



RajaRajeswari College of Engineering



(Approved by AICTE, New Delhi, Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi)

An Autonomous Institution

Sponsored by: MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST

INSTITUTION DEVELOPMENT PLAN



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Executive Summary

The Institutional Development Plan (IDP) of RajaRajeswari College of Engineering (RRCE) presents a strategic roadmap for achieving academic excellence, research innovation, industry relevance, and institutional sustainability over the coming years. The plan is aligned with the National Education Policy (NEP) 2020, the vision of the institution, and the quality benchmarks established by regulatory and accreditation bodies such as AICTE, UGC, NAAC, and NBA.

The IDP focuses on strengthening teaching-learning processes through outcome-based education, curriculum enrichment, digital learning technologies, faculty development, and student-centered pedagogical practices. It emphasizes creating an ecosystem that nurtures critical thinking, innovation, entrepreneurship, interdisciplinary learning, and lifelong learning skills among students.

Research and innovation constitute a key pillar of the development plan. The institution aims to enhance research output through increased funding, collaborative projects, publications in high-impact journals, intellectual property generation, incubation support, and partnerships with industries, research organizations, and higher education institutions at national and international levels.

Recognizing the dynamic needs of industry, the IDP prioritizes stronger industry-academia collaboration through internships, live projects, skill development programs, certification courses, consultancy activities, and enhanced placement initiatives. These efforts are intended to improve graduate employability and prepare students for emerging technologies and global career opportunities.

The plan also emphasizes holistic student development by promoting leadership, ethics, environmental consciousness, social responsibility, entrepreneurship, innovation, sports, cultural activities, and community engagement through extension programs. Student support services, mentoring systems, career guidance, and mental well-being initiatives will be further strengthened to ensure an inclusive and supportive learning environment.

Infrastructure development forms another important component of the IDP, with planned investments in modern laboratories, smart classrooms, digital libraries, research facilities, sustainable campus initiatives, renewable energy, and advanced ICT-enabled learning resources. These initiatives aim to create a technology-driven, environmentally responsible, and future-ready campus.

Faculty excellence remains central to institutional growth. The college is committed to continuous professional development through training, higher education opportunities, research incentives, leadership development, and performance-based recognition systems to foster academic and professional excellence.



The Institutional Development Plan also incorporates robust governance practices, transparent administration, effective quality assurance mechanisms, financial sustainability, stakeholder participation, and data-driven decision-making to ensure continuous institutional improvement.

Through this comprehensive development framework, RajaRajeswari College of Engineering aspires to strengthen its position as a leading institution for engineering education, research, innovation, and societal contribution. The successful implementation of this IDP will enhance academic quality, institutional competitiveness, graduate outcomes, and national and global recognition while fulfilling the institution's commitment to producing competent professionals, responsible citizens, and future leaders.

Institutional Profile

Name of the Institution: RajaRajeswari College of Engineering (RRCE), Bengaluru.

1. **Year of Establishment:** 2006.
2. **Management:** Managed by **Moogambigai Charitable and Educational Trust (MCET), Bengaluru.**
3. **Location:** Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru – 560074, Karnataka.
4. **Affiliation:** Autonomous institution under Visvesvaraya Technological University (VTU), Belagavi.
5. **Approvals and Recognition:**
 - Approved by the **All India Council for Technical Education (AICTE), New Delhi.**
 - Recognized by the **University Grants Commission (UGC).**
 - Approved by the Government of Karnataka.
6. **Accreditation:**
 - Reaccredited by **NAAC** with '**A+**' Grade.
 - **NBA** accreditation for eligible engineering programmes (including CSE, ECE, and ISE).
 - ISO 9001:2015 Certified.
 - International accreditation by HLACTION, Texas (as reported by the institution).
7. **Vision:** To become a centre of excellence in engineering education, research, innovation, and societal development.
8. **Mission:**
 - Deliver quality technical education.
 - Promote research, innovation, and entrepreneurship.
 - Foster industry collaboration and lifelong learning.
 - Develop socially responsible and ethically competent engineers.
9. **Academic Programmes:**
 - Undergraduate (B.E.) programmes in multiple engineering disciplines.
 - Postgraduate programmes including M.Tech., MBA, and MCA.
 - Ph.D. programmes through recognized research centers.
10. **Academic Departments:** Departments include Computer Science & Engineering, Artificial Intelligence & Machine Learning, Information Science & Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering, Civil Engineering, Mechanical Engineering, Robotics & Automation, Computer Science & Design, and other emerging technology programmes.
11. **Research and Innovation:**
 - Multiple VTU-recognized research centres.
 - Sponsored research projects.
 - Patent filing and publications.
 - Innovation, incubation, and entrepreneurship initiatives.
12. **Faculty Strength:**
 - Experienced and qualified faculty members with Ph.D. qualifications.



