TWO QUIZZES WILL BE THE FINAL QUIZ MARKS.**	20
2.	TESTS: Students will be evaluated in test, descriptive questions with different complexity levels (Revised Bloom's Taxonomy Levels: Remembering, Understanding, Applying, Analyzing, Evaluating, and Creating). THREE tests will be conducted (Two regular tests and one optional improvement test). Each test will be evaluated for 50 Marks, adding upto 100 Marks. **FINAL TEST MARKS WILL BE REDUCED TO 40 MARKS.**	40
3.	EXPERIENTIAL LEARNING: Students will be evaluated for their creativity and practical implementation of the problem. Case study-based teaching learning (10), Program specific requirements (10), Video based seminar/presentation/demonstration (20) Phase 2 will be done in the exhibition mode (Demo/Prototype/any outcome). **ADDING UPTO 40 MARKS.**	40
	MAXIMUM MARKS FOR THE CIE (THEORY)	**100**

4.2.2 Scheme of Continuous Internal Evaluation for Courses With Integrated Laboratory, Continuous Internal Evaluation (CIE): Total Marks: 20 + 40 + 40 + 50 = 150

Table 4.2.2 Scheme of Assessment Evaluation

	RUBRIC FOR THE CONTINUOUS INTERNAL EVALUATION (THEORY + PRACTICE)	
#	**COMPONENTS**	**MARKS**
1.	QUIZZES: Quizzes will be conducted in online/offline mode. **TWO QUIZZES** will be conducted & Each Quiz will be evaluated for 10 Marks. Each quiz is evaluated for 10 marks adding up to 20 MARKS.	20
2.	TESTS: Students will be evaluated in test, descriptive questions with different complexity levels (Revised Bloom"s Taxonomy Levels: Remembering, Understanding, Applying, Analyzing, Evaluating, and Creating). TWO tests will be conducted. Each test will be evaluated for 50Marks, adding upto 100 Marks. **FINAL TEST MARKS WILL BE REDUCED TO 40 MARKS.**	40
3.	EXPERIENTIAL LEARNING: Students will be evaluated for their creativity and practical implementation of the problem. Case study based teaching learning (10), Program specific requirements (10), Video based seminar/presentation/demonstration (10) Designing &Modeling (10) Phase 2 will be done in the exhibition mode (Demo/Prototype/any outcome). **ADDING UPTO 40 MARKS.**	40
4.	Conduction of laboratory exercises, lab report, observation, and analysis (40 Marks) and lab test (10 Marks) adding up to 50 Marks. **THE FINAL MARKS WILL BE 50 MARKS**	50
	MAXIMUM MARKS FOR THE CIE (THEORY AND PRACTICE)	**150**

4.2.3 Scheme of Continuous Internal Evaluation for Laboratory only Courses Continuous Internal Evaluation (CIE): Total Marks: 40 + 10 = 50

Table 4.2.3 Scheme of Assessment Evaluation

	RUBRIC FOR THE CONTINUOUS INTERNAL EVALUATION (LAB)	
#	**COMPONENTS**	**MARKS**
1.	Conduction of laboratory exercises, lab report, observation, and analysis **(30 marks)**, lab test **(10 Marks)** and Innovative Experiment/ Concept Design and Implementation **(10 Marks)** adding up to **50 Marks**.	50
	MAXIMUM MARKS FOR THE CIE (THEORY)	**50**

4.2.4 Assessment of MOOC Courses:

a. 'No Certificate' from NPTEL is considered as "F" grade in MOOC course. Such a student have to re-register for the course in NPTEL / SWAYAM platform only. The failed course must be cleared / passed in ONLINE mode only.

b. The candidate is permitted to change the MOOC course in his second attempt. The changed course will be from the basket of courses, already identified/offered by the department. In case none of the courses in the basket is offered by NPTEL in the upcoming semester, the respective BoS may propose an alternative course with same credits and complexity out of bunch of courses available on NPTEL portal, with the approval from the Office of Dean Academics.

c. The candidate must register and complete the course in ONLINE MODE ONLY.

4.3 GRADING SYSTEM

Absolute Grading system on 10-point scale is followed in the evaluation of student's performance in a course.

a. **LETTER GRADES:** Letter grade is basically a qualitative measure (an alphabet/letter) giving the performance of a student, such as, **Outstanding (O)**, **Excellent (A+)**, **Very Good (A)**, **Good (B+)**, **Above Average (B)**, **Average (C), Pass (P)** 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**.

b. The range of marks for each letter grade shall be as given in the following Table 4.3.

Table 4.3 Grading System

Level	Out standing	Excellent	Very Good	Good	Above Average	Average	Pass	Fail
Score (Marks) Range %	90-100	80-89	70-79	60-69	55-59	50-54	40-49	0-39
Grade	O	A+	A	B+	B	C	P	F
Grade Points	10	9	8	7	6	5	4	0

c. **GRADE POINTS:** Depending on the letter grades assigned, a student earns certain grade points. In the 10-point grading system, the grade points earned for different letter grades are given in **Table 4.3**.

d. 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:

$$SGPA = \frac{\left[\sum \begin{array}{l}(\text{Course Credits}) \text{ x } (\text{Grade Point/s})] \text{ for all the course registered by}\\ \text{the student, excluding transitional grades, in that semester.}\end{array}\right]}{\left[\sum \begin{array}{l}(\text{Course Credits}) \text{ for all the courses registered by the student}\\ \text{excluding transitional grades, in that semester.}\end{array}\right]}$$

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

$$CGPA = \frac{\left[\sum \begin{array}{l}(\text{Course Credits}) x (\text{Grade Point/s}) \text{ for all the courses registered by the}\\ \text{students excluding F grades until that semester.}\end{array}\right]}{\left[\sum \begin{array}{l}(\text{Course Credits}) \text{ for all the courses registered by the student}\\ \text{excluding F grades, in that semester.}\end{array}\right]}$$

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).

e. **Transitional Grades:** The transitional grades, such as 'I', 'W' and 'X' shall be awarded to a student in the following cases. These shall be converted into one or the other of the letter grades (**O-F**) after student completes his/ her course requirements, including examinations.

f. **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 severe illness or accidents, which disable him/her from attending SEE.

g. 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.

e. Any other matter 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.

h. The candidates cleared the courses awarded with I grade later in the make -up examinations are treated as attempt except the case indicated in 4.2G.

GRADE 'W': Awarded to a student having satisfactory attendance at classes but withdrawing from that course before the prescribed date in a semester under the advice of counselor and HoD, forwarded to the Dean Academics for approval.

GRADE 'X': Awarded to a student having attendance (> = 85%) and CIE marks > = 90% in a course, but SEE performance observed to be 'F', which could result in an overall F grade in the course.

   a. **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.

4.4 PASSING STANDARDS

   a. The Standard of passing in each course is given in the following Table 4.4

Table 4.4 Passing standards

Passing Standard for Theory Course	CIE > = 40% and SEE > = 35%. Aggregate 40%
Passing Standard for Laboratory/ Project work	CIE > = 40% and SEE > = 35%. Aggregate 40%
Passing Standard for courses having both Theory and laboratory components	CIE: Theory > = 40%, Lab > = 40 % SEE: Theory >= 35%, Lab >= 35% and Aggregate of >= 40% (Theory and Lab together)

   b. **There shall be no re-examination for any course in the credit system** to take care of such students;

      i. Who have absented themselves from attending CIE or SEE without any valid reason;

      ii. Who have failed (Grade F) to meet the minimum passing standard prescribed for CIE and / or SEE;

      iii. Who have been detained for shortage of attendance in any course work;

      iv. Who have withdrawn (Grade W) from a course.

