

"Empowerment through Quality Technical Education"



D Y PATIL GROUP

AJEENKYA

DY PATIL SCHOOL OF ENGINEERING

Institute Development Plan: 2023-2038



INSTITUTE DEVELOPMENT PLAN 2023-2038

**Dr D Y Patil Educational Enterprises
Charitable Trust's**

Ajeenkya DY Patil School of Engineering

Dr Ajeenkya DY Patil Knowledge City,
Charholi (Bk.), Via- Lohegaon, Pune
412105, Maharashtra, India.

www.adypsoe.in

MISSION:

- M1: To achieve excellence in teaching, learning, and research
- M2: To impart skill-based education to meet the needs of industry and Society
- M3: To excel as a center of excellence in technical education
- M4: To inculcate social & ethical values among the students

Institute Development Plan (IDP)

Ajeenkya DY Patil School of Engineering (ADYPSOE), Pune, is fully aligned with the UGC Guidelines for Institutional Development Plans (IDP) and contextualized to an engineering institution under NEP 2020.

The structure, language, and components strictly follow the UGC IDP framework and enabler-based approach.

INSTITUTE DEVELOPMENT PLAN (IDP)

Ajeenkya DY Patil School of Engineering, Pune

Time Horizon: 15 Years (2023–2038)

(Reviewed every 3 years with annual action plans)


I. PREAMBLE

Ajeenkya DY Patil School of Engineering (ADYPSOE), Pune, envisions itself as a **future-ready engineering institution** committed to excellence in **teaching, research, innovation, entrepreneurship, and social impact**. In alignment with the **UGC IDP Guidelines**, **National Education Policy (NEP) 2020**, **Sustainable Development Goals (SDGs)**, **National Credit Framework (NCrF)**, and **Academic Bank of Credits (ABC)**, this Institutional Development Plan (IDP) serves as a **strategic roadmap** for holistic institutional growth.

The IDP reflects ADYPSOE's commitment to:

- Quality and relevance in engineering education
 - Industry-integrated and skill-based learning
 - Research, innovation, and start-up ecosystems
 - Digital transformation and global engagement
 - Inclusive, ethical, and sustainable development
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II. SOCIAL AND ACADEMIC MISSION

2.1 Social Mission

In accordance with UGC's social mandate, ADYPSOE commits to:

- Ensuring equitable access to quality engineering education, including support for PwD, SEDGs, and economically weaker sections
- Addressing societal and regional challenges through technology-driven solutions
- Promoting gender equity, inclusivity, environmental sustainability, and community engagement
- Enhancing employability, entrepreneurship, and lifelong learning

2.2 Academic Mission

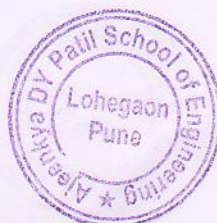
The academic mission of ADYPSOE is to:


- Deliver multidisciplinary, flexible, and outcome-based engineering education
- Foster critical thinking, innovation, ethical values, and constitutional principles
- Integrate skills, vocational education, and experiential learning into curricula
- Promote research-led teaching and global academic standards

III. BASIC PRINCIPLES GUIDING THE IDP

In line with UGC principles, the IDP is guided by:

1. Academic autonomy with accountability
2. Learner-centric and outcome-based education
3. Multidisciplinarity and flexibility
4. Integration of skilling with higher education
5. Digital enablement and innovation
6. Inclusivity, transparency, and good governance
7. Continuous improvement and quality assurance




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IV. SWOC ANALYSIS (Strategic Diagnosis)

Strengths

- Located in Pune – a major education and industry hub
- Strong parent brand: Ajeenkya DY Patil Group
- Industry-aligned programs and modern infrastructure
- Young, dynamic faculty base

Weaknesses

- Limited externally funded research
- Need for a higher PhD-qualified faculty ratio
- Limited international collaborations

Opportunities

- NEP 2020 reforms and flexible curricula
- Industry 4.0 / 5.0 demand (AI, Data Science, EVs, Robotics)
- Start-up and innovation ecosystem in Maharashtra
- Global mobility through ABC and NCrF