- Continuous faculty development through FDPs, workshops, conferences, and research activities.
- 13. **Student Strength:** More than 2,000 students enrolled across undergraduate and postgraduate programmes.
- 14. **Infrastructure:**
 - Smart classrooms.
 - Modern laboratories and workshops.
 - Central library with digital resources.
 - Wi-Fi-enabled campus.
 - High-speed computing facilities.
 - Auditorium, seminar halls, sports facilities, hostels, cafeteria, and transport services.
- 15. **Industry Collaboration:**
 - Memoranda of Understanding (MoUs) with industries and academic institutions.
 - Internships, industrial visits, consultancy, and collaborative projects.
 - Industry-supported laboratories and skill development initiatives.
- 16. **Training and Placement:**
 - Dedicated Training and Placement Cell.
 - Career guidance, aptitude training, coding practice, and soft skills development.
 - Recruitment by leading multinational companies and core industries.
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- 17. **Student Development:**
 - Professional societies (IEEE, ISTE, CSI, etc.).
 - Technical clubs, innovation clubs, coding clubs, cultural and sports activities.
 - NSS, NCC, and community outreach programmes.
- 18. **Quality Assurance:**
 - Internal Quality Assurance Cell (IQAC).
 - Outcome-Based Education (OBE) framework.
 - Academic audits, feedback systems, and continuous quality improvement.
- 19. **Institutional Strengths:**
 - Student-centric teaching-learning environment.
 - Strong academic and research ecosystem.
 - Modern infrastructure.
 - Industry-oriented curriculum.
 - Focus on innovation, entrepreneurship, and employability.
 - Commitment to ethical values, sustainability, and community engagement.

Strategic Objectives (2025–2033)

Objective 1: Academic Excellence

- Strengthen Outcome-Based Education (OBE) and competency-based learning.
- Continuously revise curriculum to align with NEP 2020 and emerging technologies.
- Enhance experiential, project-based, and interdisciplinary learning.
- Improve student academic performance, graduation rates, and higher education opportunities.

Objective 2: Research, Innovation and Entrepreneurship

- Increase externally funded research projects and consultancy activities.
- Promote high-quality publications, patents, copyrights, and technology transfer.
- Strengthen the AICTE IDEA Lab, innovation ecosystem, incubation, and startup culture.
- Foster interdisciplinary and collaborative research with national and international institutions.

Objective 3: Industry Collaboration and Employability



- Establish strategic partnerships with leading industries and research organizations.
- Expand internship, apprenticeship, and industry-sponsored project opportunities.
- Strengthen Centres of Excellence in emerging technologies.
- Improve placement rates through industry-relevant skill development and professional certifications.

Objective 4: Faculty Excellence

- Enhance faculty qualifications through doctoral and post-doctoral research.
- Promote continuous professional development through FDPs, certifications, and industrial exposure.
- Encourage faculty participation in research, consultancy, innovation, and international collaborations.
- Implement performance-based recognition and leadership development programmes.

Objective 5: Student Development and Success

- Provide holistic education emphasizing ethics, leadership, communication, and teamwork.
- Strengthen mentoring, career guidance, counseling, and student support services.
- Promote innovation, entrepreneurship, sports, cultural, and extension activities.
- Encourage participation in national and international competitions.

Objective 6: Digital Transformation and Smart Campus

- Develop a digitally enabled teaching-learning ecosystem.
- Upgrade smart classrooms, virtual laboratories, and digital library resources.
- Integrate Artificial Intelligence, data analytics, and automation into institutional processes.
- Strengthen cybersecurity and ICT infrastructure.

Objective 7: Quality Assurance and Accreditation

- Sustain excellence through continuous quality improvement.
- Achieve accreditation for all eligible programmes.
- Strengthen IQAC initiatives, academic audits, and stakeholder feedback mechanisms.
- Improve institutional rankings and national/international recognition.

Objective 8: Infrastructure Development

- Modernize laboratories and research facilities.
- Expand infrastructure to support emerging technologies and multidisciplinary education.
- Develop sustainable and environmentally responsible campus facilities.
- Enhance hostel, sports, healthcare, and recreational amenities.