Students having Grade DX (NSSR/NSAR) shall be required to re-register for the course(s) and go through CIE and SEE again and obtain a Grade E or better in each case. While such students shall have to re-register for the same course(s) if hard core, they can re-register for alternative course(s) from among the soft core or elective courses, after successive four attempts, as the case may be. The re-registration shall be possible only when the particular course is offered again either in a main (Odd/Even) or a supplementary semester (Fast-track Semester).

4.5 A) SUPPLEMENTARY EXAMINATION

      i. The students who have satisfied CIE and Attendance requirements for the course/s and obtained F grade in SEE are permitted to appear directly in SEE examination/s as backlog paper/s. The students need not re-register for such course/s in the supplementary / fast track semester.

      ii. The student who obtains required attendance and CIE in supplementary semester, but obtains 'F' grade in SEE, is permitted appear for SEE subsequently as backlog course/s. The student need not repeat course for Attendance and CIE.

B) Supplementary/FAST TRACK SEMESTER

i.   The course/s for which the student does not possess satisfactory attendance / CIE score, shall be marked as DX in the Grade sheet. Such students are not permitted to take up SEE for the courses marked as DX in Grade Sheet. The students have to re-register only for course/s marked as DX in supplementary/ Fastrack semester whenever that course is offered and obtain the required CIE and attendance. Subsequently, they are eligible to appear for SEE in such course/s.

ii. Courses with Transitional Grade Viz "W", "I" and "X" are also eligible to register in supplementary semester (refer 4.2e for definition of these grades).

iii. All courses may not be offered in the supplementary semester. It is the discretion of the institution to offer the courses based on the availability of resources. The institutes shall notify time table for supplementary semester well in advance.

iv. Supplementary semester is optional and it is for the student to make best use of the opportunity. Supplementary semester is a special semester and the student cannot demand it as a matter of right.

v.   A student is permitted to register for a maximum of 14 credits in Fast track/Supplementary semester.

vi. **When to offer Fasttrack / Supplementary semester:** For student of UG program Fasttrack/supplementary semester is offered at the end of every even semester.

C) MAKE-UP EXAMINATION

i.   Make-up examination facility is available to those students who have missed SEE in one or more course in a semester and has been declared with sufficient justification as' **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 Examinations normally 10 days after the announcement of the results of that semester. In all these cases, the standard of the Make-up Examination shall be the same as that of the regular SEE for the Courses.

ii. There shall be no Make-Up examination for Fast track semester.

iii. 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).

iv. *No make-up examination will be applicable for Online MOOC Courses.*

4.6 SCHEDULE OF EXAMINATIONS

The Controller of Examinations will announce the schedule for the SEE, Makeup and Fast Track examinations. Examinations in an academic year conducted in the following order:

a.   SEE at the end of odd semester

b.   Make-up examination after odd semester

c.   SEE at the end of even semester

    d.   Make-up examination after even semester

    e.   Fast Track Semester at the end of even semester SEE as per 4.4(B)

4.7 VERTICAL PROGRESSION (PROMOTION TO NEXT ACADEMIC YEAR)

    a.   Students must fulfill the attendance and CIE requirement to appear for SEE of course/s of I year.

    b.   Students having backlogs of more than sixteen credits in total in the I and II semesters of the first year of the program shall not be eligible to move to the 3rd semester (II year) of the program. These courses also include courses marked as DX and MP.

    c.   Any number of F grades are permitted to carry till the 7th semester from 3rd semester onwards.

    d.   Before entering to VII semester, all the I year courses should be completed.

4.8 PAPER VIEWING PROCESS (PVP) applicable to all SEE except LAB examinations.

Paper Viewing Process (PVP) has been implemented for both UG and PG programs. After the provisional results are announced, the candidate can view his/her SEE answer scripts. The candidate shall register for PVP and during PVP he/she can give his/her grievance in writing in the prescribed format. Then the answer scripts evaluated once again based on the grievance of the student by an expert committee. Paper viewing process is final and this eliminates issue of Photostat copying of answer scripts, re-valuation and challenge valuation.

PVP INVOLVES THE FOLLOWING STEPS

STEP – I: REGISTRATION FOR PVP

The registration dates will be announced by the CoE office once the provisional results have been announced. For each course/s for which the student wishes to verify the answer script, the student needs to register for the course in the prescribed format.

STEP – II: SCHEDULE FOR PVP

The schedule to view the answer scripts will be announced and the student should be present personally to view the answer scripts. During this time, the student will be provided with a grievance form along with the evaluated answer script with marks awarded, scheme of valuation and solution. The students should provide the specific grievance question wise and only those grievances will be addressed.

STEP – III: VALUATION BY EXPERT TEAM

The grievance forms will be verified and each answer script applied for PVP will be evaluated by an expert team and if any change in the marks awarded is found, then better of the marks shall be considered for final grading. No negative evaluation in PVP.

4.9 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 related or not related to the concerned course of exam; Possession and /or use of mobile phones or any other

electronic gadgets, revealing identity in the answer scripts, destroying evidence of malpractice, impersonation, misbehavior, misconduct or any other malpractice related to examination).

The candidate shall be required to appear before the malpractice investigating committee. 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. In such cases, the said course will be awarded with a credit of '0' (Zero) with the grade 'MP' for the calculation of SGPA.

4.10 REJECTION OF RESULTS

A student is permitted to reject the results of an entire semester (including CIE) only once during the program duration. The student, 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 student will have to represent to the Principal in writing with the concurrence of the parent. Rejection of the result is not permitted to the students who have grade 'MP' in the respective semester until the compliance of penalty and punishment is cleared. However, rejection performance of project work and internship is not permitted.

4.11 GRADE CARDS

Each student will be issued a grade card at the end of odd and even semester as well as fast track 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. Only those courses registered for credit and having grade points shall be included in the computation of the student's performance like SGPA and CGPA and the audit courses will not form part of this computation. The result of mandatory courses, which are of the noncredit type, will also be reflected in the grade card. It may be noted that each student shall have to obtain at least **grade** P **or higher** (pass grade) **in each mandatory course to qualify for the award of degree by the university**.

4.12 PERCENTAGE EQUIVALENCE OF GRADE POINTS (ON 10 POINT SCALE)

The Equivalence of CGPA with the percentage of marks to be considered for equivalence in the conventional system for students coming from colleges affiliated to VTU to autonomous colleges is as follows:

Conversion of CGPA in to percentage of marks and class equivalence, there is no formula for the conversion of CGPA into the percentage of marks. However, the

following table may be referred for the conversion of the CGPA on 10-point scale into the percentage of marks for employment / higher studies, etc.

