Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
DEEMED TO BE
University
(Estd. u/s 3 of UGC Act, 1956)
Avadi, Chennai

Accredited by NAAC HIGHEST GRADE A++

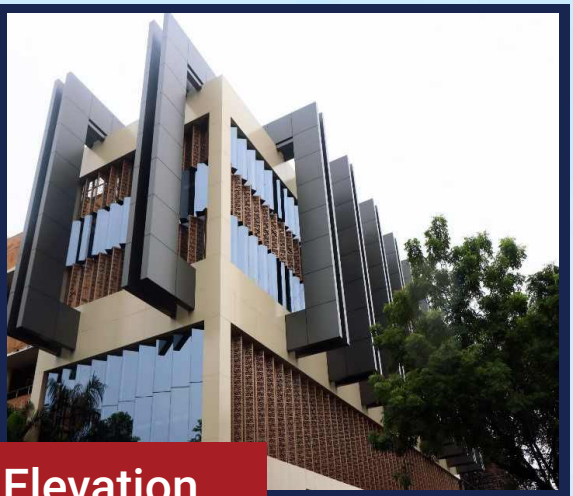
Recognised as CATEGORY-1 DEEMED TO BE UNIVERSITY by the UGC University Grants Commission

Vel Tech Institutional Development Plan

2026-2040

Continuous Review → Feedback → Strategic Refinement

Vel Tech Entrance



Vel Tech Elevation

Message from Honorable Chancellor

Vel Tech University was founded with a clear purpose—to create an institution that combines academic rigor, discipline, innovation, and societal commitment. The Institutional Development Plan (IDP) 2026–2040 reflects this founding vision, translated into a strategic and time-bound roadmap aligned with the National Education Policy 2020 and the UGC Guidelines for Institutional Development Plans. "This plan outlines Vel Tech's transformation into a globally respected…" research-driven, and industry-integrated university, while remaining firmly rooted in national priorities and ethical values.

The IDP 2026–2040 emphasizes strong governance, academic excellence, research and innovation leadership, global visibility, and capacity development of faculty and students as the enablers of sustainable institutional growth. By strengthening international collaborations, fostering entrepreneurship, investing in human capital, and building smart and green infrastructure, Vel Tech aims to contribute meaningfully to national development and global knowledge ecosystems. I firmly believe that with the collective commitment of our faculty, students, administrators, alumni, and all other stakeholders, Vel Tech will continue to set new benchmarks in higher education and emerge as an institution of enduring relevance and global impact.

Col. Prof. Vel Dr. R. Rangarajan
Chancellor
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology

Message from Honorable Vice Chancellor

It gives me great pleasure to present the Institutional Development Plan (IDP) 2026–2040 of Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology. This plan represents our collective vision to transform Vel Tech into a globally visible, research-intensive, innovation-driven, and socially responsible university, aligned with the aspirations of NEP 2020 and the UGC Guidelines for Institutional Development Plans.

Vel Tech has consistently demonstrated its academic credibility through NAAC A++ accreditation, strong performance in NIRF India Rankings, a vibrant research and innovation ecosystem, and a robust Technology Business Incubator. Building on this strong foundation, the IDP 2026–2040 charts a clear and outcome-oriented roadmap to achieve academic excellence, research leadership, global engagement, industry integration, and inclusive growth over the next fifteen years.

The IDP is structured around key enablers identified by the UGC, with a strong emphasis on good governance, academic flexibility, multidisciplinary education, faculty and student capacity building, financial sustainability, digital transformation, and international collaboration. It reflects our commitment to autonomy with accountability, data-driven decision-making, and "stakeholder participation" including alumni and industry partners.

Academic excellence remains central to this plan. Vel Tech will continue to strengthen NEP 2020–aligned curricula, promote experiential and industry-enabled learning, and integrate digital, AI-enabled, and blended pedagogies across programmes. Our focus on faculty development, leadership pipelines, and research mentorship aims to create a globally competitive academic community capable of addressing national and global challenges.

Research, innovation, and entrepreneurship form another critical enabler of the IDP. The plan envisages a significant expansion of internationally co-authored research, funded projects, intellectual property generation, technology transfer, and startup incubation, supported by state-of-the-art infrastructure, Centres of Excellence, and strategic industry and global partnerships.

Global visibility and collaboration are key priorities of Vel Tech's long-term vision. Through structured student and faculty mobility, joint and dual degree programmes, international research consortia, international conferences, and alignment with the UN Sustainable Development Goals, Vel Tech aspires to strengthen its international footprint and contribute meaningfully to global knowledge ecosystems.

Equally important is our commitment to inclusive, sustainable, and student-centric growth. The IDP emphasizes smart and green campus development, digital governance, enhanced student support systems, and meaningful community engagement, ensuring that growth is both equitable and impactful.

I am confident that the successful implementation of the Vel Tech IDP 2026–2040 will position the University as a model institution of national importance with global relevance, nurturing future-ready graduates, thought leaders, innovators, and responsible citizens.

I sincerely acknowledge the contributions of faculty members, administrators, students, alumni, industry partners, and all stakeholders who have shaped this strategic vision. I invite all members of the Vel Tech community to actively participate in realizing this ambitious roadmap and taking Vel Tech to greater heights.

Together, we move forward — with purpose, excellence, and global impact.

Prof. Rajat Gupta
Vice Chancellor
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology

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Vision

To become a research-intensive institution of global excellence, advancing frontier knowledge through innovation, interdisciplinary research, and global engagement for the sustainable development of society.

Mission

- To deliver globally benchmarked education through outcome-based curricula, experiential learning, and integration of emerging technologies.
- To promote a research-driven academic ecosystem that fosters inquiry, innovation & entrepreneurship, interdisciplinary research, and creation of new knowledge addressing sustainable development goals.
- To strengthen industry, national, and international collaborations for joint research, innovation, faculty exchange, and student mobility.
- To nurture ethical values, leadership, and professional excellence among students and faculty to meet global challenges responsibly.
- To enhance diversity, gender equity, and inclusion by creating an ecosystem for all stakeholder.

Each faculty member is required to be associated with a minimum of one research project

Executive Summary

This Strategic Institutional Development Plan (IDP) articulates Vel Tech's long-term vision to emerge as a globally recognized, research-intensive university by 2040. Anchored in nine enablers of excellence, the plan adopts a phased roadmap with clearly defined short-term (2030), medium-term (2035), and long-term (2040) goals, taking 2025 as the base year. The strategy emphasizes academic excellence, research excellence, capacity building – faculty and student, global visibility and collaborations, innovation, incubation and entrepreneurship, sustainability development goals & extension activities, industry collaboration and alumni engagement, governance and finance and infrastructure and facilities.

Established in 1997 by the Founder President & Chancellor, Col. Prof. Vel. Dr. R. Rangarajan, and the Foundress President, Dr. Sagunthala Rangarajan, Vel Tech was founded with the vision of creating socially responsible and professionally competent citizens. The institution is committed to providing high-quality education with equitable access to students from all strata of society. A strong academic ecosystem, well-equipped infrastructure, competent faculty, and a wide range of co-curricular and extracurricular activities ensure the holistic development of students.

Vel Tech offers students extensive exposure to industry and global academia through courses taught by industry experts and eminent international faculty members. Many graduates complete internships with reputed industries and research organizations in India and abroad. The University has established a state-of-the-art Research Park comprising a three-floor facility housing 23 cutting-edge research centers and Centres of Excellence, fostering advanced research and development. Its strategic location near industrial clusters such as SIDCO Women's Industrial Estate, ACMA member industries, AIMA, and major IT parks including TIDEL Park further strengthens industry engagement.

The University has adopted the internationally recognized CDIO (Conceive–Design–Implement–Operate) framework to enhance outcome-based engineering education through interdisciplinary and problem/ project based learning. Guided by the National Education Policy (NEP) 2020, Vel Tech has effectively implemented holistic and multidisciplinary education, flexibility and choice, digital transformation, internationalization, Indian Knowledge Systems (IKS), Academic Bank of Credits, and skill development initiatives.

Vel Tech actively promotes research, innovation, and entrepreneurship through structured incentive programs supporting high-quality publications, patents, funded projects, consultancy, and startups. Entrepreneurship development is driven through the in-house Vel Tech Technology Business Incubator (TBI), established in 2010 with support from the Ministry of Science and Technology, Government of India.

The institution is accredited by the National Accreditation and Assessment Council (NAAC) with an 'A++' grade (CGPA 3.53) in its second cycle and is recognized as a Category-I Deemed to be University by the UGC, along with 12B status, enabling enhanced access to research funding. Seven undergraduate engineering programs are accredited by the National Board of Accreditation (NBA) under Tier-I. Besides, our MBA program is also accredited by

the NBA. In the NIRF India Rankings 2025, Vel Tech secured the 87th rank in Engineering, with consistent top-100 engineering rankings for nine consecutive years and a ranking band of 11–50 in Innovation. The University also features in the Times Higher Education World University Rankings and QS Asia University Rankings.

With a strong global outlook, Vel Tech has established international collaborations with over 600 institutions across 42 countries and signed more than 200 MoUs. The University was conferred the "ISTE National Award for Best Technical University 2023," recognizing its excellence in technical education and service to society. Complementing academic rigor, Vel Tech places strong emphasis on extracurricular and co-curricular activities through more than 30 technical and cultural clubs, along with active NSS units and NCC (Air, Naval, and Army Wings), fostering leadership, discipline, and social responsibility among students.

Unique Selling Point

Main Focus of Vel Tech IDPs for the Next 15 Years,

- **Achieve academic excellence through effective implementation of the National Education Policy (NEP) 2020.**
- **Develop Vel Tech as a research-centric, multidisciplinary university addressing national and global demands in education and research through diversified academic programs.**
- **Deliver high-quality education through highly qualified faculty and a holistic, student-centric learning ecosystem.**
- **Maintain an optimal faculty–student ratio of 1:15 to ensure personalized mentoring and academic rigor.**
- **Strengthen industry collaboration to enhance experiential learning through internships, live projects, and industry-aligned curricula.**
- **Expand industry-enabled learning by increasing the participation of industry experts in teaching, mentoring, and curriculum design.**
- **Enhance research and innovation through the in-house Research Park, focusing on translational research, IPR generation, and commercialization.**
- **Strengthen the Office of International Relations to promote global collaborations, including student exchange, twinning programs, joint degrees, and specialized courses delivered by international faculty.**
- **Increase faculty and student diversity to foster an inclusive and globally competitive academic environment.**
- **Achieve Top 500 global rankings in QS and Times Higher Education (THE) for Engineering and Management disciplines.**
- **Realize the goal of "One Faculty – One Patent" to boost intellectual property creation and promote commercialization.**
- **Diversify and strengthen alumni engagement to support academics, research, mentoring, placements, and institutional development.**
- **Enhance the capacity of faculty and students through FDPs, industry training programs, workshops, conferences, and technical hackathons.**
- **Ensure placement opportunities for all students, irrespective of academic performance, through skill development and industry readiness initiatives.**
- **Strengthen skill development programs with active industry participation and certification pathways.**
- **Reinforce the activities of the Institution's Innovation Council (IIC) to promote innovation, startups, and entrepreneurship culture.**
- **Expand community engagement through village adoption and outreach programs under Unnat Bharat Abhiyan (UBA).**
- **Increase e-content creation and offer a maximum of 40% of courses through MOOC platforms.**
- **Facilitate 100 student projects annually based on real-world industry problems.**
- **Enhance digital tools and smart classroom technologies for effective content delivery and interactive learning.**
- **Promote Sustainable Development Goals (SDGs) through academic programs, research projects, events, and outreach activities.**
- **Foster a strong Technology Readiness Level (TRL) culture among faculty and students to accelerate innovation and technology development.**

SWOC Analysis

Strengths

- **Strong foundation in research, incubation, and innovation**
- **NAAC A++ accreditation with consistent Top 100 ranking in NIRF**
- **Robust Technology Business Incubator ecosystem supporting 300+ startups**
- **National and international collaborations with IITs, NITs, industry leaders, and global institutions**
- **Central Instrumentation Facility with advanced equipment and specialized research centers**
- **Seven undergraduate engineering Programs has been accredited by NBA under Tier I category and one MBA program is also accredited by NBA**
- **Implementation of CDIO Engineering curricular framework**
- **Strong Incentive Policy to Promote Research and Innovation**
- **Well-structured academic and financial system**
- **Dedicated office of Industry relations to bring more industry engagement**
- **Dedicated office of International relations to support foreign university engagement and students exchange**
- **Seed Money and Research & Development fund to promote cutting edge research**
- **Dedicated IPR Support**
- **SDGs focused event VISAI – an annual international level project completion cum expo**
- **Semester long internship programme for students**

Weaknesses

- **Limited presence in global rankings such as QS and THE**
- **Need to enhance faculty research output and Q1 journal publications**
- **Relatively low international student enrollment**
- **Alumni contributions and global visibility still at a developing stage**
- **Limited international faculty ratio (<2%)**
- **Uneven Q1 publication distribution across departments**
- **Low industry-sponsored PhD intake**
- **Dependence on tuition fee revenue**

Opportunities

- Strong alignment with NEP 2020 reforms and the India@2047 vision
- Increasing demand for deep-tech, AI, clean energy, and sustainable technologies
- Scope to expand the startup ecosystem and industry partnerships
- Potential to attract global faculty, researchers, and international students
- Opportunity to strengthen global brand through SDG-linked projects and innovation hubs
- NEP schemes:
- ABC, APAAR, NCrF
- PMRF, ANRF, NIDHI, IKS
- Teaching advances:
- AI-enabled assessment
- Micro-credentials
- Research advances:
- Deep-tech, Bio-AI, Semiconductors

Challenges

- Intensifying competition from global and Indian private universities
- Rapid technological advancements requiring continuous adaptation
- Dependence on government funding and evolving regulatory frameworks
- Global challenges such as sustainability and climate change affecting higher education systems

NEP Component	2026 - 30	2031 - 35	2036 - 40
Holistic and Multidisciplinary Education	✓	✓✓	✓✓✓
ABC / APAAR	✓	✓✓	✓✓✓
Multidisciplinary UG	✓	✓✓	✓✓✓
Multiple Entry–Exit	✓	✓✓	✓✓✓
Research UG Track	✓	✓✓	✓✓✓
Digital University	✓	✓✓	✓✓✓
Integration of arts, humanities, sciences, technology, sports, and vocational studies.	✓	✓✓	✓✓✓
Strengthening of innovation, incubation, IPR, and startup ecosystems within HEIs.	✓	✓✓	✓✓✓
Shift towards learner-centric, experiential, and competency-based learning.	✓	✓✓	✓✓✓
Equity, Inclusion and Access	✓	✓✓	✓✓✓
continuous and formative assessment.	✓	✓✓	✓✓✓
Alignment with employability and entrepreneurship goals.	✓	✓✓	✓✓✓

ENABLER 1: ACADEMIC EXCELLENCE 2026-2040

Vel Tech's Academic Excellence roadmap (2026–2040) outlines a comprehensive growth strategy focused on expanding student strength, diversifying academic programs, and ensuring full NEP-2020 alignment with multidisciplinary and outcome-based education. The plan targets major improvements in assessments, digital learning, and accreditations including NAAC, NBA, ABET, and national and global rankings such as NIRF, THE, and QS. Faculty strength, industry experts, research output, and student employability are set to grow significantly, supported by strong investments, advanced infrastructure, and integrated mentoring systems. Emphasis is placed on innovation, inclusivity, wellness, and leadership, with progressive goals for placement rates, skill certifications, national and international awards, interdisciplinary projects, and female enrollment—positioning Vel Tech as a globally competitive and academically transformative institution by 2040.

