



DR. ACS COLLEGE OF ENGINEERING

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BENGALURU

INSTITUTION DEVELOPMENT PLAN



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1) EXECUTIVE SUMMARY

The Institutional Development Plan (IDP) of Dr. A.C.S. College of Engineering presents a comprehensive roadmap for institutional transformation and sustainable growth over the next five years. The plan aims to strengthen academic excellence, research capabilities, innovation culture, industry engagement, digital infrastructure, quality assurance systems, and societal contribution.

The proposed IDP has been developed considering the changing landscape of higher technical education and the objectives of:

- National Education Policy (NEP) 2020
- University Grants Commission (UGC) guidelines
- All India Council for Technical Education (AICTE) quality initiatives
- National Assessment and Accreditation Council (NAAC) framework
- National Board of Accreditation (NBA) requirements
- National Institutional Ranking Framework (NIRF)
- Sustainable Development Goals (SDGs)

The strategic intent of the institution is to evolve from a quality-oriented Engineering College into an autonomous, research-driven, innovation-focused institution with strong national recognition and global academic linkages.

The IDP focuses on eight major development pillars:

1. Academic Excellence and Autonomy
2. Research, Innovation and Entrepreneurship
3. Infrastructure Modernization
4. Student Development and Employability
5. Digital Transformation



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6. Industry Collaboration
7. Internationalization
8. Governance, Quality Assurance and Sustainability

By 2031, the institution aims to achieve significant improvements in accreditation performance, research output, placement excellence, industry partnerships, digital learning capabilities, and sustainable campus development.

2) INSTITUTIONAL PROFILE

2.1 Institution Overview

Name of Institution:	Dr. A.C.S. College of Engineering
Location:	Kambipura, Bengaluru, Karnataka
Affiliation:	Visvesvaraya Technological University (VTU)
Approvals and Recognition:	• Approved by All India Council for Technical Education (AICTE) • Recognized by Government of Karnataka • Compliant with applicable UGC regulations

2.2 Academic Profile

The institution offers undergraduate and postgraduate engineering programmes and research programmes, supported by qualified faculty members, laboratories, digital learning facilities, and industry-oriented academic practices.

The institution continuously works towards:

- Improving teaching-learning processes
- Enhancing research culture
- Promoting innovation among students



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- Developing industry-ready graduates
- Creating socially responsible engineers

2.3 Institutional Strengths

The institution possesses several strengths supporting future growth:

- Strategic location in Bengaluru's technology ecosystem
- Access to industry partnerships
- Experienced faculty resources
- Growing research potential
- Modern engineering infrastructure
- Commitment towards quality improvement

3) VISION, MISSION AND CORE VALUES

3.1 Vision

Engineering the future of the nation by transforming the students to be technically skilled managers, innovative leaders and environmentally receptive citizens

3.2 Mission

To implement holistic approach in curriculum and pedagogy through Industry Integrated Interactions to meet the needs of Global Engineering Environment. To develop students with knowledge, attitude and skill of employability, entrepreneurship (Be Job creators than job seekers), research potential and professionally ethical citizens

3.3 Institutional Core Values

Academic Excellence

Commitment towards continuous improvement in teaching, learning, research and professional development.



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Integrity

Maintaining ethical standards, transparency and accountability in all institutional activities.

Innovation

Encouraging creativity, research and technology-driven solutions

Inclusiveness

Providing equal opportunities and a supportive learning environment.

Sustainability

Promoting environmentally responsible practices and sustainable development.

Leadership

Developing future-ready professionals with leadership capabilities

Professional Ethics

Building responsible engineers committed to societal welfare.

Social Responsibility

Contributing towards community development and national progress.



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4) STRATEGIC OBJECTIVES (2026–2031)

The institutional development strategy is based on the following objectives:

Objective 1: Academic Autonomy and Excellence

The institution will work towards achieving academic autonomy and implementing flexible, multidisciplinary education models.