Percentage = CGPA x 10

Example: for CGPA of 8.54 the equivalent % of marks is 8.54 x 10 = 85.4%

4.13 RECOMMENDATIONS FOR DEGREE AWARD:

a. Each autonomous institution shall forward its recommendations to the university in respect of students qualifying for UG/PG based on their success in the examinations / adjudication of theses as the case may be after receiving approval from the authorities / Bodies of the college concerned.

b. The University will verify the list of students submitted by the college for the award of and then confirms/accords approval for the award of degree. Only after confirmation from the university, the college can issue Provisional Degree Certificate & Transcripts to the students.

c. The university reserves the right to withdraw degree even though it has been granted, should there be discovery that the work upon which it was based or the academic records in support of it had been falsified. In such a case the degree will be withdrawn promptly upon discovery of the falsification. Alao. Punitive Actions will be initiated as per the university statutes of VTU.

4.14 GRADUATION CEREMONY

a. The college will have its own annual Graduation ceremony for the award of Degree/Provisional Degrees to students, completing the prescribed academic requirements in each program 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.

   i. ***Declaration of the "CLASS" for the degree shall be based on the performance of the candidate from III to VIII for Lateral entry B.E. Candidates and from I to VIII Semester taken together for B.E. regular students.***

   ii. *A candidate will be declared to have obtained First Class with Distinction if the student has passed in all courses in one /multiple sittings and secured not less than 7 CGPA (70%).*

   iii. *A candidate who has passed in all the courses of I to VIII semesters in one / multiple sittings securing not less than 6 CGPA (60%) but less than 7 CGPA (70%) shall be declared to be eligible for the award of B.E. Degree in First Class.*

   iv. *A Candidate who has passed in all the courses of I to VIII semesters securing not less than 5 CGPA (50%) but less than 6 CGPA (60%) shall be declared to be eligible for the award of BE degree in Second Class.*

   v. *A Candidate who has passed in all the courses of I to VIII semesters securing not less than 4 CGPA (40%) but less than 5 CGPA (50%) shall be declared to be eligible for the award of BE degree in Pass Class.*

4.15 AWARD OF RANKS:

a. Rank shall be awarded to a maximum of 10% of the approved student intake. However, the maximum number of ranks awarded shall not exceed 10 and not less than 5 in each program.

b. Student appearing for Makeup / Fast track and any subsequent examinations in any credit or audit course/courses during the program shall not be eligible for the award of ranks except as indicated in 4.2G.

c. Only students who complete the program in four consecutive years for B.E. (regular students), three consecutive years for B.E. (lateral entry diploma students) are eligible for consideration for the award of ranks.

d. For the award of rank for B.E. students, CGPA shall be calculated from I to VIII semester

and in the case of lateral entry diploma students CGPA shall be calculated from III to VIII semester.

e. The basis for declaring the rank shall be the CGPA (without gracing) in the descending order of merit from the highest CGPA.

f. CGPA shall be calculated to the second decimal position.

g. Students with CGPA of >=6 (Equivalent to First Class) or above are eligible for consideration for rank.

h. If two students got 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 'O' to 'P' till the tie is resolved. If the tie is still unresolved, the students with similar CGPA will be awarded the same rank.

5. 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 BE (HONORS)

An increasingly interconnected global economy as a result of globalization is creating collaborative opportunities and competitive pressures requiring broadly educated engineers and business professionals. Also, the next generation engineers have to practice an interdisciplinary approach to problem solving.

To encourage and groom engineering students during their engineering program to become self-motivated independent investigators, critical thinkers and problem solvers, good communicators, effective managers and lifelong learners, AICTE has introduced a scheme wherein a student has to earn 18 or more additional credits through Massive Open Online Courses (MOOCs).

To cater the engineering skill requirements of the next generation due to continuously changing expectations of the industry, society and global stakeholder community owing to technology growth and globalization, RVCE intends to equip its students with interdisciplinary knowledge. By introducing this scheme, RVCE is one of the first few technical institutions to implement a few objectives of NEP 2020 with immediate effect.

The objectives of decorating the students with superior academic ability with Honours are to:

a. Encourage the advanced levels of study and multidisciplinary learning

b. Specialize in a focused area of your interest

c. Learn new skills and methodologies pertaining to your areas of interest

d. Cultivate a sustaining interest in advanced education and research

e. Gain recognition at the time of graduation for advanced, distinguished work as an undergraduate

Eligibility Criteria forRegistration

Every student of the university intending to register for the 'Honours' qualification shall fulfil the following academic requirements:

a. **Registration** to 'Honours' qualification shall start from **fifth semester onwards.**

b. The students should have obtained a **grade>=B** in **all the courses** in **first attempt only**, in the **fifth semesters.**

c. The students should have obtained a **CGPA > = 7.50** at the **end of fourth semester.**

d. **Lateral Entry Diploma** students shall have **completed the Bridge Course: Mathematics during 3rd and 4th semesters in first attempt only**.

Registration Procedure

a. Any students meeting the above criteria and intending to register for the Honours qualification shall apply to the University **through the Principal** of his/her college in the **prescribed form**

along with the application fees within 15 working days after notification by the University.

b. **No limit on the number of students registering for the award of Degree of B.E Honours.**

c. The **Registrar shall notify the list of registered students within 15 working days on the University Notice Board and send the copies to Colleges prescribed.**

d. The **registered students should pay a one-time Non-Refundable fee** as prescribed by the University to confirm the registration;

Additional Coursework

a. **In addition to the courses (prescribed in respective program) to be completed from fifth semester to eight semester, the student has to complete the online courses as notified by the university, offered by NPTEL or any other MOOC courses and complete the courses irrespective of the number of attempts with final score (Online Assignments: 25% and Final Exam:75%) leading to NPTEL Elite(60 to 75%)/Elite + Silver (76 to 89%)/Elite + Gold (> = 90%).**

b. **The student shall be permitted to drop the registered coursework & select alternative coursework in case they do not appear for the proctored exam or do not complete the proctored exam.**

c. **The University shall announce the BoS approved list of MOOC Courses corresponding to each engineering program. The University shall have the freedom to review and approve additional online courses from time to time.**

d. **The student shall choose the number of online courses with credits summing up to 18 or more credits from the list of approved online courses.**

e. **No Autonomous/Non-Autonomous college under the university shall conduct the exam for these online courses and award 18 or more credits to confer B.E Honours.**

Table 5.1 Assigned Credits for Online courses

Assigned Credits	
Online Course Duration	**Assigned Credits**
04 Weeks	1
08 Weeks	2
12 Weeks	3

Award of Honours Qualification:

a. All students who **successfully complete the online courses** as prescribed by the University and **submit the certificates** to the University through the Principal of his/her college against notification issued by the Registrar (Evaluation) on time before **closure of eight semester as per the calendar of events** shall qualify for B.E (Honours).

b. The **student failing to maintain a Grade>=D in all the courses from fifth to eight semester in first attempt shall be discontinued the attempt to earn the additional credits**

c. The student not having a **CGPA >=7.50**at the end of the program shall not be eligible for the award of Honours even if they have earned the additional credits prescribed for the Honours Degree.

5.2 BE (MINOR)

A minor is a secondary field of study that undergraduate students can pursue in addition to their major. While the major is the primary focus of a student's academic program and is usually chosen based on career goals and interests, a minor provides an opportunity to explore another area of interest in a more limited fashion. To enhance employability skills and impart deep knowledge in emerging areas that are usually not covered in the Undergraduate Degree credit framework, AICTE has come up with the concept of a **'Minor Degree'** in emerging areas. A **minor Degree will carry 18 credits** in addition to the credits essential for obtaining the Under Graduate Degree in Major Discipline (i.e. 160 credits for regular students and 120 credits for lateral entry students).