Objective 9: Internationalization

- Establish academic collaborations with reputed international universities.
- Promote faculty and student exchange programmes.
- Encourage international internships, collaborative research, and joint publications.
- Increase the enrolment of international students and participation in global academic initiatives.

Objective 10: Governance and Institutional Sustainability

- Strengthen transparent, participative, and data-driven governance.



- Ensure financial sustainability through resource mobilization, consultancy, and funded projects.
- Promote green campus initiatives, renewable energy, and environmental sustainability.
- Enhance stakeholder engagement, alumni participation, and community outreach to support institutional growth.

Expected Outcomes by 2033

- Recognition as a leading autonomous engineering institution with national and international visibility.
- Significant growth in research funding, patents, publications, and innovation-driven startups.
- Enhanced graduate employability through strong industry partnerships and future-ready curricula.
- Excellence in teaching, learning, governance, and quality assurance aligned with global standards.
- A sustainable, technology-enabled campus fostering academic excellence, social responsibility, and lifelong learning.

Institutional SWOC Analysis

Strengths

- Autonomous institution with academic flexibility in curriculum design and assessment.
- NAAC A+ accreditation and NBA accreditation for eligible programmes.
- Approved by AICTE and affiliated with Visvesvaraya Technological University (VTU).
- Qualified and experienced faculty with expertise in teaching, research, and consultancy.
- Outcome-Based Education (OBE) and student-centric teaching-learning practices.
- Well-equipped laboratories, smart classrooms, digital library, and ICT-enabled campus.
- Strong industry collaborations, MoUs, internships, and placement support.
- Active research centres with increasing publications, patents, and funded research projects.
- Dedicated Training and Placement Cell with consistent placement opportunities.
- Vibrant innovation and entrepreneurship ecosystem through incubation and startup initiatives.
- Good infrastructure including hostels, sports facilities, transport, and healthcare services.
- Active professional societies, student clubs, NSS, NCC, and extension activities.
- Strong governance supported by IQAC and continuous quality improvement mechanisms.

Weaknesses

- Limited international collaborations and global student/faculty exchange programmes.
- Scope for increasing externally funded research projects and consultancy revenue.
- Need for higher research output in high-impact journals and greater patent commercialization.
- Limited number of internationally recognized faculty and visiting professors.
- Opportunities to improve participation in multidisciplinary and interdisciplinary research.
- Need to strengthen alumni engagement for mentoring, networking, and fundraising.
- Requirement for greater industry-sponsored laboratories and Centres of Excellence.
- Scope for enhancing international student enrolment and global academic visibility.

Opportunities

- Implementation of the National Education Policy (NEP) 2020 and multidisciplinary education.



- Growing demand for programmes in Artificial Intelligence, Machine Learning, Data Science, Cyber security, Robotics, and emerging technologies.
- Increased funding opportunities from AICTE, DST, SERB, DRDO, ISRO, and other government agencies.
- Expansion of international academic partnerships and collaborative research.
- Growth of startup ecosystems and entrepreneurship through incubation support.
- Enhanced digital learning through online platforms, virtual laboratories, and blended education.
- Industry demand for certified professionals, creating opportunities for value-added and skill-based programmes.
- Potential to improve national rankings (NIRF) and international recognition through quality initiatives.
- Strengthening consultancy services and technology transfer with industries.
- Increasing collaboration with alumni for internships, placements, research, and institutional development.

Challenges

- Rapid technological advancements requiring continuous curriculum revision and faculty upskilling.
- Increasing competition from autonomous, private, and deemed universities.
- Attracting and retaining highly qualified faculty and researchers.
- Meeting evolving accreditation, ranking, and regulatory requirements.
- Securing sustained funding for advanced research infrastructure and innovation.
- Bridging the gap between academic learning and rapidly changing industry expectations.
- Maintaining high placement rates during changing economic and employment conditions.
- Addressing cyber security, data privacy, and digital transformation challenges.
- Ensuring financial sustainability while maintaining affordable, high-quality education.
- Responding effectively to changing learner expectations, globalization, and emerging educational technologies.

Strategic Implications

The SWOC analysis indicates that RajaRajeswari College of Engineering possesses a strong academic foundation, quality infrastructure, and an established culture of teaching and learning. To achieve its strategic vision for 2025–2033, the institution should leverage its strengths to expand research excellence, global collaborations, innovation, and industry engagement while addressing identified weaknesses through faculty development, enhanced research funding, digital transformation, and internationalization. By capitalizing on emerging opportunities and proactively managing challenges, RRCE can strengthen its position as a nationally recognized and globally competitive institution of higher education.