Strengths & Achievements:

- **CDIO Innovative Engineering curricular framework**
- **NEP 2020–aligned Choice Based Credit System (CBCS) enabling academic flexibility, interdisciplinary learning, and multiple learning pathways.**
- **Clearly structured credit framework with well-defined lecture, tutorial, practical, project, and self-learning hours mapped as per the National Credit Framework.**
- **Strong emphasis on experiential learning, with embedded Project/Problem Based Learning (PBL), internships, industry projects, and community service components.**
- **Robust Self-Learning (SL) ecosystem including research, innovation labs, startups, hackathons, MOOCs, vocational education, sports, cultural activities, and social engagement.**
- **Industry and Higher Learning Institute (IHL) courses integrated into the curriculum to bridge academia–industry gaps and enhance employability.**
- **Students Exchange Programme – Dedicated office of International Relations**
- **Flexible academic mobility through provisions for migration, multiple entry/exit, credit transfer, and Academic Bank of Credits (ABC/APAAR).**
- **Wide range of academic options including Major, Specialization, Minor, Honours, and Honours with Research, supporting advanced learners and research-oriented students.**
- **Transparent and comprehensive assessment system, combining Continuous Internal Assessment (CIA), Semester End Examinations (SEE), assignments, projects, and attendance-based evaluation.**
- **Absolute grading system with clearly defined grade points, SGPA/CGPA computation, and degree classification ensuring fairness and clarity.**
- **Provision for MOOCs with credit transfer from approved national platforms (SWAYAM, NPTEL, SWAYAM Plus), encouraging lifelong and blended learning.**
- **Student-centric flexibility through re-registration, extended registration, course withdrawal, and break of study for medical, entrepreneurial, or innovation pursuits.**
- **Strong learner support mechanisms, including mentoring systems, support for fast and slow learners, and professional development opportunities.**
- **Clear governance and quality assurance structure, with defined roles of BoS, Academic Council, and Executive Council for amendments and academic oversight.**
- **Community Service Project – Village connected Programme**
- **Semester long internship – Extended time allowed at industry**
- **Industry problems given as minor Projects**

Short-Term, Medium-Term, Long-Term Goals

Short-Term (2026–2030)

- NEP-2020 Curiculum Rollout
- New Programmes & PG -Integration
- NAAC Level-5 & NBA Expansion
- Digital Assessment Reforms
- Faculty Upskilling & Placement Boost

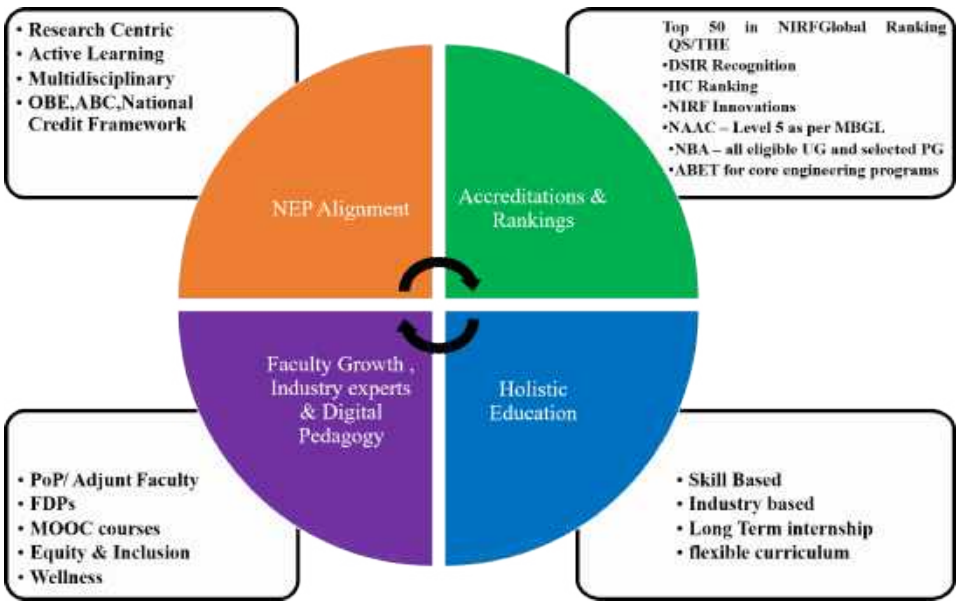
Medium Term (2031–2035)

- Multidisciplinary Programme Expansion
- ABET Accreditation (Core Programmes)
- AI-Enabled Outcome-Based Assessment
- Global Rankings Entry (THE/QS)
- Industry-Integrated Faculty & Learning

Long Term (2036-2040)

- Globally Ranked Research University
- Sustained Academic & Accreditation Excellence
- Smart Campus & Digital Ecosystem
- Global Faculty & Industry Leadership
- High-Impact Outcomes & Equity

Academic Excellence Enabler – Phased Growth Strategy



Short-Term Goals (2026–2030)

During the short-term period, Vel Tech aims to strengthen its academic foundation by increasing student strength from 12,948 to 14,500 and introducing new programmes such as Architecture. The university will implement NEP-2020–aligned multidisciplinary curricula with flexible credit systems and Technology Readiness Level (TRL) integration. Five PG-integrated programmes will be launched by 2030, supported by an initial investment of ₹2 crore between 2025 and 2027. Digital assessment systems will be fully deployed by 2027, along with continuous examination reforms and plagiarism control measures. The institution targets achieving NAAC Level-5 under the Maturity Based Graded Level framework and expanding NBA accreditation to all eligible UG Engineering programmes, MBA, and select PG programmes, while preparing for ABET accreditation. Ranking improvements include reaching the Top 50 in NIRF Engineering, Top 75 in University and Overall categories, and entering QS World University Rankings by 2027. Faculty development will focus on training over 200 faculty members and maintaining a 15:1 student–faculty ratio. Placement outcomes are expected to improve to 80%, with a median package of ₹10 LPA and 50% student participation in skill certification. Equity initiatives will enhance female enrollment to 30%, supported by expanded counseling and wellness facilities.

Medium-Term Goals (2031–2035)

In the medium term, Vel Tech plans to expand student strength to 17,000 and introduce the Medicine programme, further strengthening its multidisciplinary academic ecosystem. NEP-2020 implementation will be fully institutionalized, with PG-integrated programmes expanding to more than ten. Investments will be scaled up to support programme diversification, and AI-enabled adaptive assessments with 100% outcome-based evaluation will be adopted. The university will maintain all national accreditations while achieving ABET accreditation for three core or emerging UG engineering programmes. Ranking aspirations include sustaining the Top 50 in NIRF Engineering, University and Overall categories, and improving global visibility through THE World University Rankings (Top 800) and THE Asia Rankings (Top 400). Faculty capacity building will intensify with over 500 faculty trained and 100 industry professionals inducted as faculty. Student outcomes will further improve, targeting 90% placement and higher studies, a median package of ₹15 LPA, and universal skill certification. Research, innovation, and inclusion efforts will result in 50+ national awards annually, 40% female enrollment, increased post-doctoral researchers, stronger alumni mentoring, and enhanced wellness infrastructure.

Long-Term Goals (2036–2040)

By the long-term phase, Vel Tech envisions becoming a globally recognized, multidisciplinary research-driven university with a student strength of 20,000. Academic systems will be fully institutionalized with continuous investment cycles and sustained excellence in teaching, learning, and assessment. All national and international accreditations will be maintained, while global rankings will significantly improve, aiming for Top 40 positions in NIRF Overall rankings, Top 600 in THE World University Rankings, and multiple disciplines ranked within the Top 1000 in QS rankings. Digital transformation will continue with smart classrooms covering 40% of teaching spaces and LMS platforms integrated with global academic networks. Faculty strength will be augmented with over 150 industry and global experts, while student outcomes will peak at 95% placement with international opportunities and a median salary of ₹20 LPA. Innovation and research will be strengthened through higher numbers of awards, student innovation projects, post-doctoral researchers, and industry collaborations. Equity, wellness, and leadership development will remain central, with female enrollment reaching 50% and a comprehensive, sustainable support ecosystem for students and faculty.

Enabler 1: Academic Excellence (2026–2040) — Summary Roadmap

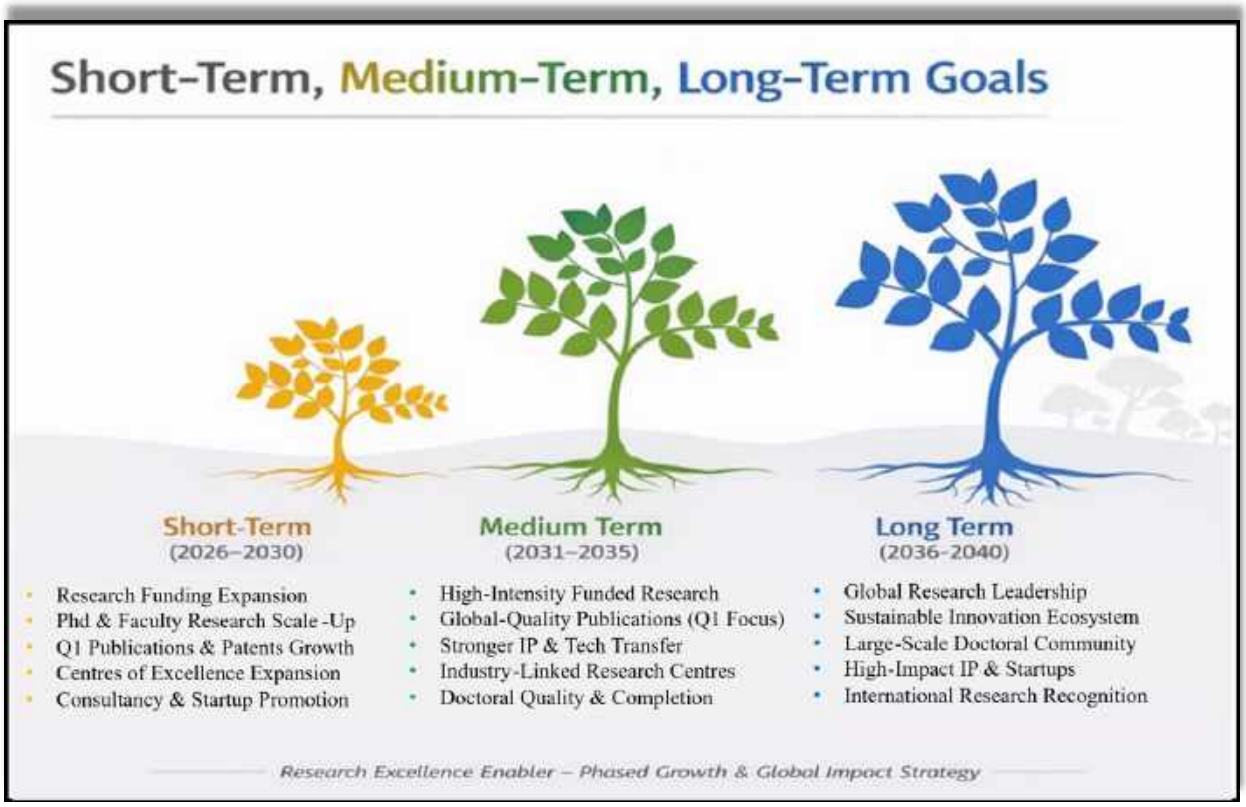
Dimension	Short-Term Goals (2026–2030)	Medium-Term Goals (2031–2035)	Long-Term Goals (2036–2040)
Student Strength & Programs	Increase student strength to ~14,500; introduce Architecture program; launch 5 PG-integrated programs	Expand student strength to ~17,000; introduce Medicine program; expand PG-integrated programs to 10+	Expand student strength to ~20,000; fully mature multidisciplinary program portfolio
Curriculum & NEP Alignment	Full implementation of NEP-2020–aligned multidisciplinary curricula with flexible credits, TRL integration, ABC/APAAR	Institutionalization of NEP practices across UG, PG, and research tracks with AI-enabled adaptive assessment	Sustained NEP leadership with continuous curriculum renewal and global academic benchmarking
Teaching–Learning & Assessment	Deploy digital assessment systems; strengthen continuous evaluation, plagiarism control, OBE implementation	100% outcome-based evaluation with AI-enabled adaptive assessment systems	Fully digitized, globally networked teaching–learning and assessment ecosystem
Faculty Strength & Development	Maintain 15:1 student–faculty ratio; train 200+ faculty in pedagogy, NEP, and digital tools	Train 500+ faculty; induct 100 industry professionals as adjunct/PoP faculty	Augment faculty with 150+ global and industry experts; global academic leadership roles
Accreditations	Achieve NAAC Level-5 (MBGL); NBA for all eligible UG programs; initiate ABET preparation	Sustain national accreditations; achieve ABET accreditation for select core/emerging programs	Maintain all national & international accreditations with global best practices
Rankings & Global Visibility	Top 50 in NIRF Engineering; Top 75 in University & Overall; enter QS rankings	Sustain Top 50 in NIRF; achieve THE World Rankings (Top 800) and THE Asia (Top 400)	Achieve Top 40 NIRF Overall; Top 600 THE World Rankings; QS discipline-level global rankings
Student Outcomes & Employability	80% placements; median package ₹10 LPA; 50% students with skill certifications	90% placements/higher studies; median package ₹15 LPA; universal skill certification	95% placements with global opportunities; median package ₹20 LPA
Equity, Wellness & Inclusion	Increase female enrollment to 30%; expand counseling and wellness facilities	Increase female enrollment to 40%; strengthen inclusive academic and mentoring systems	Achieve 50% female enrollment; comprehensive, sustainable student support ecosystem
Innovation & Experiential Learning	TRL-based curriculum; semester-long internships; industry problems as projects	Deeper integration of industry projects, national competitions, and innovation awards	Global experiential learning models with international internships and innovation leadership

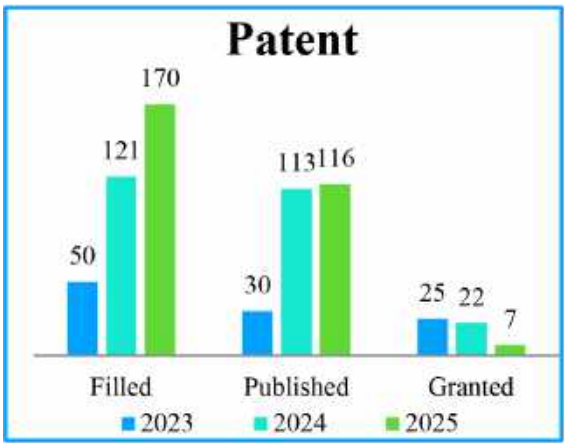
ENABLER 2: RESEARCH EXCELLENCE 2026-2040

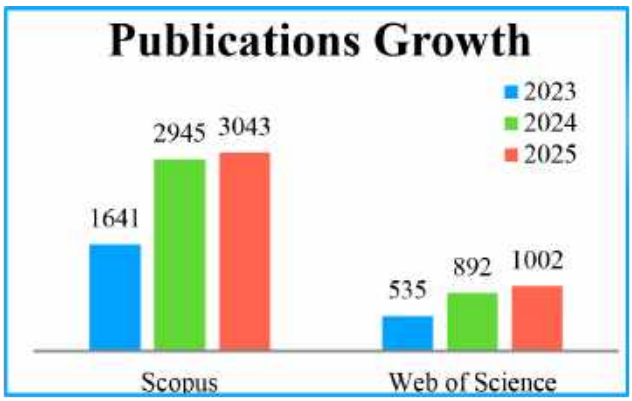
The Research Excellence roadmap (2026–2040) outlines Vel Tech's ambitious plan to scale research funding, productivity, and global impact through a sustained increase in projects, high-quality publications, doctoral scholars, and research-active faculty. The strategy targets major growth in patents, technology transfer revenue, and research-based start-ups while expanding Centres of Excellence and deepening industry collaborations. With strong investments, complete digitization of knowledge resources, enhanced consultancy income, and structured executive development programs, the roadmap emphasizes improving doctoral quality, strengthening research outcomes, and achieving national and international recognition—positioning Vel Tech as a leading research-driven institution by 2040.