Objectives:

a. The key objectives of offering B.E., with Minor programs are:

b. To enable students to pursue an allied academic interest in contemporary areas

c. To expand the domain knowledge of the students in one of the other branches of engineering.

d. To provide an academic mechanism for fulfilling the multidisciplinary demands of industries.

e. To increase the employability of undergraduate students, keeping in view better opportunities in interdisciplinary areas of engineering & technology.

f. To offer knowledge in the areas that are identified as emerging technologies/thrust areas of Engineering.

g. Provides an opportunity for students to become entrepreneurs and leaders by taking a business/management minor.

h. Provides an opportunity for Applicants to pursue higher studies in an interdisciplinary field of study.

i. To increase the overall scope of the undergraduate degrees.

I. Eligibility for Registration:

a. Registration for a Minor degree shall start from the fourth semester of the B.E. program.

b. A student can opt for only one minor program along with the major (degree) program. No student shall be permitted to register for both honors as well as minors.

c. A student may choose to pursue a B.E. degree with a minor program if, at the time of registration, she/he has permissible backlogs up to the third semester under the regulations governing the B.E. degree and provided that the student's cumulative grade point average (CGPA) after the third semester does not fall below 5.0.

d. The minimum CGPA required to maintain up to the 3rd semester at the time of registration and at the time of completion of the major (core) degree program is ≥ 5.0.

e. He/She shall complete all the required minor degree program courses and earn credits ≥ 18 before the completion (qualify) of the major degree program as per the Major degree regulations.

f. A student cannot earn the Minor after he/she has already earned a bachelor's degree by earning 160 credits (regular students) /120 credits Lateral entry students).

II. Procedure for Registration:

a. The students have to register online through https://qnline.vtu.ac.ina as on when university call for minor degree based on eligibility.

b. Click on the **Sign-in** button on the top Right Corner.

c. If the students are **New Users**, Click on **Create an account**.

d. **Fill** in your e-mail ID, Phone No, and Name and **Create a New Password**

e. Click Sign Up, Enter **OTP**.

f. **Login** by entering your e-mail ID and Password.

g. You will be taken to the student dashboard. Click on **Academics** on the top right corner then **Click on Apply for Minor Degree.**

h. Fill up the details and submit the form.

The College MOOC Coordinators for the Minor degree program will assist the student in the

a. Registration and autonomous colleges have to verify and approve the registrations.

b. The non-refundable **Registration fees of Rs.1000/-** shall be paid through the registration portal only. No other payment mode is accepted.

c. There shall be no limit on the intake for registration to B.E./B.Tech with Minor degree program.

d. The registrant shall abide by the regulations governing the award of 'Minor' at B.E./B.Tech. Degree programs and other norms and guidelines issued from time to Time.

e. The registrant has to take the examination through VTU portal only.

III. Examination

a. Examinations & Internal Assessments will be conducted by VTU through Online proctored mode.

b. One course is consisting of 100 Marks.

c. 50% is considered for Assignments and remaining 50% for External marks.

d. The Elite Silver and Elite Gold certificates are awarded to students who score above higher percentage thresholds, typically around 60-70% and 70% above respectively.

e. **Note:** After completion of the course student can take-up the exam with their preferred date and time slot from any location, it's a proctored online exam.

f. Students have one month from the end of the course to take the exam. If a student fails the final exam, they can retake the course immediately for the cost of the exam fee.

5.3 CONTINUING EDUCATION AND SKILL DEVELOPMENT

RV College of Engineering has consistently emphasized Skill learning as a vital part of engineering education. In this direction, the **Skill Labs** are designed to bridge the gap between theoretical knowledge and practical application, enabling students to gain hands-on exposure to industry-relevant tools, techniques, and practices. The initiative aims to cultivate technical competence, problem-solving ability, and innovation among students from diverse engineering disciplines.

The Skill Labs cover a wide spectrum of domains, ensuring holistic development. For instance, **Aerospace Engineering** students will strengthen their foundation through *Lathe Machining and Fitting*, while **AI & ML** learners will gain insights into *Data Analytics and Business Intelligence Tools*. **Biotechnology** and **Chemical Engineering** students will focus on *Water Treatment, Analysis, and Maintenance of Treatment Plants*, ensuring sustainability-oriented skills. **Civil Engineering** students will explore *Fusion 360 and Testing of Civil Materials*, while the **Computer Cluster** offers *IT Essentials and Web Essentials*.

In addition, students of **Electrical & Electronics Engineering** will work on *Solar Panel Installation and Maintenance*, and **Electronics & Communication** learners will practice *Consumer Electronics Repair*. Further, **IEM, Mechanical, and E&TC departments** will offer practical training in *Plumbing, Sheet Metal, Measurements, Networking, and Hardware Services*.

Through these multidisciplinary labs, RVCE reaffirms its commitment to nurturing skilled, industry-ready graduates.

Table 5.3: Details of Skill laboratory

SL. No	Department	Particulars
01	Aerospace Engg	Skill training Lab on Lathe Machining and Fitting
02	AI&ML	Data Analytics and Business Intelligence Tools Training
03	Biotechnology	Water Treatment and Analysis
04	Chemical Engg	Service and Maintenance of Water Treatment Plants
05	Civil Engg	Fusion 360 and Testing of Civil Materials
06	Computer Cluster	1. IT Essentials Skill Lab 2. Web Essentials Skill Lab
07	Electrical & Electronics Engg.	Solar Panel Installation, testing & Maintenance
08	Electronics and Communication	Consumer Electronics Repair
09	Industrial Engineering and Management	1. Plumbing Skill lab 2. Sheet Metal Workshop
10	Mechanical Engg	1. Basics of Measurement 2. Precision Measurement 3. Geometric Shape in Practice 4. Fluid Measurement 5. Physical Parameter Measurement Systems
11	Electronics & Telecommunication Engg	Basic Networking and Hardware Services

5.4 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.

1. IEEE Student Branch with Three societies
   - IEEE Communication Society
   - IEEE Power & Energy Society
   - IEEE Computer Society
2. International Society of Automation (ISA)
3. Computer Society of India (CSI)
4. Information Systems Audit and Control Association (ISACA)
5. Indian Institute of Chemical Engineers
6. Indian Concrete Institute (ICI)
7. American Society for Civil Engineers (ASCE)
8. Indian Institution of Industrial Engineers
9. Fluid Power Society of India (FPSI)
10. Indian Society for Heating, Refrigeration and Air Conditioning Engineers (ISHRAE)
11. Indian Society for Technical Education (ISTE)

5.5 SCHOLARSHIP FACILITY

RV College of Engineering facilitates the scholarship to all eligible candidates under Government, corporate, NGO and Alumni scholarships schemes. Around 2000 students are benefited by the scholarship schemes to the tune of ₹ 5 crores.

Below are the various Government agencies, corporate & NGOs offering scholarships to our students.