Key initiatives:

- Curriculum modernization
- Outcome Based Education (OBE)
- Choice Based Credit System (CBCS)
- Minor and Honors degree programmes
- Industry-integrated courses
- Strengthen our proctor system

Objective 2: Research and Innovation Growth

The institution aims to strengthen a strong research ecosystem through:

- Existing Research centre with adequate infrastructure
- Funded projects
- Patents
- Consultancy activities
- Industry-sponsored research
- Student innovation projects
- Seed money
- Incubation and startup and establish Centre of Excellence



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Objective 3: Industry-Oriented Education

The institution will strengthen collaboration with:

- IT companies
- Manufacturing industries
- Aerospace organizations
- Biomedical industries
- MSMEs
- Start-up companies

The objective is to bridge the gap between academic learning and industrial requirements.

Objective 4: Digital Transformation

The institution will implement technology-enabled education and administration through:

- Enterprise Resource Planning (ERP)
- Learning Management System (LMS)
- Digital examination systems
- Data analytics , E-governance

5) INSTITUTIONAL SWOC ANALYSIS

Strengths

- Established engineering institution in Bengaluru
- Strong academic foundation
- Qualified faculty members
- Industry exposure opportunities
- Compatible infrastructure facilities
- Commitment towards accreditation improvement



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Weaknesses

- Need for increased research funding
- Requirement for enhanced international collaborations
- Scope for improving ranking performance
- Need for greater industry-sponsored projects

Opportunities

- NEP 2020 reforms
- Growth of technology sectors
- Industry 5.0 opportunities
- Artificial Intelligence and emerging technologies
- International academic partnerships
- Entrepreneurship ecosystem development

Challenges

- Increasing competition among engineering institutions
- Rapid technological changes
- Changing student preferences
- Financial sustainability challenges



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6) STRATEGIC DEVELOPMENT FRAMEWORK

The Institutional Development Plan (2026–2031) is structured around eight strategic development activities focusing on achieving academic excellence, institutional growth, research advancement, and societal contribution.

6.1: Academic Excellence and Autonomy

Objective

To transform the institution into an academically autonomous institution offering flexible, innovative, and industry-relevant education.

Strategic Initiatives

- Implementation of academic autonomy.
- Curriculum restructuring based on NEP 2020 principles.
- Introduction of multidisciplinary learning.
- Implementation of Choice Based Credit System (CBCS).
- Introduction of Minor and Honours degree programmes.
- Industry participation in curriculum development.
- Integration of experiential learning, internships, and projects.
- Strengthening Outcome Based Education (OBE).

Five-Year Targets

Activity	Target by 2031
OBE Implementation	100% programmes
LMS Adoption	100% courses
Industry Curriculum Participation	All departments
Value Added Courses	80+ courses
Skill-Based Certifications	Increased participation



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6.2: Research, Innovation and Entrepreneurship

Objective

To establish a strong research ecosystem that promotes innovation, entrepreneurship, intellectual property creation, and industry-oriented research.

Strategic Initiatives

Research Development

- Establish interdisciplinary research groups.
- Encourage faculty research publications.
- Provide seed funding for innovative research.
- Promote externally funded projects.
- Develop research laboratories.

Innovation and Entrepreneurship

- Strengthen Innovation and Incubation Centre.
- Establish startup mentoring programmes.
- Encourage student innovation projects.
- Conduct hackathons and technology challenges.
- Promote IPR, patent filing and commercialization.
- Establish Idea Lab and MSME

Research Targets (2026–2031)

Research Area	Target
Scopus Indexed Publications	1000+
Patent Applications	100
Research Funding	₹10 Crore



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Research Area	Target
Consultancy Projects	100
Student Start-ups	30+
Industry Research Centres	Multiple

6.3: Faculty Development Plan

Objective

To enhance faculty competency through continuous professional development, research engagement, and industry exposure.

Major Initiatives

Faculty Capacity Building

- Faculty Development Programmes (FDPs).
- International certification programmes.
- Industry training programmes.
- Pedagogical innovation workshops.
- Research methodology training.

Research Encouragement

- Research incentives.
- Publication support.
- Patent assistance.
- Conference participation support.
- Faculty exchange programmes.