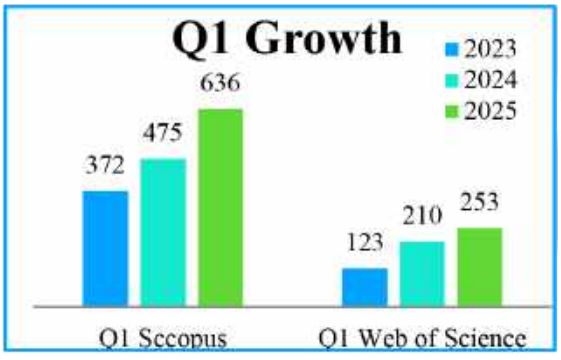
Strength & Achievements

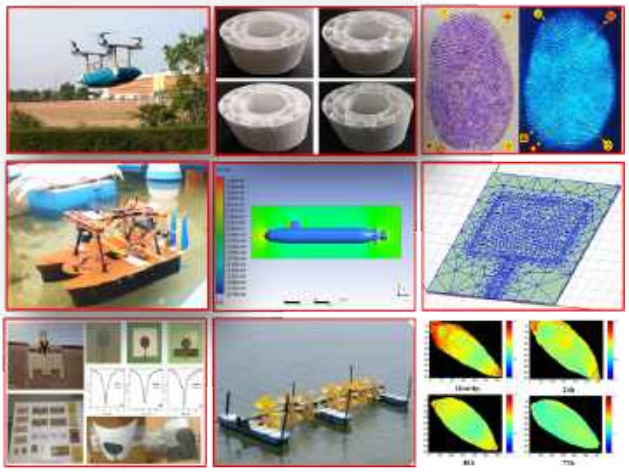
- **Established a dedicated Research Park to foster Research & Development.**
- **23 specialized Research Centers driving Innovation and Research.**
- **Secured ₹70 crore in sponsored project funding.**
- **Seed funding of ₹2 to ₹5 lakh provided by the institute.**
- **Annual Research & Development Fund of ₹50 lakh for the top 75 faculty members.**
- **Partnership with IIT Hyderabad for access to the SATHI CISCoM facility.**
- **DSIR - SIRO Recognized Research centre**
- **Research Policy, Consultancy Policy and IPR policy to guide Research Activities**
- **Central Instrumentation Facility with state-of-the-art facilities such as FESEM, XRD, Optical Microscope, Bio reactor, Particle Size analyzer, AAS et.,**
- **30+ collaborations with National institutes including IIT, CSIR, DRDO Laboratories**
- **Financial Support for quality publications**
- **Incentive for quality research publications, Patent & Sponsored projects**











Technology Developed at Vel Tech

Central Instrumentation Facility

Optical Microscope Facility

TGA Facility

Bioreactor Facility

Major Equipment in the Research park and Centers of Excellence

- FESEM
- Optical Microscope
- Thermal Gas Analyser
- XRD
- Bio reactor System
- Particle Size Analyzer
- Impedance Alalyzer
- UV Spectrometry
- High Speed Centrifuge
- FTIR
- Atomic Absorption Spectrometry

Vel Tech Research Centers

- CoE for Manufacturing
- E-waste and Plastic waste recycling facility
- Additive Manufacturing facility
- CoE for SMD & SMT Technologies
- CoE for AI, ML & DL – Supported by NVIDIA
- CoE for Autonomous Systems (Drones and UAVs)
- CoE for NDT Centre

Research Park – Stage -Wise Development

Short-term

- Phase I labs, shared facilities
- Infrastructure Development
- Basic Equipment Support
- All Research amenities

Medium-term

- Industry-Sponsored labs
- Industry Collaboration
- Advanced Facility
- CSR leverage
- Translation Research

Long-term

Global Research Park / anchor tenants
- Advanced Facility
- Global engagement
- Industry Engagement
- Technology Development

Short-Term Goals (2026–2030)

During the short-term phase, Vel Tech aims to significantly strengthen its research ecosystem by increasing annual research funding from ₹91 lakhs to ₹5 crore and expanding active research projects from 20 to 50. Full-time PhD enrolment will be scaled from 200 to 400 scholars, while faculty research productivity will improve with annual publications rising from 3,000 to 4,500, including 300 Q1-quality publications. The proportion of research-active faculty is targeted to increase from 40% to 55%, with 35% of faculty achieving an h-index above 5. The intellectual property ecosystem will be strengthened through 150 patent filings annually, enhanced technology transfer revenue of ₹5 lakhs per year, and the promotion of 12 research-based startups annually. Centres of Excellence will expand from 5 to 8 operational units, supported by a cumulative investment of ₹10 crore, alongside engagement with 10 industry partners. Doctoral research quality will be enhanced by improving Ph.D. completion rates from 60% to 70% and increasing the Ph.D.-per-faculty ratio to 0.35. Complete digitization of institutional research records will be achieved by 2027, while non-grant research income will grow through consultancy revenue of ₹1.5 crore annually and executive development programmes generating ₹1 crore annually. Recognition will be strengthened through 15 national awards and 5 international awards annually, with 30% faculty participation in excellence awards.

Medium-Term Goals (2031–2035)

In the medium-term period, Vel Tech envisions consolidating its research intensity by increasing annual research funding to ₹7.5 crore and expanding the number of active research projects to 100. Full-time Ph.D. strength will grow to 600 scholars, supported by enhanced faculty supervision capacity. Faculty research output will rise to 6,000 publications annually, including 800 Q1-quality publications, with 45% of faculty achieving an h-index above 5 and 65% of faculty actively engaged in research. Patent filings will increase to 180 annually, technology transfer revenue to ₹10 lakhs per year, and research-based startups to 15 annually. Centres of Excellence will expand to 12 operational centres, backed by a cumulative investment of ₹16 crore and engagement with 20 industry partners. Doctoral research quality will improve with Ph.D. completion rates reaching 80% and a Ph.D.-per-faculty ratio of 0.7. Digitized repositories will provide 10,000+ open-access research documents, while consultancy revenue will rise to ₹3 crore annually and executive education programmes to ₹2 crore annually. Institutional recognition will be strengthened through 20 national awards, 8 international awards annually, and 40% faculty participation

Long-Term Goals (2036–2040)

By the long-term phase, Vel Tech aspires to achieve global recognition as a research-driven university with a mature and sustainable innovation ecosystem. Annual research funding will reach ₹10 crore, supported by 150+ active research projects and a doctoral community of 1,000 full-time PhD scholars. Faculty research productivity will peak at 7,500 publications annually, including 1,600 Q1-quality publications, with 50% of faculty achieving an hindex above 5 and 70% actively engaged in research. Patent filings will reach 200 annually, technology transfer revenue ₹20 lakhs per year, and research-based startups 20 annually. Centres of Excellence will expand to 15 fully operational centres, supported by a cumulative investment of ₹20 crore and collaboration with 25+ industry partners. Doctoral
research quality will achieve advanced benchmarks with 85% Ph.D. completion rates and a Ph.D.-per-faculty ratio of 1.0. Institutional knowledge systems will be fully integrated with global research databases, while non-grant research income will reach ₹5 crore annually through consultancy and ₹3 crore annually through executive and management development programmes. The university will consistently achieve high recognition through 25 national awards and 10 international awards annually, with 50% faculty participation in excellence awards.

Enabler 2: Research Excellence (2026–2040) — Summary Roadmap

Dimension	Short-Term Goals (2026–2030)	Medium-Term Goals (2031–2035)	Long-Term Goals (2036–2040)
Research Funding & Projects	Increase annual research funding to ₹5 crore; expand active projects from 20 to 50	Increase annual research funding to ₹7.5 crore; expand active projects to 100	Achieve ₹10 crore annual research funding; sustain 150+ active research projects
Doctoral Programs & Research Scholars	Expand full-time PhD scholars from 200 to 400; improve PhD completion rate to 70%	Increase PhD scholars to 600; improve completion rate to 80%	Expand PhD scholars to 1,000; achieve ≥85% PhD completion rate

Faculty Research Productivity	Increase annual publications to 4,500, including 300 Q1 journals; 55% research-active faculty	Increase publications to 6,000 annually, including 800 Q1 journals; 65% research-active faculty	Achieve 7,500 publications annually, including 1,600 Q1 journals; 70% research-active faculty
Research Quality & Impact	35% faculty with h-index ≥5; strengthen research mentoring and proposal-writing support	45% faculty with h-index ≥5; faculty positioned as research leaders and mentors	50% faculty with h-index ≥5; global research leadership and citation impact
Centres of Excellence & Infrastructure	Expand CoEs from 5 to 8; cumulative investment of ₹10 crore; shared facilities	Expand CoEs to 12 with industry-sponsored labs; cumulative investment of ₹16 crore	Expand CoEs to 15; establish global-scale research park with anchor industry tenants
Industry & National Collaborations	Engage 10 industry partners; expand IIT/CSIR/DRDO collaborations; applied research focus	Engage 20 industry partners; scale translational and industry-sponsored research	Engage 25+ industry partners; global industry–academia research integration
Intellectual Property & Commercialization	File 150 patents annually; achieve ₹5 lakh/year technology transfer revenue; 12 startups/year	File 180 patents annually; ₹10 lakh/year technology transfer revenue; 15 startups/year	File 200 patents annually; ₹20 lakh/year technology transfer revenue; 20 startups/year
Consultancy & Non-Grant Revenue	Achieve ₹1.5 crore/year consultancy revenue; ₹1 crore/year executive development programs	Achieve ₹3 crore/year consultancy revenue; ₹2 crore/year executive education	Achieve ₹5 crore/year consultancy revenue; ₹3 crore/year executive education
Digital Research Ecosystem	Complete digitization of research records and repositories by 2027	Maintain 10,000+ open-access research documents	Full integration with global research databases and digital research platforms
Recognition & Awards	Achieve 15 national and 5 international awards annually; 30% faculty participation	Achieve 20 national and 8 international awards annually; 40% faculty participation	Achieve 25 national and 10 international awards annually; 50% faculty participation

ENABLER 3: CAPACITY DEVELOPMENT FACULTY & STUDENTS 2026-2040

The Capacity Development roadmap (2026–2040) outlines Vel Tech's strategic focus on enhancing faculty and staff capabilities through comprehensive training, advanced qualifications, global exposure, and structured career progression. It aims to build a highly qualified faculty base with increasing recruitment from premier institutions, establish endowed chairs, and strengthen research leadership through sabbaticals, international collaborations, and advanced digital pedagogy. The plan also emphasizes continuous development for non-teaching staff through ERP/MIS training, specialization programs, exposure visits, and digital governance skills. With a strong commitment to mentoring, recognition systems, and global best practices, Vel Tech envisions creating a future-ready academic workforce capable of driving excellence, innovation, and institutional leadership by 2040.