SL. NO.	General Scholarship from Private Agencies
1	Infosys Foundation Neralu, #1/2 (1878), 11th Main, 39th Cross, 4th T Block, Jayanagar, Bengaluru 560011.
2	OHM Jyothi Mumbai
3	Sitaram Jindal Foundation Jindal Nagar Tumkur Road, Bengaluru - 560073.
4	Swami Dayananda foundation
5	Smile Foundation, Buddy 4 study
6	Shri Keshatra Dharmasthalla Scholarship
7	M/s Enefra Unnati Foundation., No.7, Raj Classic, 2nd Floor, 1st Block, Dr.Rajkumar Road, Rajajinagar, Bengaluru - 560010.
8	M/s. Raghuvenda Singh Foundation
9	M/s. Devon Software Services Pvt.,
10	Prajapathi Community Service Foundation
11	EC Dept., Alumni Sponsored

	State and Central Government
1	KMDC Loan (For Minorities)
2	Bihar Student Credit card Scheme (Loan)
3	Karnataka State Arya Vysya/Brahmin Development Board SSP
4	Department of Agriculture (KSDA) SSP
5	SC Scholarship (Lower Income) TSWO SSP
6	ST Scholarship (Lower Income) TSWO SSP
7	SC/ST Scholarship (Higher Income) DTE SSP
8	Defence Scholarship DTE SSP
9	OBC Scholarship (Lower Income) BCM -SSP
10	Merit Cum Means for Minorities -SSP
11	Students with Disabilities NSP
12	ST Umbrella Scheme Arunachal Pradesh NSP
13	Central Armed Force PMSS -NSP
14	Central sector scheme MHRD -NSP
15	AICTE Pragathi -NSP
16	AICTE Sakshma / Swanath -NSP
	NGO Scholarships
1	Arunodaya Scholarship for TE & ECE Students(Means)
2	Sarthaka Trust
3	Foundation for Excellence
4	Raghuvendra Singh Foundation
	Alumni Scholarships
1	Alumni Association of RVCE
2	Alumni 1979 Batch of E&C
	Website Links
1	Education Loan PM-Vidyalaxmi Scheme : https://pmvidyalaxmi.co.in/
2	State & Central Government Scholarship Schemes • (SSP) https://ssp.postmatric.karnataka.gov.in/ https://klwbapps.karnataka.gov.in/ • (NSP) https://scholarships.gov.in/
3	Other State Scholarship Portal : • https://www.medhavikalyan.mp.gov.in/MMVY.aspx • https://ekalyan.cgg.gov.in/ • http://swportal.goa.gov.in/login.php • https://wbscc.wb.gov.in/

4	Other scholarships: 1) https://www.jrscholarship.org/ 2) Meritorious Girls : www.lilapoonawallafoundation.com www.smilefoundationindia.org https://www.buddy4study.com/

Students can contact placement@rvce.edu.in for the further details and applications (Corporate Scholarship), Mr. Veda Murthy, Scholarship section for Government scholarship.

5.6 LIBRARY & INFORMATION CENTRE

5.6.1 NETWORKING & DIGITAL LIBRARY SERVICES

Library is a consortia member of VTU for e - Resources, through which we are receiving the following e-Journal / e-Books: Springer Nature e – Journals / e-Books, Elsevier Science (Engg + CSE), e-Journals / e - Books, Taylor and Francis e-Journals/e-Books, ProQuest (Architecture and all Engineering and its Allied Branches Database), Emerald e- Journals/e-Books, Packet e- Books, New age e- Books. **Technology Platform:** Turnitin Anti-Plagiarism Software, Drillbit anti-Plagiarism software, and Knimus (Remote access).

These e- Journals can be accessed within the Campus through **https://rvce.edu.in//lib-journals** and at home Knimbus remote access. Skill Soft e - Books, IEEE Journals, Pearson e-Books, Wiley e-Books are Institutional subscribed resources, these can be accessed anywhere by using RVCE user ID and Password.

Library is also member of DELNET and is also making use of inter library loan facility provided by the DELNET, for borrowing on availability of books, manuscripts and journal papers in the library, and sending required library books to DELNET on request.

Web OPAC: The availability of books in main library and to check number of books borrowed by the reader can be accessed through any internet browser with the link **http://112.133.207.137/opac** **(Remote access)** and **http://172.16.2.117/opac** **(On campus).** This can be accessed from college as well as home.

Online access: IP enabled online access facilities for e-books and journals have been provided for students and faculties throughout the campus and at home. Through the Website **https://rvce.edu.in//lib-journals**.

Table 5.6.1 Online Access Details

Sl. No.	Journal Publisher	URL	No. of Journals
1	Elsevier - Science Direct (Engineering + Computer Science)-	www.sciencedirect.com/	327
2	EBSCO Engineering Suite)	https://search.ebscohost.com/	6100
3	Springer Nature (ME, CV, CS, EC and allied branches)	https://link.springer.com/	689
4	IEEE Journals (Institutional Subscription)	https://ieeexplore.ieee.org/	201
5	Emerald (Management) Journals	https://www.emeraldinsight.com/	120
6	ProQuest (Architecture and all Engineering and its Allied Branches)	https://www.proquest.com/	4492

Sl. No.	e-Books Publisher	URL	No. of e-Books
1	Packt (Professional)	https://prod.packtpub.com/in/	5002
2	Taylor & Francis (Engineering and allied branches)	https://www.tandfonline.com/	4950
3	Elsevier SD (Engineering)	https://www.sciencedirect.com/	436
4	Emerald (Management)	https://www.emeraldinsight.com/	436
5	New age International	https://digital.elib4u.com/	220
6	Pearson e-Books	https://elibrary.in.pearson.com/	496
7	Wiley e-Books	https://ebooks.wileyindia.com/	375
8	CAMBRIDGE UNIVERISTY PRESS e-Books	https://www.cambridge.org/core	58
9	BSP e-Books	https://ebookstore.bspublications.net	141
10	EDUPORT GLOBAL CBS e-Books	https://eduport-global.com	174
11	MINT e-Books	https://mintbook.com	1360
12	EBSCO ENGINEERING SUITE DATABASE (Engineering, Management, Architecture) e-Books	https://search.ebscohost.com	24015
13	CENGAGE LEARNING e-BOOKS	https://cengageindiaelibrary.ipublish	69
14	QUIKLRN e-Books	https://quiklrn.com/app.php	91
15	QUIKLRN LANGUAGE COMMUNICATION LAB	:https://home.quiklrn.com/englishlab/	-

Technology Platform		
1	Knimbus(Remote Access)	https://rvceb.knimbus.com
2	Drillbit plagiarism software)	https://www.drillbitplagiarismcheck.com
3	Turnitin (Plagiarism Software Online Tool	https://www.turnitin.com

5.6.2 Central Library

Total number of Titles: **61905**

Total number of Volumes: **189710**

5.6.3 Policy for Issue of Books and other Library Resources

a. 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/-

b. Four books are issued for undergraduates and five for postgraduate students.

c. Two additional Books are issued for SC/ST students.

d. Students are permitted to borrow CDs/ DVDs along with books.

e. Reference books are to be read within the library premises.

f. Books are issued for a period of two weeks, with one renewal for next two weeks.

g. For late return of books, late fee of Rs.1.00 per day is collected.

h. Reservation policy is provided.

i. In case of a student is leaving the institution on long leave or 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.

5.6.4 Working Hours of Library

a. Monday to Friday:09.00 am to 09.00 pm

b. Saturday: 09.00 am to 04:30 pm

c. Sunday: 09:00 am to 01.30 pm

5.6.5 Digital Library Facility

The internet and e- resources accessibility is available at digital library is open to all students from 9am to 4.30pm. 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.

