INSTITUTIONAL DEVELOPMENT PLAN (2025–2035)

ROEVER ENGINEERING COLLEGE
PERAMBALUR

1. Vision of the Institute

Envisioned to excel in providing quality technical education with social responsibility.

2. Mission of the Institute

- **M1:** To strengthen the academic practices through curriculum enrichment, teaching-learning and faculty competence.
- **M2:** To promote collaborative learning through industry-institute interaction and partnership, research & development activities.
- **M3:** To nurture leadership qualities through lifelong learning, entrepreneurship to fulfil the societal needs.

3. CURRICULAR ASPECTS

Launch new **UG, PG, and Ph.D. programs** in emerging domains such as **Artificial Intelligence, Cybersecurity, Data Science, Renewable Energy**, and **Green Technologies**.

Attain **Autonomous Status by 2028**, enabling flexible, multidisciplinary curricula aligned with **NEP 2020**.

Expand the **Choice-Based Credit System (CBCS)** to incorporate **25% interdisciplinary** and **50% project/problem-based learning**.

Embed **industry-aligned value-added courses**, mandatory **internships**, and **skill certifications**.

Design curricula to develop **global competencies**, **entrepreneurial mindset**, and **societal relevance**.

4. TEACHING-LEARNING AND EVALUATION

- Transform pedagogy through **ICT-enabled teaching**, including **flipped classrooms, e-content**, and **LMS integration**.

- Achieve **100% Ph.D.-qualified faculty** by 2030 and encourage **international faculty exchange programs**.

- Establish a **Centre for Teaching-Learning Excellence (CTLE)** for continuous faculty training in innovative and inclusive methods.

- Reform assessment practices with **formative evaluation, rubrics-based grading**, and **online proctoring systems**.

- Fully implement **Outcome-Based Education (OBE)** with clearly defined **Program Outcomes (POs)** and **Course Outcomes (COs)**.

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5. RESEARCH, INNOVATION, AND EXTENSION

- Increase annual research output to over **200 publications** in **SCI/Scopus-indexed** journals with a growing **h-index**.
- Secure **Rs. 50+ lakh annually** in funded research projects from **AICTE, DST, DBT**, and **industrial collaborations**.
- Set up an **Innovation and Incubation Centre** to nurture startups, particularly from **rural and underrepresented innovators**.
- Execute **2 MoUs per department per year** with industry and academic institutions for collaborative R&D.
- File **5 patents annually** and promote **at least one student/alumni-led startup** per year.
- Conduct **1 international conference**, **2 faculty development programs**, and **2 technical workshops** per department annually.

6. INFRASTRUCTURE AND LEARNING RESOURCES

- Upgrade all labs with **smart technologies**, establish **virtual labs**, and create **centralized digital learning spaces**.
- Develop a **Centre of Excellence** in each department focused on **thrust research areas** like AI, IoT, and Renewable Energy.
- Expand campus infrastructure using **green building principles**, ensuring **accessibility and sustainability**.
- Ensure campus-wide access to **high-speed Wi-Fi**, **cloud-based e-resources**, and **remote learning platforms**.

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7. STUDENT SUPPORT AND PROGRESSION

Target **100% placement** in core sectors with **structured internship programs** in leading organizations.

Introduce compulsory **MOOCs**, **career counseling**, **foreign language training**, and **life skills development**.

Enable at least **10% of graduates** to pursue **higher education abroad or in premier Indian institutions**.

Strengthen student engagement through **clubs and forums** for **innovation, arts, sports**, and **social service**.

Encourage student participation in **national/international contests** and aim for **awards in academics and co-curriculars**.

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8. GOVERNANCE, LEADERSHIP AND MANAGEMENT

- Achieve **complete e-governance** in academic, administrative, and financial operations by 2027.
- Secure **NBA accreditation** for all departments and strive to upgrade **NAAC rating to Grade 'A' or above** by 2030.
- Target inclusion in **Top 150 NIRF rankings** through continual quality enhancement.
- Appoint **Professors of Practice** from industry to lead niche courses and bridge academia-industry gaps.
- Strengthen **alumni relations** by establishing active chapters across major cities in **India and abroad** for mentorship, funding, and placement support.

9. INSTITUTIONAL VALUES AND BEST PRACTICES

- Achieve **100% renewable energy** usage through solar installations and periodic **energy audits**.
- Implement robust **waste management** and **rainwater harvesting systems** to ensure sustainable campus operations.
- Initiate at least **one green initiative per year** (e.g., afforestation drives, e-waste management, and plastic-free campaigns).
- Promote **community service and rural development** through active **NSS/NCC participation** and village outreach programs.
- Integrate **Global Citizenship Education** to shape **socially responsible, ethical engineers**.
- Foster **international collaborations** for **joint research**, **faculty/student exchanges**, and **dual degree programs**.

This Institutional Development Plan (2025–2035) **is envisioned to transform the institution into a globally competitive, socially responsive, and technologically advanced centre of learning that meets the aspirations of students, industry, and society at large.**