Strengths & Highlights

Dedicated office of Human resource Development centre for

- **Strong faculty qualification roadmap, targeting 95% Ph.D.-qualified faculty by 2030 and 100% by 2035, ensuring academic depth and research-driven teaching.**
- **Strategic talent acquisition policy, progressively increasing recruitment from IITs, NITs, and Institutes of National Importance up to 30% by 2040.**
- **Structured Faculty Development Programmes (FDPs) aligned with NEP 2020, OBE, pedagogy, ethics, and blended learning, evolving towards advanced domains like AI, Data Science, IoT, AR/VR, and Semiconductor technologies.**
- **Robust research capacity-building framework, progressing from proposal-writing awareness to faculty-led research mentorship and international research leadership.**
- **Introduction and scaling of Endowed Chairs, strengthening research leadership with 5 chairs by 2030, 10 by 2035, and 15+ by 2040.**
- **Industry immersion and global exposure, through faculty sabbaticals, industry internships, and international faculty exchange programmes, leading to collaborative curriculum design.**
- **Progressive digital pedagogy adoption, moving from basic digital literacy to AI-enabled teaching, with 40% of curriculum digitized by 2040.**
- **Leadership development pipeline for faculty, nurturing HoDs, Deans, and research leaders with governance exposure and global leadership recognition.**
- **Comprehensive non-teaching staff capacity building, covering ERP/MIS, automation, cybersecurity, smart campus operations, and exposure to best practices at leading institutions.**

- **Structured mentoring ecosystem, evolving from peer mentoring to a sustained mentoring culture supporting faculty and student professional growth.**
- **Recognition and career progression systems, integrating performance-based awards, CPD-linked advancement, and long-term career pathways.**
- **Enhanced global exposure for faculty and students, transitioning from isolated conferences to Centres of excellence, joint programmes, and global academic leadership**

Faculty

100%
PhD Qualified

Collaboration

NITs & IITS

NEP Focus

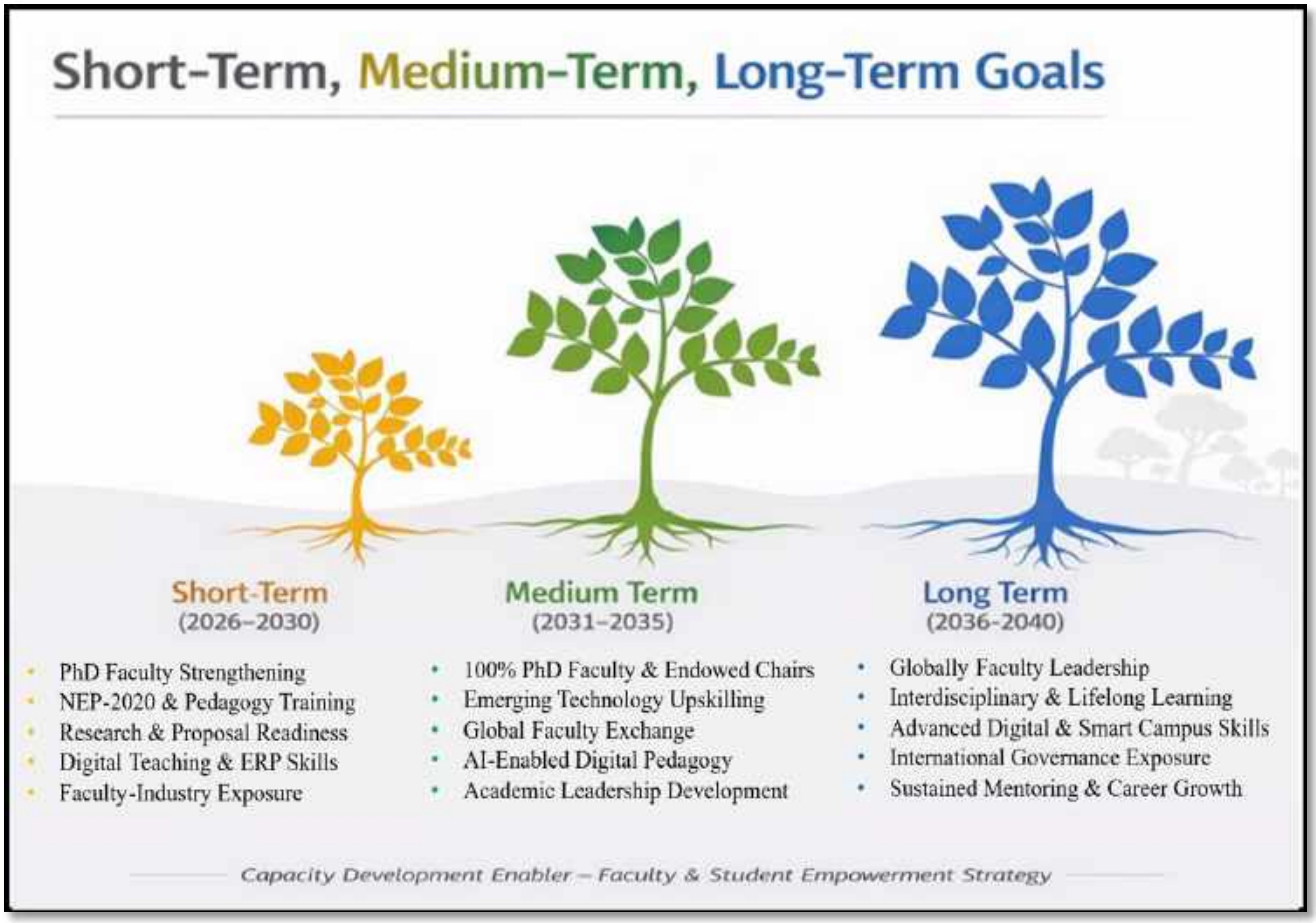
Holistic Development

Digital Pedagogy

10% Curriculum Digitalization

Faculty Training

Industry & Higher Institutes



Short-Term Goals (2026–2030)

During the short-term period, Vel Tech focuses on strengthening faculty and staff capacity by significantly enhancing academic qualifications, professional skills, and institutional systems. The proportion of Ph.D.-qualified faculty will increase from the existing baseline to 95%, supported by targeted annual recruitment, with 10% of new faculty drawn from IITs, NITs, and Institutes of National Importance. The institution will establish five endowed chairs to promote academic leadership and excellence. Faculty training initiatives will emphasize induction and capacity building in NEP 2020, outcome-based education, pedagogy, ethics, ICT tools, and blended learning through structured workshops and FDPs. Research capacity development will focus on research awareness, methodology, proposal writing, and intellectual property rights, enabling faculty to actively engage in funded research. Industry internships and exchange programmes will be introduced for faculty to strengthen industry-academia linkage. Digital pedagogy initiatives will ensure basic digital literacy and enable 10% curriculum digitization through digital content creation. Leadership development efforts will focus on awareness-building for academic administrators. Non-teaching staff will undergo structured induction, policy orientation, and basic ERP and MIS training, along with professional skill development in IT, laboratory, library, and automation systems. Peer mentoring mechanisms will be introduced, and recognition systems such as service and efficiency awards will be initiated. Faculty and staff global exposure will be enhanced through participation in national conferences, workshops, and domestic institutional visits.

Medium-Term Goals (2031–2035)

In the medium term, Vel Tech aims to consolidate capacity development efforts by achieving 100% Ph.D.-qualified faculty and strengthening recruitment, with 20% of new faculty sourced from premier national institutions. The number of endowed chairs will be expanded to TEN, fostering sustained academic leadership. Faculty development programmes will move toward advanced training in emerging technologies such as Artificial Intelligence, Data Science, IoT, AR/VR, and Semiconductor technologies. Research capacity will be strengthened by positioning faculty as research leaders and mentors, actively guiding projects and doctoral scholars. Faculty exchange programmes with global universities will be implemented, enhancing international collaboration. Digital pedagogy will advance toward AI-enabled teaching, and curriculum digitization efforts will expand significantly. Leadership development will focus on structured training for Heads of Departments and Deans, including exposure to academic governance. Non-teaching staff development will progress through advanced ERP and MIS usage, exposure visits to reputed institutions, and specialization in finance, human resources, and administration. Cybersecurity and digital operations training will strengthen smart campus capabilities. Mentoring networks will be institutionalized and strengthened. Career progression systems will be formalized through structured pathways linked to performance and professional development. Faculty and staff will gain international exposure through exchange programmes, sabbaticals, and short-term overseas training.

Long-Term Goals (2036–2040)

By the long-term phase, Vel Tech envisions sustaining excellence in capacity development through continuous professional growth, global engagement, and leadership recognition. Recruitment strategies will ensure that 30% of faculty induction comes from premier institutions, while the number of endowed chairs will expand to 15 or more, strengthening institutional thought leadership. Faculty development will emphasize lifelong learning, global recognition, and advanced interdisciplinary expertise, with faculty assuming leadership roles in research, mentoring, and international collaboration. Faculty exchange and sabbatical programmes will evolve into global collaborative curriculum design initiatives. Digital pedagogy will mature with 40% of the curriculum fully digitized and widespread adoption of AI-enabled teaching-learning systems. Leadership development will extend to global governance exposure and international academic leadership recognition. Non-teaching staff will receive advanced training in digital governance, smart campus management, and global best practices, supported by international training collaborations. Mentoring will become a sustained institutional culture. Career progression will be fully integrated with continuous professional development frameworks. Faculty and staff global exposure will culminate in leadership roles within Centres of Excellence and international academic networks, positioning Vel Tech as a globally competitive institution.

Enabler 3: Capacity Development – Faculty & Students (2026–2040) Summary Roadmap

Dimension	Short-Term Goals (2026–2030)	Medium-Term Goals (2031–2035)	Long-Term Goals (2036–2040)
Faculty Qualifications & Recruitment	Increase PhD-qualified faculty to 95%; recruit 10% new faculty from IITs, NITs, and Institutes of National Importance	Achieve 100% PhD-qualified faculty; recruit 20% new faculty from premier national institutions	Sustain recruitment with 30% faculty induction from premier institutions
Endowed Chairs & Academic Leadership	Establish 5 endowed chairs to strengthen academic leadership	Expand endowed chairs to 10	Expand endowed chairs to 15 or more, strengthening institutional thought leadership
Faculty Development Programmes (FDPs)	Conduct FDPs on NEP 2020, OBE, pedagogy, ethics, ICT tools, and blended learning	Advance FDPs in emerging areas such as AI, Data Science, IoT, AR/VR, and Semiconductors	Emphasize lifelong learning, interdisciplinary expertise, and global academic leadership
Research Capacity Building	Focus on research awareness, methodology, proposal writing, and IPR	Position faculty as research mentors and leaders guiding projects and PhD scholars	Faculty lead global research collaborations and advanced interdisciplinary research
Industry Immersion & Global Exposure (Faculty)	Introduce faculty industry internships, exchange programs, and exposure visits	Implement structured faculty exchange programs with global universities	Institutionalize faculty sabbaticals and global collaborative curriculum design
Digital Pedagogy & Curriculum Digitization	Ensure basic digital literacy; digitize 10% of curriculum	Expand AI-enabled teaching and curriculum digitization	Achieve 40% curriculum digitization with mature AI-enabled teaching–learning systems
Leadership Development & Governance	Create awareness programs for HoDs and academic administrators	Implement structured leadership training for HoDs and Deans	Achieve global governance exposure and international academic leadership recognition

Non-Teaching Staff Capacity Building	Conduct induction, policy orientation, ERP/MIS training, and basic professional skill development	Advance ERP/MIS usage; specialization in finance, HR, administration, and cybersecurity	Enable advanced digital governance, smart campus management, and global best practices
Mentoring Systems	Introduce peer mentoring mechanisms	Institutionalize structured mentoring networks	Sustain a mentoring culture across faculty and students
Recognition & Career Progression	Initiate service, efficiency, and performance-based awards	Formalize career progression pathways linked to performance	Fully integrate career progression with continuous professional development
Student Capacity Development & Exposure	Enhance participation in national conferences, workshops, and domestic institutional visits	Expand international exposure through exchange programs and global training	Position students within Centres of Excellence and international academic networks

Vel Tech Campus

ENABLER 4: GLOBAL VISIBILITY AND COLLABORATION 2026-2040

The Global Visibility roadmap (2026–2040) positions Vel Tech to emerge as a globally recognized institution by strengthening international student intake, expanding active global partnerships, and scaling student and faculty exchanges across leading universities worldwide. The plan envisions significant growth in Twinning, dual-degree and joint degree/ PhD programs, international conferences, summer schools, and collaborative research projects, supported by major global funding frameworks. Dedicated international facilities, large-scale digital branding, and strong alumni networks further reinforce Vel Tech's global presence. With increased international faculty participation, Tier-1 partnerships, and UN SDG–aligned initiatives, the institution aims to build a robust global ecosystem that enhances academic reputation, cultural diversity, and worldwide impact by 2040.

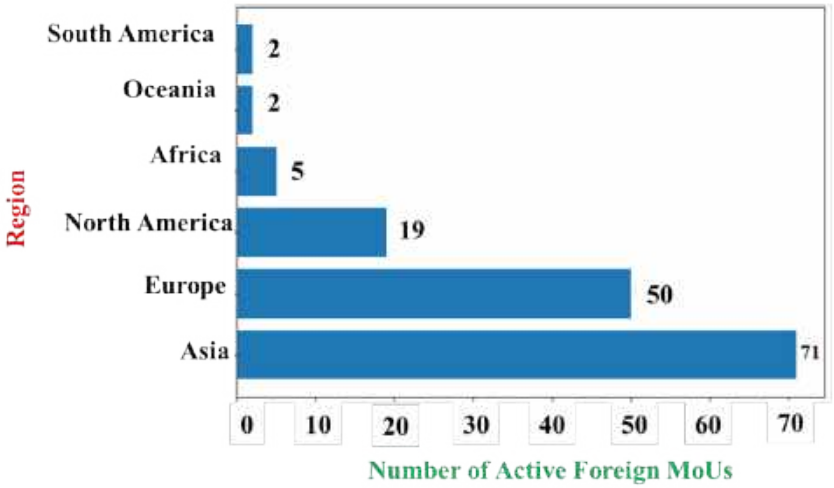
Partnership Agreement signed with Governors State University, Illinois, USA

Strengths & Highlights

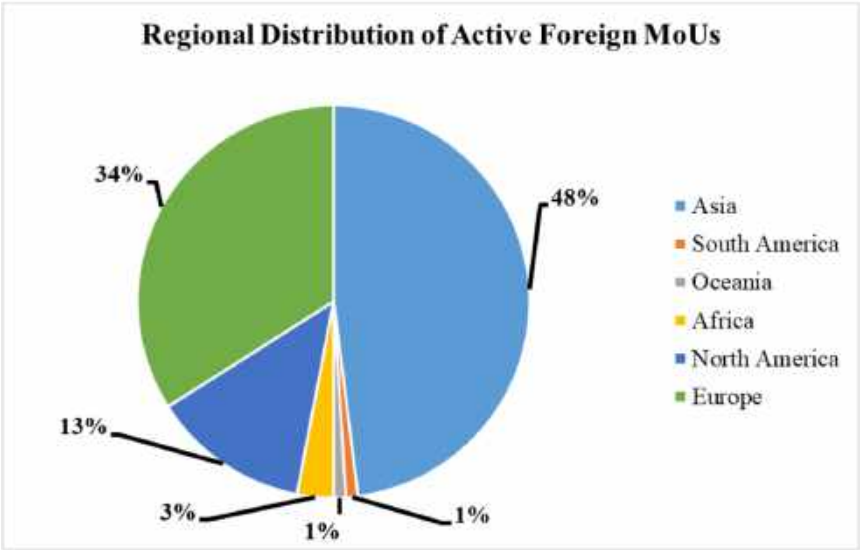
- **Rapid expansion of international student footprint, with growth from <100 students (2025) to 1,000+ international students by 2040, supported by dedicated international offices and housing facilities.**
- **Extensive global partnership network, scaling from 200+ MoUs to 500+ active international collaborations, with increasing activation rates and outcome-driven engagement.**
- **Strategic regional focus and depth, evolving from initial outreach to strong collaborations with top 1,000 global universities and Tier-1/Tier-2 institutions across USA, Europe, Southeast Asia, and Australia.**