Email ID: library@rvce.edu.in ; librarian@rvce.edu.in

5.7 ABOUT THE PLACEMENT AND TRAINING DEPARTMENT

a. The Placement and Training Department at RVCE engages with over 350 reputed organizations to facilitate internships and full-time employment for students.

b. The institute offers comprehensive infrastructure to support recruitment activities, including seminar halls for pre-placement talks, rooms for group discussions, conferencing, and interviews.

c. The department serves as the nodal center for career guidance, assisting students with opportunities for higher studies. It also partners with corporates to provide merit-cum-means scholarships amounting to approximately ₹0.70 crores annually, benefiting around 130 students.

d. To foster industry–academia collaboration, the department conducts HR conclaves, industry-linked workshops, and guest lectures by corporate leaders and eminent faculty from reputed institutions.

e. It also coordinates industry-sponsored recognitions such as the *Best Student Award*, *Best Teacher Award*, and *Star Award*.

f. Institution-level training programmes, facilitated by the department, focus on developing essential skills and enhancing employability.

Table 5.6.1 Placement Statistics (Growth Structure)

Year	2024-2025*	2023-2024	2022-2023	2021-2022	2020-2021
No. of Offers Made	936	1155	1267	1533	1356
No of Companies Visited	252	281	269	291	249
No of Students Selected (A)	862	1071	1103	1237	1082
Highest Salary	67.00	92.00	62.00	56.25	51.00

5.8 HOSTEL FACILITY

a. There are four BOYS Hostels in the campus catering to over 1400 inmates.

b. **There is one ladies hostel inside campus and another located near the college**.

c. Hostel is equipped with modern kitchen and dining hall.

d. All Hostel blocks are provided with Wi-Fi facility/Internet, common TV Room and solar heating/ heat pump facility.

e. Gymnasium facility is available.

f. Every hostel has separate residential supervisor for coordinating the activities.

g. Boarders are encouraged to be part of mess committee.

h. **Boarders are encouraged to take part in NSS, NCC, Innovative club activities, Cultural activities and Sports activities.**

BOYS HOSTEL:

Warden	Dr. P. Nagaraju
	Associate Professor & Associate Dean (PG)
	Dept. of Electronics and Telecommunication Engineering
	(O): 080 6818 8219 (M): 9916911720
Deputy Warden	**Dr. A. H. Manjunatha Reddy**
	Professor
	Dept. of Biotechnology
	(O): 080 6818 8160 (M): 984457369

Name of the Hostel	Accommodated to	No. of Rooms	Total Capacity	Contact No. of Residential warden
Cauvery Hostel (Double occupancy)	2nd and 3rd Year UG Students	352	704	Mr. Mohan Kumar 9481219296
Krishna Hostel (Double occupancy)	First year UG Students	74	148	
Krishna Annex Hostel (Triple occupancy)	First year UG Students	31	93	
Sir M. V. Hostel (Double occupancy)	First year UG Students	136	268	Dr. Shiva Kumar 9480343742
Chamundi Hostel (Double occupancy)	Final Year UG & PG Students	121	242	

GIRLS HOSTEL:

Warden	Dr. Padmaja K. V.
	Professor
	Electronics & Instrumentation Engineering
	(O): 080-68188166 (M): 9845016646
Deputy Warden	**Dr. Sudha Kamath**
	Associate Professor
	Department of Physics
	(O):080-68188232 (M): 9480404395

Name of the Hostel	Used by	No. of Rooms	Total Capacity	Contact No. of In-House Warden
Krishna Garden Hostel (Off Campus)	UG & PG Students	66	132	Ms. Vidyawati 7795981203
RVCE Girls DJ Hostel (On Campus)	UG Students	95	285	Mrs. Dhanamma 8553425655

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.

6. CO-CURRICULAR/EXTRA CURRICULAR ACTIVITIES

All cultural activities in the college are conducted under the umbrella of CAT (Cultural Activity Team). The CAT has the following wing of student clubs of different types of cultural activities.

6.1 CULTURAL ACTIVITY TEAMS

(A) ALAAP (MUSIC CLUB)

Alaap is the music club of RVCE. With about 60 musicians who are well versed with different genres. play quite a few genres like Carnatic classical, Hindustani classical, western classical, jazz, pop, rock and some metal.

(B) CARV (CIRCLE OF ACTING AT RV)

Circle of Acting in RV, CARV promotes talent in dramatics and has been actively organizing events in the college such as Street Acts, Stage Competitions as well as put up various stage shows in Bangalore. They are divided into three strands on the basis of language, a) CARV English, b) CARV Hindi, c) CARV Kannada

(C) CUBEX (CUBING CLUB)

Cubex is the cubing club of RVCE.

(D) DEBSOC

RVCE Debating Society is a high achieving society that participates in and organizes Parliamentary Debating Tournaments. Since its inception in 2003, RVCE Debating Society has been a society that has focused on excellence and inclusion. They train our juniors in the activity of Parliamentary Debating, providing them a worldview in several aspects beyond their academic skills. Through this society and the training, it provides, members significantly develop their public speaking skills and confidence. They diversify their viewpoints and move towards developing as individuals.

As a society they have achieved several notable feats on a national and international level.

(E) EVOKE (FASHION CLUB OF RVCE)

This is the fashion club of RVCE. They organize ramp walks and participate in many college fests in and outside of Bengaluru. They also perform for many fashion companies such as Pantaloons etc.

(F) FOOTPRINTS (DANCE CLUB)

Footprints is a cultural dance organization from RVCE. It is a community of dancers with versatile dance culture and background. The team mainly comprises of 3 divisions: The Western association: Enigma, The Eastern association: Dhritarang, The Classical association.

(G) KANNADA SANGHA

It provides an opportunity to non-Karnataka students to get an exposure to Karnataka's heritage and language, through Kannada programs.

(H)   PHOTOGRAPHY CLUB

This club plays a major role in capturing all of the college events, fests etc. They promote photography skills throughout the college and help organize various events.

(I) QUIZ CORP

RV QuizCorp is the official quizzing club of RV College of Engineering, dedicated to fostering curiosity, knowledge, and intellectual engagement. As one of the most active and accomplished quizzing clubs in the country, we specialize in both hosting and participating in quizzes. Our members push the boundaries of learning through competitive quizzing and funda based answers.

(J) RAAG (YOUTH CLUB OF RVCE)

The Youth Club of RVCE conducts various programs inculcating social awareness among students. It also conducts programs for skill development and literature.

(K) ROTARACT

Rotaract Club of R.V. College of Engineering is an institution based club in R.I. District - 3190, sponsored by Rotary Bangalore South. The club takes pride in having a record of an annual 1000+ registrations every year and thus being the biggest Rotaract club in South East Asia and one of the largest in the world.

(L) SATTVA (THE ART CLUB): A club to promote fine arts and crafts.

(M) TEDxRVCE

TEDxRVCE is an independently organized TEDx event at RV College of Engineering,dedicated to spreading ideas that inspire, innovate, and ignite change. As a platform for thought-provoking discussions, TEDxRVCE brings together visionary speakers, industry leaders, and changemakers to share their insights across diverse fields. Through its events, TEDxRVCE aims to empower minds, challenge perspectives, and spark conversations that extend beyond the stage, leaving a lasting impact on attendees.