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Expected Outcomes

By 2031:

- More than 80% faculty members with PhD qualifications.
- Increased quality publications.
- Improved research collaboration.
- Enhanced teaching effectiveness.
- MoU with foreign Universities

6.4: Student Development and Employability Enhancement

Objective

To develop competent, employable, innovative, and socially responsible engineering graduates.

Student Development Initiatives:

Career Development

- Placement training programmes.
- Aptitude training.
- Coding and programming skills.
- Communication and soft skills training.
- Industry readiness programmes.

Innovation and Entrepreneurship

- Entrepreneurship Development Cell.
- Startup mentoring.
- Innovation competitions.
- Technical clubs.
- Student research projects.

Higher Education Support



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- Guidance for competitive examinations.
- Research career counselling.
- Higher education preparation.
- International opportunities.

Student Performance Targets

Indicator	Target by 2031
Placement Rate	Above 95%
Internship Participation	100%
Higher Studies	Above 25%
Student Start-ups	30+
Industry Certifications	Increased participation

6.5: Infrastructure Development Plan

Objective:

To create a technologically advanced, sustainable, and learner-friendly campus environment.

Academic Infrastructure Development

The institution will establish:

Advanced Laboratories

- Artificial Intelligence Laboratory
- Machine Learning Laboratory
- Internet of Things (IoT) Laboratory
- Robotics Laboratory
- High Performance Computing Facility



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- Additive Manufacturing Laboratory
- Cloud Computing Laboratory
- Drone/UAV Laboratory

Learning Facilities

- Smart classrooms
- Digital library
- Research facilities
- Innovation centre
- Collaborative learning spaces

Campus Infrastructure Development

Green Campus Initiatives

- Solar power generation
- Rainwater harvesting
- Waste management system
- Energy-efficient buildings
- Green landscaping
- EV charging facilities

Smart Campus Features

- Campus-wide Wi-Fi
- Smart surveillance
- Digital access systems
- Automated services



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6. 6: Digital Transformation Strategy

Objective:

To create a fully digital academic and administrative ecosystem.

Digital Implementation Plan

Academic Digitalization

- Learning Management System (LMS)
- Digital content development
- Online assessments
- Virtual laboratories
- MOOCs integration

Administrative Digitalization

- ERP implementation
- E-office system
- Online admission system
- Digital student services
- Data-driven decision-making

Expected Benefits

- Improved operational efficiency.
- Transparent governance.
- Better student services.
- Enhanced learning experience.
- Data-supported institutional planning.



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6.7: Industry Collaboration and Internationalization

Industry Partnership Strategy

The institution will establish strategic partnerships with industries for:

- Sponsored laboratories
- Joint research projects
- Internships
- Faculty training
- Consultancy services
- Industry-designed curriculum

Internationalization Strategy

The institution aims to develop global academic partnerships through:

- International MoUs
- Faculty exchange programmes.
- Student exchange opportunities.
- Joint research publications.
- International conferences.
- Collaborative academic programmes.

7) QUALITY ASSURANCE AND ACCREDITATION STRATEGY

Objective

To establish a continuous quality improvement culture aligned with national accreditation frameworks.



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IQAC Strengthening Measures

The Internal Quality Assurance Cell (IQAC) will coordinate:

- Academic audits
- Administrative audits
- Green audits
- Energy audits
- Gender audits
- Student satisfaction surveys
- Alumni feedback
- Employer feedback

8) GOVERNANCE AND LEADERSHIP DEVELOPMENT

Objective

To establish transparent, efficient, and technology-enabled institutional governance.

Governance Initiatives

- Decentralized administration.
- Department-level strategic planning.
- E-governance implementation.
- Data-based decision-making.
- Financial transparency.
- Leadership development programmes.

Monitoring Mechanism

Implementation will be reviewed through:

- Quarterly progress meetings.
- Annual strategic reviews.



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- IQAC evaluation.
- Governing Council monitoring.
- Stakeholder feedback.