- **High-impact student and faculty exchange programs, targeting 1,500+ annual student exchanges and 500+ inbound/outbound faculty exchanges by 2040.**
- **Well-established semester-abroad and mobility pathways, with cumulative participation projected to exceed 1,600+ students annually, enhancing global exposure and employability.**
- **Introduction and scaling of twinning, dual, joint degree, and joint PhD programs, progressing from pilot initiatives to 15+ dual/joint programs and institution-wide joint PhD offerings.**
- **Growing international research collaborations, with co-authored publications increasing from 15% to 50%, and 50+ international research projects by 2040.**
- **Strong focus on global research funding, transitioning from limited funding to participation in Erasmus+, Horizon Europe, ASEAN, and NSF consortia, ensuring sustainable international research income.**
- **Institutionalization of global academic events, including flagship international conferences and summer school series, enhancing global academic presence and thought leadership.**
- **Dedicated infrastructure for internationalization, with purpose-built international offices, student support systems, and housing capacity exceeding 1,200 by 2040.**
- **Strategic global branding and outreach, supported by significant investments in digital marketing, international fairs, and global campaigns, strengthening international reputation.**
- **Active global alumni engagement, expanding international alumni base from 1,000 to 5,000+, enabling mentorship, collaborations, and global advocacy.**
- **Increasing faculty diversity and international expertise, with visiting professors and 2% full-time international faculty enhancing global academic perspectives.**
- **Alignment with UN Sustainable Development Goals (SDGs), scaling from ad-hoc initiatives to 50+ globally impactful SDG-linked projects.**

Region-wise Distribution of Active Foreign MoUs



Regional Distribution of Active Foreign MoUs



Foreign MoUs

149+
Active Foreign MoUs

6
Global Regions Covered

Asia
Primary Collaboration Regions

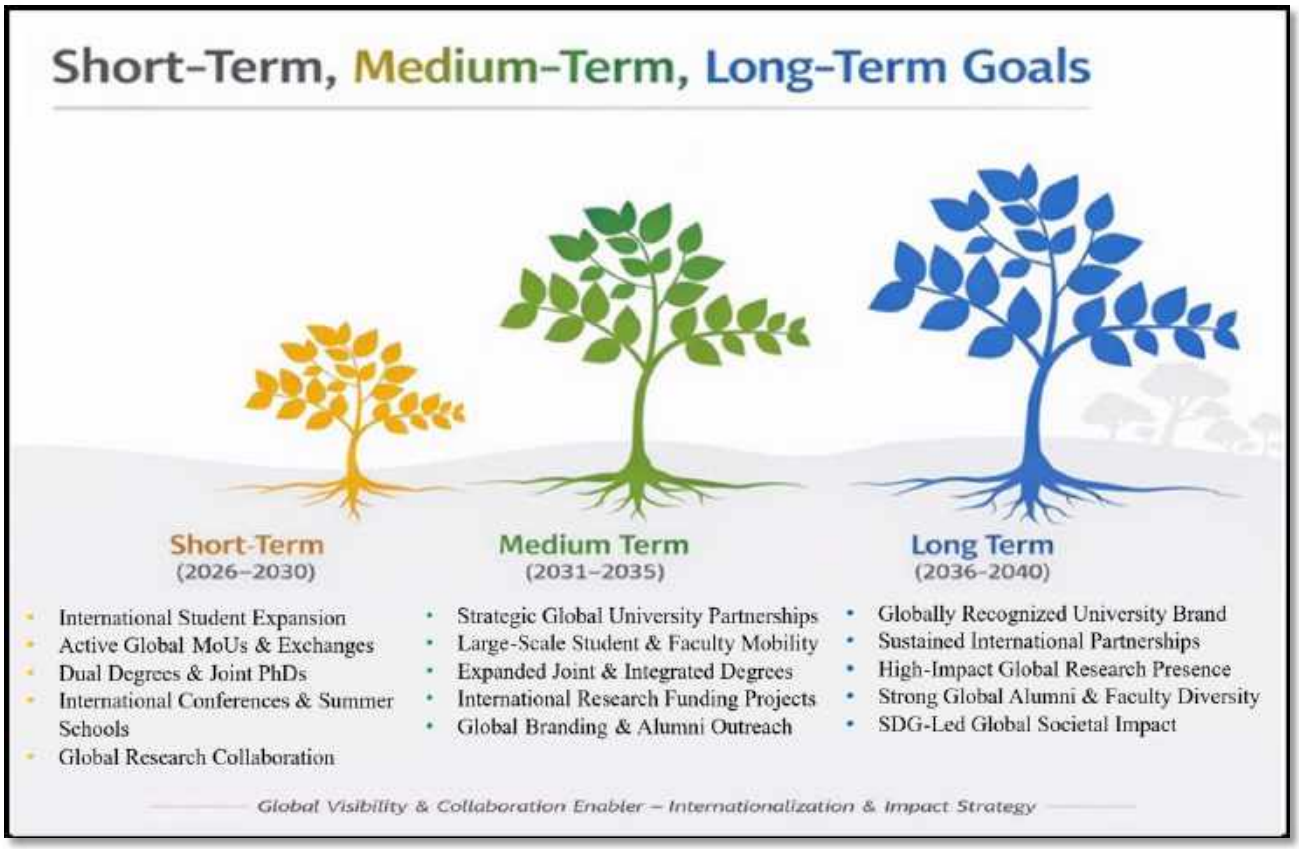
Europe
Secondary Collaboration Regions

Students
Mobility, Exchange, Global Exposure

Faculty
Joint Research, Global Exposure

NEP 2020
Internationalisation Alignment

SDGs
SDG 4, 8, 9, 17 Enabled



Short-Term Goals (2026–2030)

During the short-term period, Vel Tech aims to significantly enhance its global visibility by increasing the number of international students to more than 300 and expanding global partnerships to 300 MoUs, with at least 60% being active collaborations. International engagement efforts will focus on strategic regions such as the USA, Europe, Southeast Asia, and Australia, supported by strengthened student and faculty exchange programmes. Student exchange participation is expected to exceed 500 annually, while faculty exchange will expand to 300 inbound and outbound participants. Semester-abroad opportunities will be enhanced to support 800 students, alongside the introduction of five twinning, dual / joint degree programmes and the initiation of joint PhD programmes. The university will organize two international conferences annually and expand summer schools to five or more programmes each year. Collaborative research will be strengthened through an increase in international co-authored publications to 25% and participation in 20 international research projects, supported by funding from major global agencies. Infrastructure for internationalization will be enhanced through the establishment of a dedicated International Relations Office and expanded student housing facilities. Digital branding and global outreach will be strengthened through focused investments in international marketing. Alumni engagement and visiting professor programmes will further support global academic presence, while initial projects aligned with UN Sustainable Development Goals (SDGs) will be launched.

Medium-Term Goals (2031–2035)

In the medium term, Vel Tech envisions deepening its international footprint by enrolling more than 500 international students and expanding global partnerships to 400 MoUs, with 75% active engagement. Strategic collaboration will focus on building deeper academic and research partnerships with top 1,000 global universities. Student exchange participation will grow beyond 800 annually, while faculty exchange will exceed 350 inbound and outbound participants. Semester-abroad participation will reach 1,200 students, and twinning, dual/ joint, and integrated degree offerings will expand to ten programmes, alongside five or more joint PhD programmes. International academic engagement will be strengthened through hosting three to five international conferences annually and expanding summer schools to eight programmes per year. Research collaboration will intensify with 40% international co-authored publications and participation in 35 or more international research projects, including major global funding initiatives such as Horizon Europe. International student infrastructure will expand with increased housing capacity and professional support systems. Global branding efforts will be strengthened through expanded participation in international education fairs and digital campaigns. Alumni engagement will grow steadily, faculty diversity will improve with the inclusion of international faculty members, and the number of SDG-aligned projects will increase significantly.

Long-Term Goals (2036–2040)

By the long-term phase, Vel Tech aspires to establish itself as a globally recognized institution with a strong international academic and research presence. International student enrolment will exceed 1,000, supported by comprehensive student services and expanded housing capacity. Global partnerships will grow to 500 or more active MoUs, including Tier-1 and Tier-2 collaborations across major academic and research hubs worldwide. Student exchange participation will exceed 1,500 annually, with cumulative participation crossing 4,000 students, while faculty exchange will expand to more than 500 inbound and outbound participants. Semester-abroad programmes will support over 1,600 students, and twinning, dual/ joint, and degree pathways will expand to 15 or more programmes, with joint Ph.D. programmes institutionalized across disciplines. Vel Tech will host flagship international conference series and institutionalize global summer school programmes. Research collaboration will reach advanced levels with 50% international co-authored publications and participation in 50 or more international research projects, supported by sustainable global funding mechanisms. The university will establish a strong global brand identity through sustained international outreach, a vibrant global alumni network exceeding 5,000 members, and increased faculty diversity with 2% full-time international faculty. The institution will also demonstrate global societal impact through 50 or more major projects aligned with the UN Sustainable Development Goals.

Enabler 3: Capacity Development – Faculty & Students (2026–2040) Summary Roadmap

Dimension	Short-Term Goals (2026–2030)	Medium-Term Goals (2031–2035)	Long-Term Goals (2036–2040)
International Student Enrollment	Increase international students to 300+ with dedicated international offices and housing support	Increase international students to 500+ with expanded student services and infrastructure	Increase international students to 1,000+ supported by comprehensive international student ecosystem
Global Partnerships (MoUs)	Expand global partnerships to 300 MoUs with at least 60% active collaborations	Expand global partnerships to 400 MoUs with 75% active engagement	Expand global partnerships to 500+ active MoUs including Tier-1 and Tier-2 institutions
Strategic Geographic Focus	Focus on USA, Europe, Southeast Asia, and Australia	Deepen partnerships with top 1,000 global universities	Sustain strong academic presence across major global education and research hubs
Student Mobility & Exchange	Enable 500+ student exchanges annually; strengthen semester-abroad pathways	Enable 800+ student exchanges annually; semester-abroad participation up to 1,200 students	Enable 1,500+ student exchanges annually; cumulative participation exceeding 4,000 students
Faculty Mobility & Exchange	Expand faculty exchange to 300 inbound and outbound participants	Increase faculty exchange to 350+ inbound and outbound participants	Increase faculty exchange to 500+ inbound and outbound participants
Joint / Dual Degree Programs	Introduce 5 twinning, dual, or joint degree programs; initiate joint PhD programs	Expand to 10 joint/dual degree programs and 5+ joint PhD programs	Institutionalize 15+ joint/dual degree programs and joint PhD offerings across disciplines
International Research Collaboration	Achieve 25% international co-authored publications; participate in 20 international research projects	Achieve 40% international co-authored publications; participate in 35+ international research projects	Achieve 50% international co-authored publications; participate in 50+ international research projects
Global Research Funding	Initiate participation in international funding programs	Expand participation in major global funding initiatives such as Erasmus+ and Horizon Europe	Sustain international research funding through global consortia and collaborations

International Academic Events	Organize 2 international conferences annually; conduct 5 summer schools per year	Organize 3–5 international conferences annually; expand summer schools to 8 programs	Institutionalize flagship international conferences and global summer school programs
International Infrastructure & Support	Establish a dedicated International Relations Office and expand student housing	Expand international student housing and professional support systems	Achieve housing capacity exceeding 1,200 with fully integrated international services
Global Branding & Outreach	Strengthen digital branding and international marketing initiatives	Expand participation in international education fairs and global campaigns	Establish sustained global brand identity and international academic reputation
Alumni & Faculty Diversity	Strengthen alumni engagement and visiting professor programs	Improve international faculty participation and global alumni networks	Achieve 2% full-time international faculty and a global alumni network exceeding 5,000
SDG-Linked Global Initiatives	Initiate SDG-aligned international projects	Expand number and scale of SDG-linked global initiatives	Achieve 50+ globally impactful projects aligned with UN SDGs

ENABLER 5: GLOBAL VISIBILITY AND COLLABORATION 2026-2040

The Innovation, Incubation & Entrepreneurship roadmap (2026–2040) highlights Vel Tech's vision to build a globally competitive innovation ecosystem by scaling startup incubation, expanding deep-tech domains, and strengthening financial and infrastructural support for entrepreneurs. The plan aims to grow the startup portfolio to 1,000 ventures, increase funded startups, and establish a world-class innovation hub with extensive laboratories and multi-sector research facilities. It focuses on expanding pre-incubation programs, boosting patents, technology transfers, and commercialization, while nurturing student, faculty, and alumni entrepreneurship. With strong industry and international partnerships, enhanced NISP implementation, and advanced IIC performance, Vel Tech aspires to achieve top national innovation rankings and global visibility by 2040, creating a vibrant environment that fuels innovation-driven economic and societal impact.

DPIIT Recognized Startups	Total Fund raised	Total funded
162	Rs.48 Cr	Rs.17.18 Cr

Startups Onboarded	Start-up Performance - Prototypes	Start-up Performance - Revenue
432	92	Rs.248 Cr

Short-Term Goals (2026–2030)

During the short-term period, Vel Tech aims to strengthen its innovation and entrepreneurship ecosystem by expanding its startup portfolio from over 300 to 432 incubated startups, with 250 funded startups supported through seed funding mechanisms such as NIDHI and SISFS. The technology focus will broaden beyond existing pilot domains such as AI/ML, IoT, EV, and CleanTech to include AgriTech, MedTech, and Industry 4.0. Annual financial support for innovation will be enhanced to ₹25 crore, with cumulative startup funding reaching ₹50 crore. Pre-incubation activities will be scaled up to 20 or more programmes annually, strengthening the early-stage innovation pipeline. Incubation infrastructure will expand from 40,000 sq. ft. to 50,000 sq. ft., supporting increased startup activity. Innovation outputs will be strengthened through 400 patent filings, 30 or more technology licenses, and 60 commercialized startups. Entrepreneurship development will focus on nurturing 100 student startups per year, 25 faculty-led startups per year, and increased alumni participation. Academic integration will be enhanced through 10 credit-based innovation courses and 10 FDPs annually. Policy frameworks such as NISP will be fully adopted, IIC performance will improve to a 4-star rating, and industry partnerships will expand beyond 100 collaborations, alongside increased international linkages. The institution aims to improve its standing in the NIRF Innovation Ranking to Band 10–20, achieving stronger national recognition.

Short-Term Goals (2026–2030)

During the short-term period, Vel Tech aims to strengthen its innovation and entrepreneurship ecosystem by expanding its startup portfolio from over 300 to 432 incubated startups, with 250 funded startups supported through seed funding mechanisms such as NIDHI and SISFS. The technology focus will broaden beyond existing pilot domains such as AI/ML, IoT, EV, and CleanTech to include AgriTech, MedTech, and Industry 4.0. Annual financial support for innovation will be enhanced to ₹25 crore, with cumulative startup funding reaching ₹50 crore. Pre-incubation activities will be scaled up to 20 or more programmes annually, strengthening the early-stage innovation pipeline. Incubation infrastructure will expand from 40,000 sq. ft. to 50,000 sq. ft., supporting increased startup activity. Innovation outputs will be strengthened through 400 patent filings, 30 or more technology licenses, and 60 commercialized startups. Entrepreneurship development will focus on nurturing 100 student startups per year, 25 faculty-led startups per year, and increased alumni participation. Academic integration will be enhanced through 10 credit-based innovation courses and 10 FDPs annually. Policy frameworks such as NISP will be fully adopted, IIC performance will improve to a 4-star rating, and industry partnerships will expand beyond 100 collaborations, alongside increased international linkages. The institution aims to improve its standing in the NIRF Innovation Ranking to Band 10–20, achieving stronger national recognition.