6.2 INNOVATIVE TEAMS

The institution encourages and supports a wide range of student clubs and technical teams that foster innovation, collaboration, and hands-on learning. These teams actively participate in national and international competitions, contribute to research and development, and provide a platform for students to explore their interests beyond academics. The following is a list of active student teams and clubs:

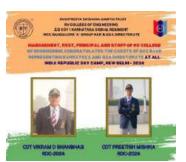| SL No.	Name of the team
1	Ashwa Mobility Foundation
2	Astra Robotics
3	Coding Club
4	Frequency club
5	Team Garuda
6	Jatayu
7	Team Antariksh
8	Team Chimera
9	Team Helios Racing
10	Team Krushi
11	Team Vyoma
12	Team Dhruva
13	Ham Club
14	Chitrak
15	Anoraniya
16	Accelerate Club

6.3 NATIONAL CADET CORP

The National Cadet Corps (NCC) is more than an organization, it is a cradle of Courage, Camaraderie and Commitment. NCC RVCE cadets uphold the motto: "Unity and Discipline" with valour in their hearts and strength in their actions as they represent Karnataka and Goa Directorate and RVCE at national and international levels.

For all these achievements, our college was recognized as "Best NCC Institution Runners – 2017" "Best NCC Institution Winners – 2018" and "Overall Best NCC Institution – 2019, 2021-22, 2022-23 & 2024-25" of Karnataka and Goa Directorate. A total of 18 cadets have attended the Republic Day camp ,18 in Thal Sainik Camp, 6 IDSSC, 6 AIGVMSC, 5 NSCC, 3 India Team Group B Trials, 10 in Youth Exchange Programs and 1 in Advanced Mountaineering camp so far, who have made NCC RVCE and the directorate proud. NCC RVCE has also produced 14 cadets who went on to join Armed Forces.

Achievement and activities:

CSUO Preetish Mishra and JUO Vikram D Shanbhagh of NCC RVCE represented Karnataka and Goa Directorate at Republic Day Camp-2024, at New Delhi.

Further, CSUO Preetish Mishra represented India in International Cadet Exchange Program, Singapore 2024.

6 Cadets of NCC RVCE represented Karnataka and Goa directorate in Inter Directorate Sports Shooting Competition-2024, 6 cadets in AIGVMSC, 5 cadets in NSCC and 3 cadets in India Team Group B Rifle Trials 1&2.

4 cadets of NCC RVCE represented Karnataka and Goa Directorate in All India Thal Sainik Camp-2024 at New Delhi. They took part in various events such as under various events such as Map Reading, JDFS and Health & Hygiene.

CDT Nitish Agrawal joined Indian Naval Academy through 10+2 Navy Tech, 2024. SUO Seema S Tendulkar joined Indian Naval Academy through SSC entry, 2025. CDT Vilaas V R joined National Defence Academy, 154th course, 2025.

For the first time, NCC RVCE conducted an event of their own, Lakshya, a 10 m break barrel rifle shooting experience under the able guidance of our principal, Dr. K N Subramanya and Dr. K M Ajay, CTO of NCC RVCE.

The event was conducted over 2 days i.e. 26th and 27th of April, 2025 and around 441 participants showed up with josh and enthusiasm. The event aimed to provide hands on experience of professional shooting.

NCC RVCE had the honour of hosting the Inter Group Sports Shooting Competition (IGSSC-2025) for the first time on the RVCE campus.

The Medal Ceremony of the Competition was graced by the esteemed presence of the Deputy Director General of the Karnataka.

NCC RVCE along with 1 Karnataka Signal Regiment, efficiently managed the accommodation and food arrangements for all participating cadets, ensuring their comfort and contributing significantly to the smooth and successful conduct of the event.

Cadets of NCC RVCE are actively engaged in Social Service and Community Development (SSCD) activities throughout the year, like Election Volunteering, Plantation Drive, Drug awareness walkathon, Iskon volunteering and many more. Over the years, many cadets have gone on to pursue diverse and distinguished careers in the Armed Forces, Civil Services, and various other fields, excelling and making their mark in every path they've chosen.

6.4 NATIONAL SERVICE SCHEME

National Service Scheme (NSS), under the Union Ministry of Youth Affairs and Sports, is dedicated to fostering community service and social responsibility among students. Guided by its motto "Not Me But You", NSS instills values of selfless service, teamwork, empathy and promotes service and leadership skills.

At RVCE, NSS is an active and vibrant unit with over 100 committed volunteers engaged in year-round activities. These include social awareness campaigns, community and village development projects, and environmental and Government school development initiatives.

Flagship programs such as the Utsarga Marathon promote fitness and social responsibility, while village camps allow volunteers to engage with rural communities, understand their needs, and contribute to developmental projects. Nature camps, featuring eco-walks, wildlife safaris, forest visits, and conservation activities helps to cultivate environmental sensitivity among NSS Volunteers. The unit also organizes Police Marshall programs to spread awareness on drug abuse and its prevention, encouraging youth to lead a healthy, substance-free life. Other initiatives include government school improvement, plantation drives, cultural programs, and participation in public welfare activities, all aimed at developing leadership skills and a spirit of service.

Major Achievements of NSS RVCE:

• Independence Day Cultural Parade (2024): Over 100 volunteers showcased India's cultural diversity at the Manekshaw Parade Ground, earning special appreciation from the Government of Karnataka.

• Awareness Campaigns: Volunteers conducted impactful programs on cybersecurity and the ill effects of drug abuse, engaging the public through interactive sessions. Their work was recognized with an award from the Home Minister of Karnataka.

• Cleanliness Drive at Jnanabharathi Campus: A large-scale drive and awareness campaign on hygiene and environmental care, featured on DD Chandana, drew community praise and inspired further participation.

• International Yoga Day Guinness Record: In collaboration with Akshara Yoga, NSS volunteers contributed to setting 12 Guinness World Records in one day.

• Samvedna 2.0 Blood Donation Camp: A two-day drive mobilized students and staff to donate blood. The dedication of volunteers ensured the event's success, earning special commendation from the State NSS Officer.

Through these initiatives, NSS RVCE continues to uphold its mission of service, leadership, and holistic development, making a tangible difference to society.

Special prize for Cultural Parade at Manekshaw Parade ground on August 15th, 2024

RVCE NSS Team – 2024-25

International Drug Awareness Day- 2025

Utsarga Marathon 2025

Plog Run and Awareness drive at Jnanabharati.
Eco Sensitization activity.