9) FIVE-YEAR IMPLEMENTATION ROADMAP (2026–2031)

The implementation roadmap provides a phased approach for achieving the strategic objectives of the institution. Each year focuses on specific milestones to ensure systematic growth and measurable outcomes.

Year 1: 2026–2027

Foundation and Transformation Initiation

Academic Development

Major activities:

- Initiate the process for strengthen academic autonomy.
- Design a strong curriculum structure.
- Implement NEP 2020-based academic practices.
- Strengthen Outcome Based Education (OBE).
- Develop frameworks for Minor and Honors degree programmes.
- Improve academic and accreditation documentation and accreditation readiness.
- Implementation of Autonomous Curriculum

Research and Innovation

Initiatives:

- Establish institutional research policy.
- Create research clusters in emerging technologies.
- Launch seed money support for faculty research.
- Strengthen Patent and Intellectual Property Rights (IPR) Cell.



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- Encourage faculty publications.

Infrastructure Development

Projects:

- Development of smart classrooms.
- ERP implementation.
- LMS integration.
- Digital library enhancement.
- Modernization of laboratories.

Student Development

Activities:

- Placement enhancement programmes.
- Industry skill certifications.
- Internship coordination.
- Technical clubs strengthening.

Year 2: 2027–2028

Expansion and Capacity Building

Academic Initiatives

- Introduction of interdisciplinary electives.
- Flexible credit system.
- Skill-based courses.
- Industry-integrated courses.

Research Initiatives

- Increase consultancy activities.
- Submit funded research proposals.



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- Establish innovation centre.
- Promote startup activities.

Infrastructure

Development of: Artificial Intelligence Laboratory.

- Drone Laboratory.
- Robotics Laboratory.
- Advanced computing facilities.

Student Development

- International internship opportunities.
- Foreign language training.
- Professional certifications.
- Entrepreneurship programmes.

Year 3: 2028–2029

Consolidation and Recognition

Academic Excellence

Initiatives:

- Complete digital learning ecosystem.
- Expand blended learning.
- Integrate MOOCs into curriculum.
- Promote project-based learning.
- Experiential Learning

Research Growth

- Increase Scopus publications.
- Commercialize selected patents.
- Establish industry research partnerships.



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- Improve funded research activities.

Quality Improvement

Activities:

- Entry in NIRF ranking within 101-150 band.
- Strengthen NAAC documentation.
- Conduct institutional benchmarking.

Student Innovation

Activities:

- Startup incubation.
- Innovation competitions.
- Technology exhibitions.
- Industry mentorship.

Year 4: 2029–2030

Global Expansion and Sustainability

Academic Development

Initiatives:

- Develop global academic collaborations.
- Introduce international learning opportunities.
- Strengthen industry-designed curriculum.

Research Development

Activities:

- Establish Centres of Excellence.
- Develop international research collaborations.
- Increase collaborative publications.



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Campus Sustainability

Projects:

- Solar energy expansion.
- Green campus initiatives.
- Smart campus development.
- Sustainable infrastructure.

Year 5: 2030–2031

Institutional Excellence and National Recognition

- To become private University under RajaRajeswari Group of Institutions
- Strong University academic framework.
- National recognition.
- International partnerships.
- Sustainable innovation ecosystem.
- Higher accreditation achievements.
- Improved university ranking.



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10) FINANCIAL RESOURCE AND BUDGET FRAMEWORK

Successful implementation of the IDP requires effective financial planning and resource mobilization.

The institution will adopt a sustainable financial strategy through:

Internal Resource Generation

Sources:

- Tuition fee.
- Consultancy services.
- Industry-sponsored projects.
- Training programmes.

External Funding Sources

The institution will seek support through:

- Government schemes.
- AICTE initiatives.
- UGC programmes.
- Research funding agencies.
- Industry collaborations.

Indicative Development Investment Areas

Development Area	Priority
Research Laboratories	High
Digital Infrastructure	High
Smart Classrooms	High
Faculty Development	High



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Development Area	Priority
Innovation Centre	High
Green Campus	Medium
International Collaboration	Medium

11) RISK MANAGEMENT FRAMEWORK

The institution recognizes potential risks during implementation and has developed mitigation strategies.