Challenges

- Intense competition among private engineering institutions
- Rapid technological obsolescence
- Faculty retention and research funding

V. STRATEGIC GOALS (2023–2038)

Aligned with UGC's indicative strategic goals, ADYPSOE adopts the following:

1. Achieve academic excellence with global relevance
2. Develop a robust industry-integrated curriculum
3. Establish a sustainable research and innovation ecosystem
4. Enhance student employability and entrepreneurship
5. Strengthen governance, autonomy, and compliance



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6. Ensure financial sustainability and resource diversification
7. Promote internationalization of education
8. Build a digitally empowered and green campus
9. Foster inclusive, ethical, and value-based education

VI. DEVELOPMENT OBJECTIVES (CATEGORY-WISE)

A. Academic & Curriculum Excellence

- Implement OBE-based curricula aligned with NCrF
- Introduce minor degrees, interdisciplinary electives, and flexible exits
- Integrate internships, industry projects, and capstone design
- Embed Indian Knowledge Systems (IKS) and ethics

B. Research & Innovation

- Establish Research & Innovation Cell (RIC)
- Identify thrust areas: AI, IoT, EVs, Smart Manufacturing, Sustainability
- Increase Scopus/WoS publications and patents
- Promote faculty–student research clusters
- Develop IPR, incubation, and start-up support


C. Faculty & Human Resource Development

- Achieve 75–80% full-time qualified faculty
- Encourage PhD enrollment, FDPs, and industry exposure
- Implement transparent performance appraisal and incentives
- Leadership development and succession planning

D. Governance & Compliance

- Strengthen BoG, Academic Council, Finance Committee
- Ensure compliance with UGC, AICTE, NAAC, NBA
- Implement IQAC-driven quality assurance
- Stakeholder participation, including alumni




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E. Financial Sustainability

- Diversify revenue through:
- Sponsored research & consultancy
- Industry-funded labs
- Alumni contributions & CSR
- Executive and certification programs
- Adopt professional financial management systems

F. Industry, Networking & Collaborations

- MoUs with industries, start-ups, research labs
- Joint curriculum design and co-teaching
- International academic collaborations
- Community and societal engagement projects


G. Physical & Green Campus Development

- Smart classrooms and advanced laboratories
- Green campus initiatives: solar energy, water harvesting
- Universal accessibility for PwD
- Modern hostels, sports, and wellness facilities

H. Digital Transformation

- LMS-based blended learning
- Virtual labs, MOOCs, and digital repositories
- ABC implementation and credit mobility
- AI-enabled academic and administrative systems




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VII. OPERATIONALISATION & IMPLEMENTATION FRAMEWORK

Component Mechanism

Governance: IDP Steering Committee under BoG

Planning: 15-Year Vision + 5-Year Rolling Plan

Execution: Annual Action Plans (AAPs)

Monitoring: KPIs, dashboards, IQAC reviews

Review: Annual & triennial reviews

Stakeholders Faculty, students, alumni, industry

VIII. KEY PERFORMANCE INDICATORS


- Graduate employability rate (>85%)
 - Research publications per faculty
 - Number of funded projects and patents
 - Start-ups incubated
 - International MoUs and student mobility
 - Accreditation outcomes (NAAC/NBA)
 - Faculty qualification and retention rates
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IX. REVIEW, FEEDBACK & CONTINUOUS IMPROVEMENT

The IDP shall be:

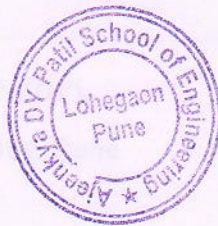
- Reviewed annually by IQAC
 - Updated every 3 years
 - Benchmarked against national and global best practices
 - Aligned with evolving regulatory and technological changes
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X. CONCLUSION

This Institutional Development Plan positions Ajeenkya DY Patil School of Engineering, Pune as a progressive, autonomous, and socially responsive engineering institution, aligned with UGC IDP guidelines, NEP 2020, and global expectations. Through strategic governance, academic innovation, research excellence, and stakeholder engagement, ADYPSOE aspires to contribute meaningfully to nation-building and global knowledge society.



A handwritten signature in green ink, appearing to be "B. G. Patil".

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