Ecofriendly Clay Ganesha Distribution

Couuminity Development and Social Connect
activity at Jnanabharati Layout

NSS Village Camp 2025 at Peraje

Mega Plantation drive at Kanakapura

Blood Donation Camp samvedana 2.0

Government School Activity PUSTAKA

Police Marshall

NSS Pre RD Parade Practice

NSS Government schemes Awareness

![RV College of Engineering logo] **RV College of Engineering**®
Mysore Road, RV Vidyaniketan Post,
Bengaluru - 560059, Karnataka, India

Go, change the world

7. 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 lo 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.

c. 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.

d. Boys are expected to wear shirts and trousers. No tight fitting clothing is permitted.

e. Displaying offensive and obscene slogans and icons on clothing is prohibited.

f. Uniforms for Labs is white coats and for workshops steel grey uniform.

g. 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

b. Banking Facilities with ATM

c. Post Office

d. Stationery Stores

e. Food Court (Two)

f. Health Centre

g. Pharmacy

h. Meditation Centre

ANNEXURE - I

KEY EXECUTIVES

SL No.	Designation	Name	E-Mail ID
1.	Principal	Dr. Subramanya K N	principal@rvce.edu.in
2.	Vice principal	Dr. K S Geetha	viceprincipal@rvce.edu.in
3.	Dean Academics	Dr. M.V. Renukadevi	dean.academics@rvce.edu.in
4.	Dean Student Affairs	Dr. B M Sagar	dean.studentaffairs@rvce.edu.in
5.	Controller of Examination	Dr. V. Anantharama	coe@rvce.edu.in
6.	Dean Placements & Training	Dr. Ranganath D	placement@rvce.edu.in
7.	Dean, Research & Development	Dr. M. Uttarakumari	dean.rnd@rvce.edu.in
8.	Dean (PG & Research) for Circuit Programs	Dr. K Sreelakshmi	dean.circuit@rvce.edu.in
9.	Dean (PG & Research) for Non-Circuit Programs	Dr. Radhakrishna	dean.noncircuit@rvce.edu.in
10.	Dean-CSE Cluster	Dr. Ramakanth Kumar P	dean.csecluster@rvce.edu.in
11.	Dean-Continuing Education and Skill Development	Dr. M. Krishna	dean.cesd@rvce.edu.in
12.	Dean-Global Partnerships	Dr. Nataraj J R	dean.gp@rvce.edu.in
13.	Warden, RVCE Boys Hostel	Dr. P. Nagaraju	rvce.bh@rvce.edu.in
14.	Deputy Warden, RVCE Boys Hostel	Dr. Manjunatha Reddy	rvce.bh@rvce.edu.in
15.	Warden, RVCE Girls Hostel	Dr. K.V.Padmaja	warden.rvgh@rvce.edu.in
16.	Deputy Warden, RVCE Girls Hostel	Dr. Sudha Kamath M K	warden.rvgh@rvce.edu.in
17.	Librarian	Dr. T.R.Sridevi	librarian@rvce.edu.in

HEADS OF THE DEPARTMENTS

SL No.	Department	Name	E-mail ID
1	Aerospace Engineering	Dr. Supreeth R	hod.ae@rvce.edu.in
2	Artificial Intelligence and Machine Learning	Dr. Sathish babu. B	hod.ai@rvce.edu.in
3	Biotechnology	Dr. Nagashree N rao	hod.bt@rvce.edu.in
4	Chemical Engineering	Dr. Jagadish H Patil	hod.ch@rvce.edu.in
5	Civil Engineering	Dr. Anjaneyappa	hod_civil@rvce.edu.in
6	Computer Science and Engineering	Dr. Shantha Rangaswamy	hod.cse@rvce.edu.in
7	Electronics & Communication Engineering	Dr. Ravish Aradhya H V	hod.ec@rvce.edu.in
8	Electrical & Electronics Engineering	Dr. Srivani S G	hod.ee@rvce.edu.in
9	Electronics and Instrumentation	Dr. CH Renu madhavi	hod.it@rvce.edu.in
10	Electronics & Telecommunication Engineering	Dr. Nagamani K	hod.tc@rvce.edu.in
11	Industrial Management Engineering	Dr. Rajeswara Rao	hod.im@rvce.edu.in
12	Information Science & Engineering	Dr. Mamatha G S	hodise@rvce.edu.in
13	Mechanical Engineering	Dr. Shanmukha N	hod.me@rvce.edu.in
14	Department of Chemistry	Dr. Mahesh R	hod.chemistry@rvce.edu.in
15	Department of Mathematics	Dr. Jayalatha G	hod.maths@rvce.edu.in
16	Department of Physics	Dr. Shireesha Golla	hod.physics@rvce.edu.in
17	Director, Master of Computer Applications	Dr. Jasmine K S	director-mca@rvce.edu.in
18	Program Coordinator (CSE-CY)	Dr. Minal Moharir	pc.csecy@rvce.edu.in
19	Program Coordinator (CSE-DS)	Dr. Soumya A	pc.cseds@rvce.edu.in

ASSOCIATE DEANS OF PG PROGRAMS

SL No.	Department	Name	E-mail ID
1	Biotechnology	Dr. G Vijayakumar	adean.bt@rvce.edu.in
2	Civil Engineering	Dr. T Raghavendra	adean.cv@rvce.edu.in
3	Electronics & Communication Engineering	Dr. Usha rani KR	adean.ec@rvce.edu.in
4	Electrical & Electronics Engineering	Dr. M N Dinesh	adean.ee@rvce.edu.in
5	Electronics & Telecommunication Engineering	Dr. P Nagaraju	adean.tc@rvce.edu.in
6	Information Science & Engineering	Dr. Padmashree T	adean.is@rvce.edu.in
7	Mechanical Engineering	Dr. Ramesh S Sharma	adean.me@rvce.edu.in
8	Placement & Training	Dr. Shilpa D R	adean.pnt1@rvce.edu.in
9	Placement & Training	Dr. Ramaa A	adean.pnt2@rvce.edu.in
10	Cultural Activities	Dr. Rajalakshmi Mudibidre	adean.cat@rvce.edu.in

INNOVATIVE TEAMS OF RVCE

Ashwa Mobility Foundation (AMF): Designs and fabricates Formula-themed race cars and mobility solutions to address urban transportation issues.

Astra Robotics Team: Focuses on designing and building application-specific robots.

Coding Club: Helps students gain coding skills and succeed in competitions like GSoC and ACM-ICPC.

Frequency Club Team: Works on software and hardware, emphasizing AI and Machine Learning.

Team Garuda: Develops a supermileage urban concept electric car and E-mobility products.

Team Jatayu: Builds low-cost UAVs with autonomous capabilities for various tasks.

Team Antariksh: Focuses on space technology and the development of operational rockets.

Team Chimera: Builds a Formula Electric Car through R&D in E-Mobility.

Helios Racing Team: Designs and tests All-Terrain Vehicles, participating in SAE's BAJA competitions.

Team Krushi: Creates low-cost farming equipment to assist farmers in cultivation and harvesting.

Team Vyoma: Designs and tests radio-controlled aircraft and UAVs.

Team Dhruva: Engages in astronomy-related activities and collaborates on projects with organizations like ICTS and IIA.

Ham Club: Promotes Amateur Radio and explores technical innovations in communications, especially for disaster response.

Chitrak : It is the official electric bike team of RV College of Engineering (RVCE) in Bangalore

Anoraniya:A Quantum based technical club initiated by students. The club is dedicated to addressing various technical challenges in quantum technologies and is on the verge of delivering some fascinating results.

Accelerate Club: organizes and participates in hackathons, bootcamps, workshops, and student-led innovation drives.

Cultural Activity Teams

1. AALAP (Music club)
2. DEBSOC (Debating society)
3. CARV (Dramatics club)
4. FOOTPRINTS (Dance club)
5. QUIZCORP (Quizzing society)
6. ROTARACT (Social welfare club)
7. RAAG (Youth club)
8. EVOKE (Fashion team)
9. f/6.3 (Photography club)
10. CARV ACCESS (Film-making

NSS of RVCE

NCC of RVCE

VISION

Leadership in Quality Technical Education, Interdisciplinary Research & Innovation, with a Focus on Sustainable and Inclusive Technology

MISSION

- To deliver outcome based Quality education, emphasizing on experientiallearning with the 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 that 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, Innovation

RV College of Engineering®

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