Medium-Term Goals (2031–2035)

In the medium term, Vel Tech envisions scaling its innovation ecosystem to support 600 incubated startups, including 400 funded ventures, with cumulative startup funding reaching ₹100 crore. The technology focus will advance into deep-tech domains such as Quantum Technologies, SpaceTech, and Bio-AI. Annual innovation funding will increase to ₹40 crore, while pre-incubation programmes will expand to 30 or more annually, forming a structured institutional innovation funnel. Incubation infrastructure will be significantly expanded to 1,00,000 sq. ft., creating a multi-sector innovation park. Innovation outcomes will intensify with 700 patent filings, 75 or more technology transfers, and 120 commercialized startups. Entrepreneurship development will accelerate with 150 student startups per year, 50 faculty startups per year, and 150 alumni startups cumulatively. Academic capacity building will expand to 20 credit-based innovation programmes and 20 FDPs annually. Governance mechanisms will move toward advanced monitoring of innovation activities, while IIC performance will reach a 5-star rating. Industry collaborations will grow beyond 150 partners, international partnerships to 50 institutions, and Vel Tech will target a Top 10 national position in NIRF Innovation Rankings, achieving strong regional and Asia-level visibility.

Ideation (IIC)

- Students Innovation Grant
- NIDHI Prayas
- EDII TN Voucher
- Credit Activity

Incubation (TBI)

- Pre Incubation
- Incubation 1.5 Years
- Space, Mentorship & Industry Connect
- Credit Activity
- EDII TN Voucher

Technology Transfer & Market Scaling

- TTO office
- NIDHI CoE
- Meity TIDE Grant
- Startup India Seed Fund
- StartupTN

Product Development

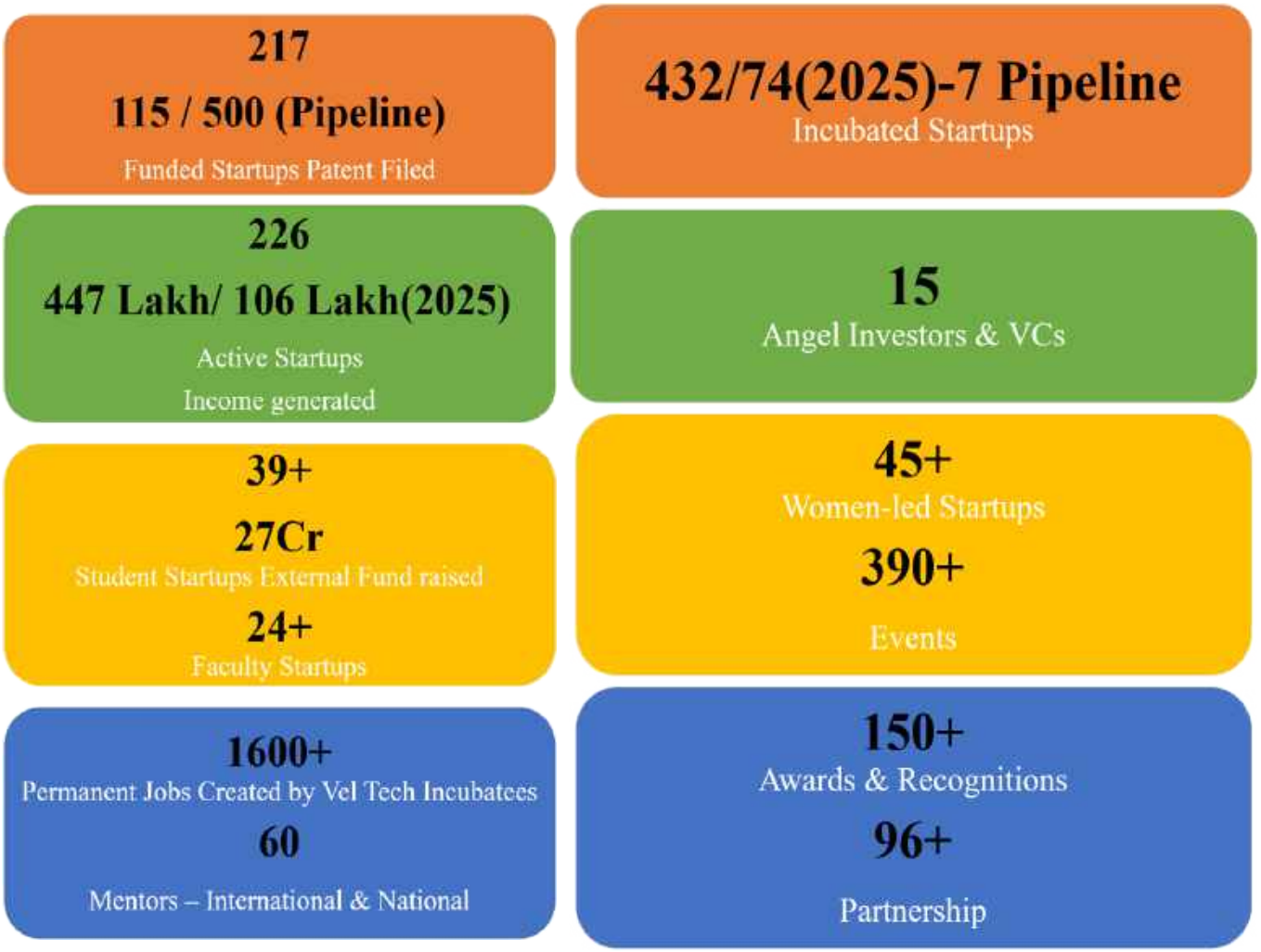
- Through Centres of Excellence
- PoC Grant
- Ideation Grant
- NIDHI CoE
- Meity TIDE Grant
- Startup India Seed Fund

IPR Filing

- KAPILA Scheme
- In house IPR
- Full Fee Sponsorship
- Cash Incentive

Long-Term Goals (2036–2040)

By the long-term phase, Vel Tech aspires to emerge as a globally recognized innovation hub, supporting 1,000 incubated startups, including 600 or more funded ventures, across 15 or more deep-tech sectors. Annual financial support for innovation will exceed ₹75 crore, with cumulative startup funding reaching ₹250 crore. Pre-incubation programmes will be fully institutionalized, creating a seamless pipeline from ideation to scale-up. Incubation infrastructure will evolve into a Global Innovation Hub, supporting advanced research commercialization and startup growth. Innovation outputs will reach 1,000+ patent filings, 150+ technology licenses, and 250 commercialized startups. Entrepreneurship development will mature with 250 student startups per year, 100 faculty startups per year, and 300 alumni startups, reflecting a strong entrepreneurial culture. Academic integration will expand to 30 or more innovation-focused credit courses and 30+ FDPs annually, embedding innovation across disciplines. Innovation governance will become an institutional culture, with sustained global rankings under IIC and NIRF Innovation frameworks. Industry partnerships will exceed 250, international collaborations will grow to 100 institutions, and Vel Tech will achieve global peer recognition for excellence in innovation, incubation, and entrepreneurship.



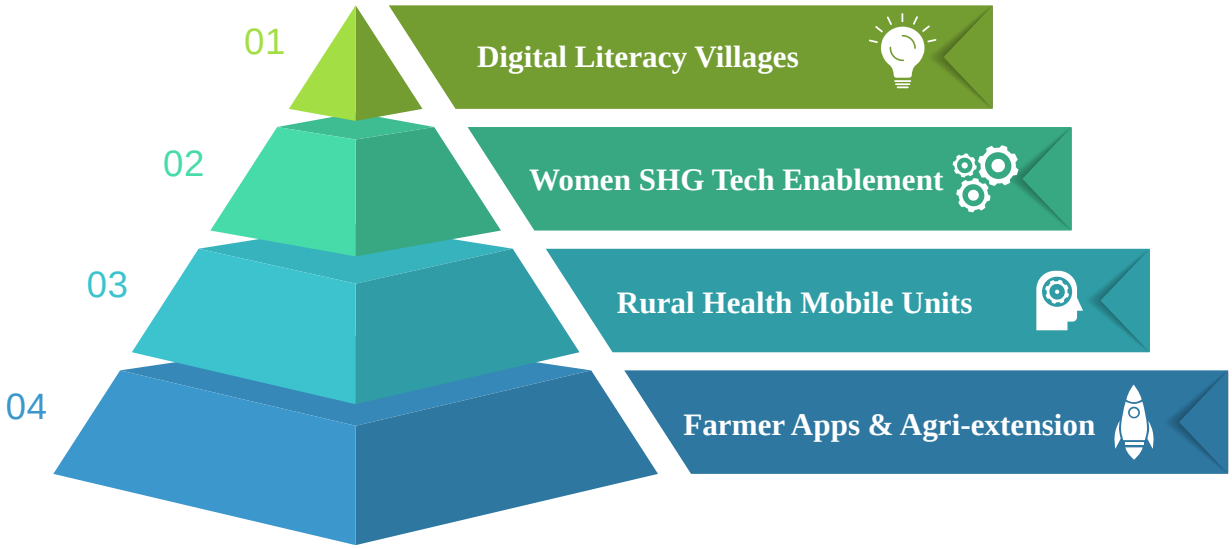
Enabler 5: Innovation, Incubation and Entrepreneurship (2026–2040) Summary Roadmap

Dimension	Short-Term Goals (2026–2030)	Medium-Term Goals (2031–2035)	Long-Term Goals (2036–2040)
Startup Portfolio & Incubation Scale	Expand incubated startups from 300+ to 450; support 250 funded startups	Expand incubated startups to 600, including 400 funded ventures	Expand incubated startups to 1,000, including 600+ funded ventures
Technology Domains & Focus Areas	Strengthen AI/ML, IoT, EV, CleanTech; add AgriTech, MedTech, Industry 4.0	Expand into deep-tech domains including Quantum Technologies, SpaceTech, Bio-AI	Support 15+ deep-tech sectors with global-scale innovation activity
Innovation Funding & Financial Support	Increase annual innovation funding to ₹25 crore; cumulative funding ₹50 crore	Increase annual innovation funding to ₹40 crore; cumulative funding ₹100 crore	Annual innovation funding exceeding ₹75 crore; cumulative funding ₹250 crore
Pre-Incubation & Pipeline Development	Conduct 20+ pre-incubation programs annually; strengthen ideation pipeline	Expand to 30+ structured pre-incubation programs annually	Fully institutionalized ideation-to-scale-up innovation pipeline
Incubation Infrastructure	Expand incubation space from 40,000 sq. ft. to 50,000 sq. ft.	Expand incubation infrastructure to 1,00,000 sq. ft. innovation park	Develop a Global Innovation Hub supporting advanced commercialization
Intellectual Property & Commercialization	File 400 patents; achieve 30+ technology licenses; commercialize 60 startups	File 700 patents; achieve 75+ technology transfers; commercialize 120 startups	File 1,000+ patents; achieve 150+ technology licenses; commercialize 250 startups
Student Entrepreneurship	Support 100 student startups per year	Support 150 student startups per year	Support 250 student startups per year
Faculty & Alumni Entrepreneurship	Support 25 faculty startups per year; increase alumni participation	Support 50 faculty startups per year; expand alumni startup involvement	Support 100 faculty startups per year; support 300 alumni startups cumulatively
Academic Integration & Capacity Building	Introduce 10 innovation credit courses and 10 FDPs annually	Expand to 20 innovation credit courses and 20 FDPs annually	Expand to 30+ innovation credit courses and 30+ FDPs annually

Enabler 5: Innovation, Incubation and Entrepreneurship (2026–2040) Summary Roadmap

Governance & Policy Frameworks	Fully adopt NISP; improve IIC performance to 4-star rating	Strengthen governance; achieve 5-star IIC rating	Institutionalize innovation governance as core academic culture
Industry & International Partnerships	Expand industry partnerships beyond 100; initiate international linkages	Expand industry partnerships beyond 150; international partnerships with 50 institutions	Expand industry partnerships beyond 250; international collaborations with 100 institutions
Innovation Rankings & Recognition	Improve NIRF Innovation Ranking to Band 10–20	Achieve Top 10 position in NIRF Innovation Rankings	Achieve sustained national and global recognition in innovation and entrepreneurship

ENABLER 6: SUSTAINABLE DEVELOPMENT GOALS & EXTENSION ACTIVITIES 2026-2040



The Sustainable Development Goals roadmap (2026–2040) presents Vel Tech's long-term commitment to environmental stewardship, social responsibility, and community development through large-scale initiatives in renewable energy, zero-waste systems, biodiversity enhancement, water conservation, and green infrastructure. The plan targets a fully solar-powered campus, 100% waste segregation, green-certified buildings, and smart sustainability technologies while expanding sustainability research and village development under UBA. It also emphasizes rural empowerment through digital literacy centers, livelihood programs, farmer apps, health and sanitation interventions, women empowerment initiatives, and global partnerships. By integrating student leadership, civic engagement, and continuous impact monitoring, Vel Tech aims to become a model institution for sustainable, inclusive, and community-driven development by 2040.

Short-Term Goals (2026–2030)

During the short-term period, Vel Tech will focus on establishing a strong foundation for sustainability and community engagement by expanding renewable energy initiatives, improving resource efficiency, and strengthening extension activities. Solar power capacity will be significantly enhanced, complemented by pilot wind energy installations. Waste management systems will be upgraded to enable full waste segregation and composting, while digital initiatives will drive a major transition toward paperless administrative and academic processes. Biodiversity efforts will include the development of a biodiversity park with native species, alongside improvements in green-certified buildings and the introduction of electric buses and cycle tracks. Water sustainability will be strengthened through expanded rainwater harvesting and campus-wide wastewater treatment facilities. Sustainability-focused research will be formalized through the establishment of a dedicated research centre, while smart technologies such as AI-enabled energy management and IoT-based waste monitoring will be introduced. Extension activities will expand through increased village adoption under Unnat Bharat Abhiyan, the establishment of village knowledge centers, skill development initiatives for women self-help groups, digital literacy programs, environmental conservation drives, health camps, sanitation initiatives, and student-led civic engagement through NSS and NCC activities. Institutional partnerships with NGOs and government agencies will support SDG-aligned interventions.