Risk 1: Regulatory Changes

Possible Impact

Changes in higher education policies may affect implementation.

Mitigation Strategy

- Continuous monitoring of UGC, AICTE and government policies.
- Regular compliance review.

Risk 2: Financial Sustainability

Possible Impact

Large-scale infrastructure and research investments require significant resources.

Mitigation Strategy

- Diversification of funding sources.
- Industry collaboration.
- Consultancy development.

Risk 3: Technology Challenges

Possible Impact

Rapid technological changes may create infrastructure gaps.



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Mitigation Strategy

- Periodic technology upgrades.
- Industry expert consultation.
- Digital transformation planning.

Risk 4: Cybersecurity

Possible Impact

Increased digital systems require protection.

Mitigation Strategy

- Cybersecurity framework.
- Data backup systems.
- Security audits.

Risk 5: Academic Continuity

Possible Impact

Unexpected disruptions may affect teaching-learning activities.

Mitigation Strategy

- Digital learning preparedness.
- Hybrid teaching models.
- Emergency academic plans.



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12) KEY PERFORMANCE INDICATORS (KPIs)

The progress of the IDP will be measured through clearly defined institutional performance indicators.

Area	Target by 2031
Academic Autonomy	Achieved
NAAC Accreditation	A+ Grade
NBA Accreditation	100% Eligible Programmes
NIRF Ranking	Top 150 Engineering Institutions
Scopus Publications	1000+
Patent Applications	100
Research Funding	₹10 Crore
Consultancy Revenue	₹5 Crore
Placement Rate	Above 95%
Internship Participation	100%
Higher Studies	Above 25%
International MoUs	30
Student Start-ups	30+
Faculty with PhD	Above 80%



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13) MONITORING AND EVALUATION FRAMEWORK

The implementation of the Institutional Development Plan will be continuously monitored through a structured review mechanism.

Monitoring Structure

Governing Council

Role:

- Strategic approval.
- Policy guidance.
- Annual performance review.

Principal and Institutional Leadership

Role:

- Implementation supervision.
- Resource allocation.
- Strategic coordination.

IQAC

Role:

- Quality monitoring.
- KPI tracking.
- Accreditation preparation.

Department Heads

Role:

- Department-level execution.
- Academic improvement.
- Performance reporting.



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Review Frequency

Review Type	Frequency
Department Review	Monthly
Progress Review	Quarterly
Strategic Review	Annually
IDP Evaluation	Every Year

14) SUSTAINABILITY AND SOCIAL RESPONSIBILITY PLAN

The institution will integrate sustainability principles into academic, administrative, and campus activities.

Green Campus Initiatives

Major activities:

- Renewable energy adoption.
- Energy conservation.
- Rainwater harvesting.
- Waste segregation and recycling.
- Plastic-free campus.
- Green landscaping.

SDG Alignment

The IDP contributes towards:

- Quality Education (SDG 4)
- Industry Innovation and Infrastructure (SDG 9)
- Sustainable Communities (SDG 11)
- Climate Action (SDG 13)



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- Partnerships for Goals (SDG 17)

15) EXPECTED OUTCOMES BY 2031

At the completion of the five-year strategic plan, Dr. A.C.S. College of Engineering is expected to achieve:

Academic Excellence

- Successful transition towards autonomy.
- Flexible and multidisciplinary education.
- Industry-relevant curriculum.
- Improved student learning outcomes.

Research Excellence

- Strong research ecosystem.
- Increased publications and patents.
- Higher funded research projects.
- Active innovation and startup culture.

Student Success

- Excellent placement performance.
- Increased entrepreneurship.
- Strong industry readiness.
- Better higher education opportunities.

Institutional Recognition

- Improved NAAC and NBA performance.
- Higher NIRF visibility.
- National-level reputation.



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- International academic partnerships.

Sustainable Growth

- Green and smart campus.
- Digital governance.
- Environment-friendly operations.
- Greater social contribution

PRINCIPAL