Strategic Pillars

1. Academic Excellence

Goal: Deliver high-quality, outcome-based, multidisciplinary education.

- Curriculum aligned with NEP 2020 and industry needs.
- Outcome-Based Education (OBE) implementation.



- Experiential, project-based, and blended learning.
- Continuous curriculum review and academic innovation.

2. Research, Innovation and Entrepreneurship

Goal: Build a vibrant research and innovation ecosystem.

- Increase funded research projects.
- Enhance publications, patents, and intellectual property.
- Strengthen incubation and startup support.
- Promote interdisciplinary and collaborative research.

3. Faculty Development

Goal: Develop competent, research-oriented, and globally competitive faculty.

- Faculty Development Programmes (FDPs).
- Higher education and research opportunities.
- Industry exposure and professional certifications.
- Performance-based appraisal and recognition.

4. Student Development and Employability

Goal: Produce skilled, ethical, and industry-ready graduates.

- Skill development and certification programmes.
- Career guidance and mentoring.
- Internship and placement enhancement.
- Leadership, communication, and entrepreneurship training.

5. Industry Collaboration

Goal: Strengthen partnerships with industry and professional organizations.

- Industry-sponsored laboratories.
- Centres of Excellence.
- Consultancy and collaborative research.
- Live projects and internships.

6. Digital Transformation

Goal: Create a smart and technology-enabled campus.

- Smart classrooms and virtual laboratories.
- Learning Management System (LMS).
- AI-enabled academic and administrative processes.
- Digital library and cloud-based services.

7. Infrastructure Development

Goal: Provide world-class infrastructure for teaching, research, and student welfare.



- Modern laboratories and research facilities.
- Green campus and renewable energy initiatives.
- Smart classrooms and innovation spaces.
- Hostel, sports, healthcare, and recreational facilities.

8. Quality Assurance and Governance

Goal: Strengthen institutional governance and continuous quality improvement.

- Effective IQAC functioning.
- Academic and administrative audits.
- Data-driven decision-making.
- Transparent and participative governance.

9. Internationalization

Goal: Enhance global engagement and academic collaboration.

- International MoUs.
- Faculty and student exchange programmes.
- Joint research and publications.
- International internships and collaborative projects.

10. Sustainability and Social Responsibility

Goal: Promote environmental sustainability and community engagement.

- Green campus initiatives.
- Energy conservation and waste management.
- Community outreach programmes.
- Sustainable Development Goals (SDGs) integration.

Implementation Framework

Strategic Area	Key Initiatives	Timeline	Performance Indicators
Academic Excellence	Curriculum revision, OBE, multidisciplinary education	2025–2033	Student performance, graduate outcomes, accreditation
Research & Innovation	Research funding, patents, incubation, publications	2025–2033	Research grants, patents, publications, startups
Faculty Development	FDPs, Ph.D. support, certifications	2025–2033	Qualified faculty, FDP participation, research output
Employability	Skill development, internships, placements	2025–2033	Placement rate, certifications, employer satisfaction
Industry Collaboration	MoUs, consultancy, Centres of Excellence	2025–2033	Number of collaborations, consultancy revenue
Digital Transformation	Smart campus, LMS, AI integration	2025–2033	ICT utilization, digital services adoption
Infrastructure	Laboratory modernization, campus expansion	2025–2033	Infrastructure utilization and user satisfaction



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Governance & Quality	IQAC, audits, rankings	2025–2033	NAAC/NBA outcomes, institutional rankings
Internationalization	MoUs, exchanges, joint research	2026–2033	International collaborations and mobility
Sustainability	Green initiatives, outreach	2025–2033	Energy savings, community impact, SDG achievements

Monitoring and Review

- Annual Strategic Plan Review by the Governing Council and IQAC.
- Department-wise action plans with measurable Key Performance Indicators (KPIs).
- Mid-term review in 2029 to assess progress and refine strategies.
- Stakeholder feedback from students, faculty, alumni, employers, and industry partners.
- Annual performance reports with corrective and preventive action plans.

Expected Outcomes by 2033

- Recognition among leading autonomous engineering institutions in India.
- Excellence in teaching, learning, research, and innovation.
- Increased research funding, patents, publications, and startup ventures.
- Strong industry partnerships and improved graduate employability.
- Enhanced national and international collaborations.
- Sustainable, digitally enabled, and student-centric campus.
- Continuous improvement in accreditation status, rankings, and institutional reputation.