Medium-Term Goals (2031–2035)

In the medium term, Vel Tech aims to deepen its sustainability impact by scaling renewable energy capacity, significantly increasing waste recycling, and advancing toward a water-positive campus. Green infrastructure initiatives will expand through the retrofitting of buildings and the transition to a predominantly electric campus transport system supported by charging infrastructure. Biodiversity initiatives will grow into active research and learning ecosystems, while sustainability research will expand through multiple funded projects addressing climate action, clean energy, water management, and circular economy practices. Smart sustainability solutions will be strengthened through eco-monitoring applications and data-driven decision-making systems. Extension activities will broaden with increased village adoption, fully functional village knowledge centers, expanded digital literacy and farmer empowerment platforms, and the promotion of sustainable livelihoods through microfinance integration. Environmental conservation efforts will intensify through large-scale tree planting, solar energy deployment in villages, and zero-waste village models aligned with Swachh Bharat initiatives. Public health outreach will be strengthened through mobile health units, while student leadership will evolve through social innovation labs and structured civic engagement initiatives. Regional and international collaborations will enhance the scale and impact of SDG-focused programs.

Long-Term Goals (2036–2040)

By the long-term phase, Vel Tech envisions becoming a benchmark institution for sustainability, inclusive development, and societal transformation. The campus will transition to a fully renewable-energy-powered, carbon-neutral, and zero-waste ecosystem, supported by comprehensive green infrastructure, smart water grids, and fully paperless operations. Biodiversity initiatives will gain national recognition as living research ecosystems, while sustainability research will mature into a global hub addressing critical SDG challenges. Smart sustainability dashboards will enable real-time monitoring and governance of environmental performance. Extension activities will achieve deep and sustained impact through large-scale village adoption, fully digital village knowledge hubs, widespread rural entrepreneurship, national-level digital empowerment platforms, and extensive deployment of renewable energy solutions in rural areas. Public health and sanitation initiatives will ensure comprehensive community coverage, while Swachh Bharat-aligned villages will become self-sustaining models. Student leadership will expand into disaster response, global civic engagement, and social innovation at scale. The institution will strengthen national and international collaborations, women empowerment programs, and inclusive education initiatives, supported by robust social impact monitoring through an integrated rural development observatory, reinforcing Vel Tech's commitment to sustainable and inclusive development.

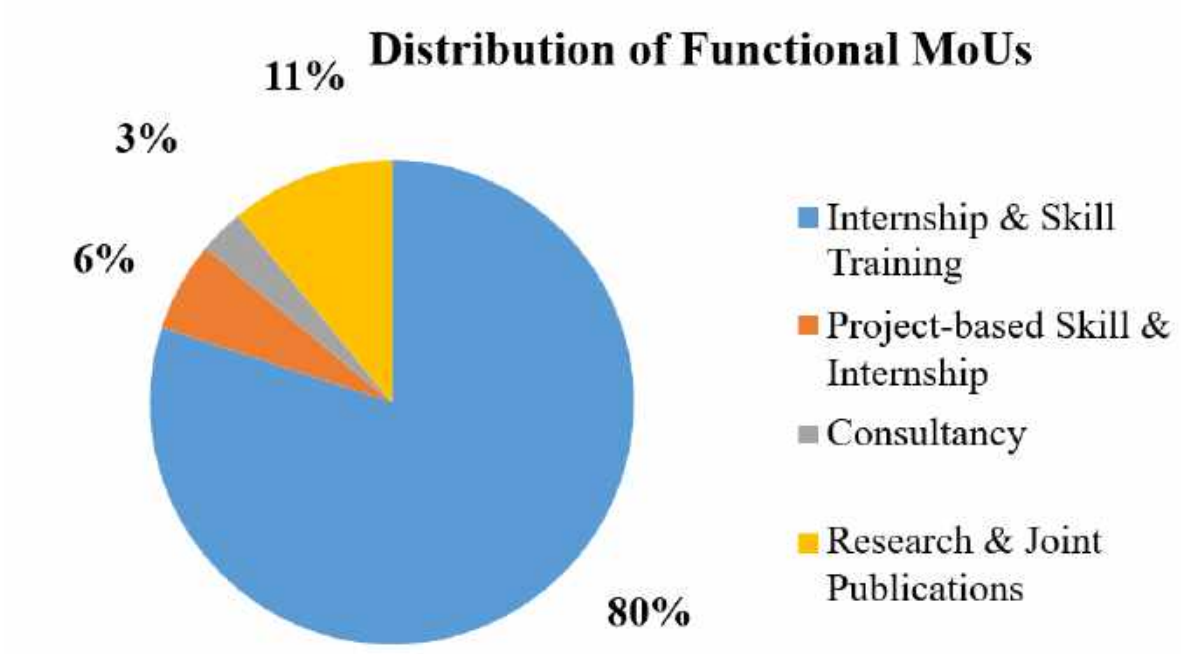
Sustainable Development Goals & Extension Activities (2026–2040) — Summary Roadmap

Dimension	Short-Term Goals (2026–2030)	Medium-Term Goals (2031–2035)	Long-Term Goals (2036–2040)
Renewable Energy & Carbon Reduction	Expand solar power capacity; initiate pilot wind energy installations	Scale renewable energy capacity; move towards water-positive and low-carbon campus	Achieve fully renewable-energy-powered, carbon-neutral campus
Waste Management & Resource Efficiency	Implement full waste segregation, composting, and recycling systems	Significantly increase waste recycling; advance towards zero-waste operations	Achieve 100% zero-waste campus with circular resource management
Green Infrastructure & Mobility	Expand green-certified buildings; introduce electric buses and cycle tracks	Retrofit buildings for sustainability; transition to predominantly electric campus transport	Establish fully green-certified, smart, and sustainable campus infrastructure
Water Conservation & Management	Strengthen rainwater harvesting and wastewater treatment facilities	Progress towards water-positive campus through smart water systems	Implement smart water grids with real-time monitoring and governance
Biodiversity & Ecology	Establish biodiversity park with native species	Expand biodiversity initiatives into active research and learning ecosystems	Achieve national recognition for biodiversity as living research ecosystems
Sustainability -Focused Research	Establish dedicated sustainability research centre; initiate SDG-linked projects	Expand funded sustainability research in climate action, clean energy, and circular economy	Develop a global sustainability research hub addressing critical SDG challenges
Smart Sustainability & Digital Tools	Introduce AI-enabled energy management and IoT-based waste monitoring	Strengthen data-driven eco-monitoring and sustainability dashboards	Implement real-time smart sustainability dashboards for campus governance
Extension Activities & Village Adoption	Expand village adoption under UBA; establish village knowledge centres	Increase number of adopted villages; strengthen digital village platforms	Achieve large-scale village adoption with fully digital village knowledge hubs
Rural Empowerment & Livelihoods	Launch digital literacy programs, SHG skill initiatives, farmer apps, and health camps	Expand sustainable livelihood models with microfinance and agri-extension support	Enable widespread rural entrepreneurship and self-sustaining village ecosystems

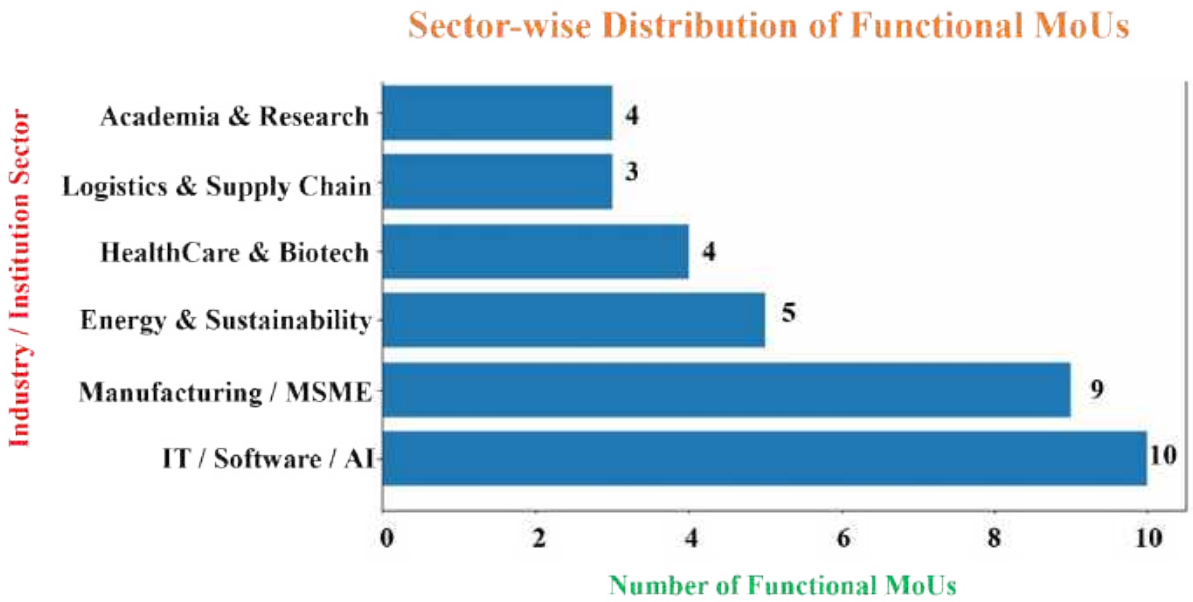
Public Health, Sanitation & Social Outreach	Conduct health camps, sanitation drives, and Swachh Bharat–aligned activities	Strengthen mobile health units and sanitation coverage	Ensure comprehensive community health and sanitation coverage
Student Engagement & Leadership	Strengthen NSS, NCC, and student-led civic engagement initiatives	Establish social innovation labs and structured civic leadership programs	Expand student leadership into disaster response and global civic engagement
Institutional Partnerships & Impact Monitoring	Collaborate with NGOs and government agencies for SDG initiatives	Strengthen regional and international partnerships for SDG programs	Establish integrated rural development observatory for long-term social impact monitoring

NEP Higher Education Focus	SDGs Implemented at Vel Tech	Phase
Multidisciplinary education	SDG 4 – Quality Education	Long Term
Research & Innovation	SDG 9 – Innovation	Long Term
Academic flexibility	SDG 8 – Decent Work	Medium term
Technology integration	SDG 9 – Infrastructure	Long Term
Quality & accountability	SDG 10 – Reduced Inequalities	Long Term
Internationalization	SDG 17 – Partnerships	Long Term
Sustainability initiatives	SDG 6, 11, 12, 13	Medium term
Solar Campus	-SDG 7	Long Term
Digital Village	-SDG 4	Long Term
Startup Accelerator	-SDG 9	Medium term

Functional MoUs



The MoU portfolio is predominantly oriented toward internships and skill training, reflecting Vel Tech's strategic focus on experiential learning, industry readiness, and employability



The sectoral spread of MoUs reflects Vel Tech's balanced engagement across technology, manufacturing, sustainability, healthcare, academia, and social sectors, enabling multidisciplinary exposure and diverse career pathways for students.

The functional MoUs of Vel Tech are strategically aligned with experiential learning, skill development, research, and societal engagement. With over 80% of collaborations focused on internships and skill training across multiple industry sectors, the MoU ecosystem directly supports student employability, faculty research, consultancy, and innovation. These collaborations are strongly aligned with NEP 2020 priorities and contribute to SDGs 4, 8, 9, and 17, reinforcing Vel Tech's commitment to outcome-oriented, inclusive, and sustainable higher education.

Partnership Agreement Signed with Ashok Leyland

The Industry Collaboration roadmap (2026–2040) outlines Vel Tech's strategy to build a strong, future-focused industry–academia ecosystem by expanding partnerships, enhancing experiential learning, and strengthening innovation linkages. The plan envisions a rapid scale-up of MoUs with leading industries, growth in joint R&D projects, and establishment of advanced industry-sponsored laboratories. It emphasizes large-scale student internships, extensive industry expert engagement, and significant faculty immersion through sabbaticals.

The roadmap also integrates corporate-backed startup support, increased CSR contributions, and a robust alumni engagement framework that includes global chapters, mentorship networks, career services, and lifelong learning platforms. By 2040, Vel Tech aims to become a globally connected institution with deep industry integration, strong entrepreneurial support, and a dynamic alumni-driven innovation ecosystem.

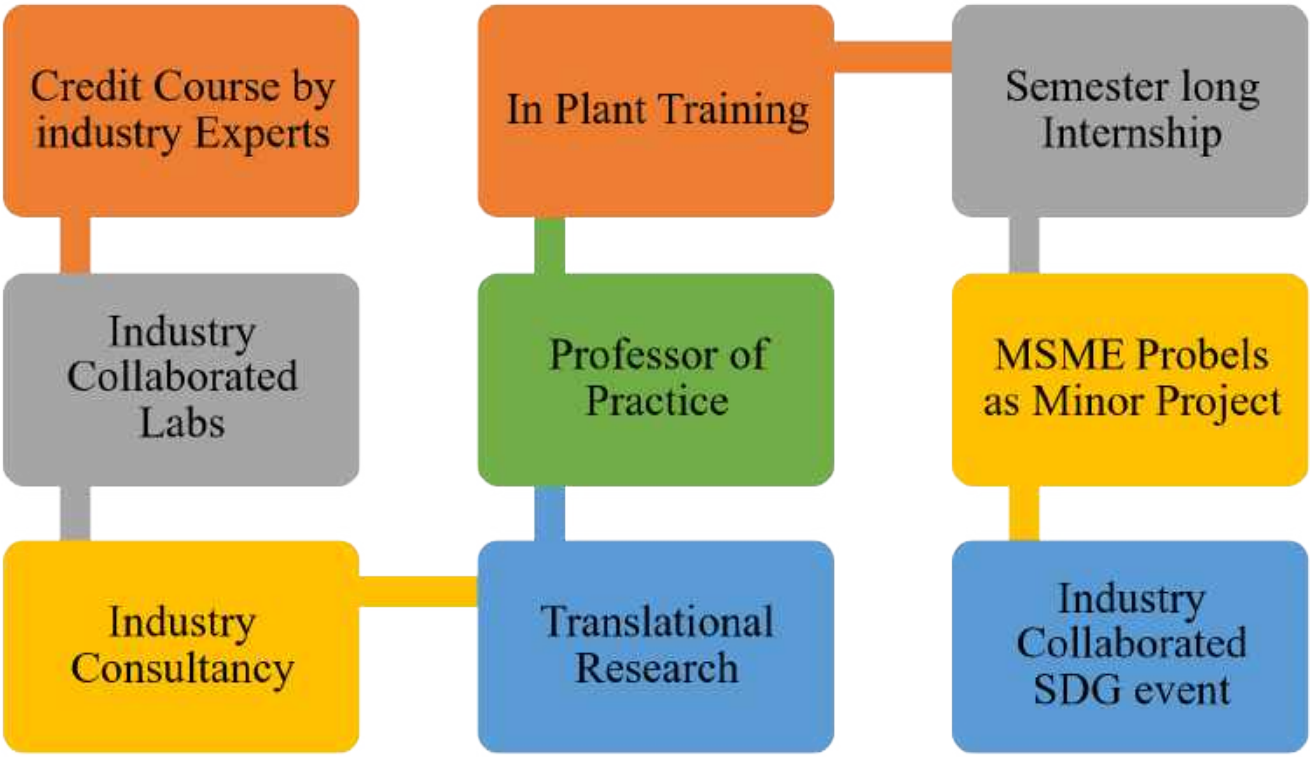

VISAI 2025 – 15th International Project Competition and Exhibition


VISAI 2024 – 14th International Project Competition and Exhibition


VISAI 2023 – 13th International Project Competition and Exhibition


VISAI 2022 – 12th International Project Competition and Exhibition

Industry Intervention Model



ENABLER 7: INDUSTRY COLLABORATION AND ALUMNI ENGAGEMENTS 2026-2040

Strengths & Achievements:

During the short-term period, Vel Tech aims to significantly strengthen its industry interface and alumni engagement ecosystem by expanding active industry collaborations and structured engagement mechanisms. Industry partnerships will be enhanced through an increased number of MoUs with OEMs, MSMEs, IT parks, and corporate partners, enabling stronger collaboration in internships, curriculum delivery, and applied research. Joint R&D projects will be scaled up, supported by the establishment of additional industry-sponsored laboratories in emerging technology domains. Student learning will be enriched through expanded industry internships, while faculty exposure to industry practices will be strengthened through sabbaticals and structured industry immersion programmes. Industry experts will increasingly contribute to academic delivery through guest lectures, technical sessions, and skill-based modules. Corporate-backed startup support and CSR contributions will be enhanced to strengthen entrepreneurship linkages. Alumni engagement will be formalized through the establishment of a functional Alumni Advisory Board, the creation of regional and international alumni chapters, and the introduction of structured alumni mentorship programs. Digital alumni databases and networking platforms will be initiated to facilitate engagement, along with regular networking events, guest interactions, and alumni-supported career guidance initiatives.

Medium-Term Goals (2031–2035)

In the medium term, Vel Tech envisions deepening industry and alumni integration by expanding multinational industry partnerships and increasing collaborative research and innovation outcomes. The number of joint R&D projects and industry-sponsored laboratories will grow substantially, including collaborations with global industry partners. Student internships and faculty sabbaticals in industry will be further scaled to strengthen employability and applied research capabilities. Industry professionals will play a larger role in curriculum delivery, project mentoring, and entrepreneurship development. Corporate startup support mechanisms and CSR funding will be strengthened to enable sustained innovation and incubation activities. Alumni engagement will mature with global representation on the Alumni Advisory Board, expanded international alumni chapters, and a significantly larger alumni mentorship network supporting students and startups. Alumni contributions will increase through structured giving programs, while digital alumni platforms will evolve into global business and networking ecosystems. Continuing education offerings and career transition services will be expanded to support lifelong learning and professional advancement for alumni worldwide.

Long-Term Goals (2036–2040)

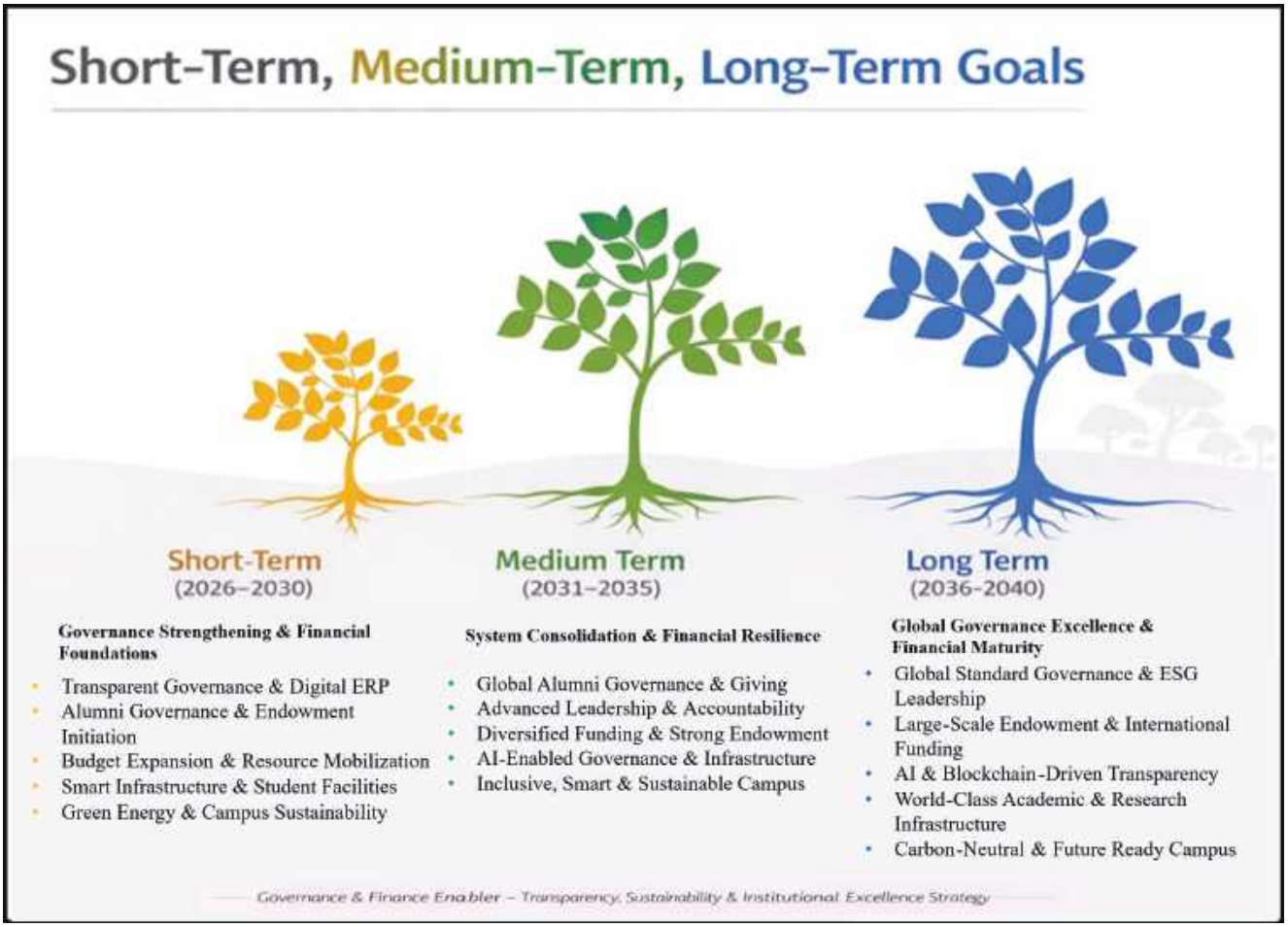
By the long-term phase, Vel Tech aspires to establish a globally integrated industry–academia–alumni ecosystem that drives innovation, employability, and institutional sustainability. Industry collaborations will expand to a large network of global partners, supporting advanced joint R&D projects, global innovation labs, and large-scale industry-sponsored infrastructure. Student internships, faculty industry sabbaticals, and industry-led academic delivery will become deeply embedded in the academic framework. Strong entrepreneurship linkages will be sustained through corporate startup support and strategic CSR partnerships. Alumni engagement will reach global maturity through a recognized international alumni council, extensive global chapters, and a large, active mentorship network. Alumni contributions will form a significant pillar of institutional development, supported by structured annual giving and endowment models. Digital alumni services will be fully integrated, offering lifelong networking, learning, career, and entrepreneurship support. Regular global business networking events, career hubs, and continuing education programs will position Vel Tech as a lifelong partner for industry professionals and alumni, reinforcing its global reputation and impact.

Enabler 7: Industry Collaboration and Alumni Engagement (2026–2040) — Summary Roadmap

Dimension	Short-Term Goals (2026–2030)	Medium-Term Goals (2031–2035)	Long-Term Goals (2036–2040)
Industry Partnerships & MoUs	Expand active MoUs with OEMs, MSMEs, IT parks, and corporate partners	Scale partnerships with leading industries and sectoral clusters	Establish deep, outcome-driven global industry partnerships
Industry-Aligned Curriculum & Credit Courses	Introduce credit courses taught by industry experts; strengthen industry-aligned curriculum	Expand number of industry-led credit courses and curriculum co-design	Institutionalize industry-driven curriculum design across programs
Industry-Sponsored Laboratories	Establish additional industry-collaborated laboratories	Expand industry-sponsored labs in emerging and strategic domains	Develop advanced industry–academia research and innovation labs
Internships & Experiential Learning	Strengthen semester-long internships, in-plant training, and industry projects	Expand large-scale internships and applied learning opportunities	Achieve universal experiential learning with global industry exposure
Industry Projects & Translational Research	Promote MSME and industry problems as minor and major student projects	Scale joint R&D, consultancy, and translational research projects	Institutionalize large-scale translational research and technology deployment
Faculty Industry Immersion	Initiate faculty industry internships and sabbaticals	Expand structured faculty immersion and joint supervision models	Sustain faculty leadership in industry–academia collaborative research
Professor of Practice & Adjunct Faculty	Appoint Professors of Practice and adjunct faculty from industry	Expand PoP and adjunct faculty engagement across departments	Institutionalize long-term industry faculty participation in academics
Industry-Linked Events & Platforms	Conduct industry-collaborated SDG events, workshops, and expert talks	Expand industry-led conferences, hackathons, and innovation challenges	Establish flagship industry–academia platforms and annual conclaves
Alumni Engagement & Networking	Strengthen alumni mentoring, career guidance, and engagement activities	Expand alumni chapters, mentorship networks, and academic support	Develop a global alumni-driven innovation and mentoring ecosystem
Alumni Contribution & Institutional Support	Encourage alumni participation in academics, placements, and outreach	Strengthen alumni contributions to research, innovation, and internships	Institutionalize alumni support for academics, research, and development

ENABLER 8: GOVERNANCE AND FINANCE 2026-2040

The Governance roadmap (2026–2040) outlines Vel Tech's strategic vision to build a transparent, globally benchmarked, and future-ready governance ecosystem through strengthened alumni engagement, enhanced financial sustainability, and comprehensive digital transformation. The plan focuses on establishing active global alumni chapters, structured mentorship networks, and growing alumni contributions while adopting advanced governance practices such as AI-driven decision-making and blockchain-based systems. It envisions significant expansion of academic infrastructure—including smart classrooms, advanced laboratories, research parks, and world-class student facilities—alongside major improvements in sustainability, healthcare, mobility, and community spaces. With strong emphasis on leadership development, diversity, accountability, and global partnerships, Vel Tech aims to evolve into a governance model recognized internationally for excellence, inclusiveness, and innovation by 2040.



Short-Term Goals (2026–2030)

During the short-term period, Vel Tech will focus on strengthening governance structures, financial sustainability, and institutional transparency. Alumni engagement mechanisms will be formalized through the establishment of a fully functional Alumni Advisory Board, expansion of regional and global alumni chapters, and the introduction of structured alumni mentorship programs.

Digital alumni platforms will be developed to support networking, continuing education, and career transition services, supported by regular business networking events. Strategic governance will be guided by the launch of the Vision 2035 roadmap, accompanied by annual financial audits and the introduction of transparent digital dashboards for stakeholders. Financial management will be strengthened through an expanded annual budget, establishment of an endowment fund, and diversified resource mobilization through corporate CSR and alumni contributions. Governance processes will move toward full digitalization through ERP-based academic and financial systems. Inclusivity will be promoted by increasing women's participation in key governance bodies. Academic and research infrastructure will be enhanced through fully smart-enabled classrooms, expansion of laboratories and research parks, and increased student housing capacity. Sustainability initiatives will include expanded renewable energy generation, green-certified buildings, and improved water reuse systems. Student wellness, transport, and community spaces will be strengthened through upgraded medical facilities, counseling services, electric mobility initiatives, and expanded auditoria and innovation hubs.

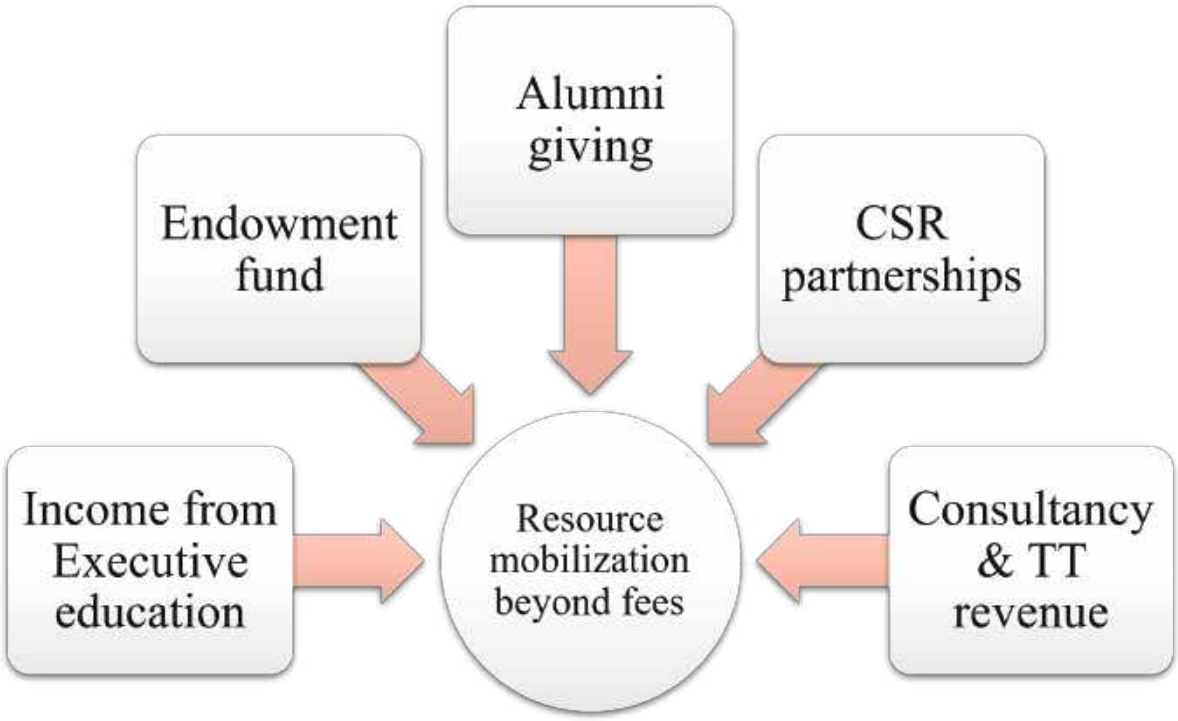
Medium-Term Goals (2031–2035)

In the medium term, Vel Tech aims to consolidate its governance and financial systems by adopting advanced leadership development practices and strengthening accountability and stakeholder engagement. Alumni governance will gain global representation, with expanded alumni chapters, a larger mentorship network, increased alumni contributions, and enhanced lifelong alumni services through global digital platforms. Governance processes will mature through mid-term reviews, structured leadership development for academic administrators, and the introduction of stakeholder satisfaction surveys. Financial sustainability will be reinforced through a significantly enhanced annual budget, a strengthened endowment fund, and diversified funding from philanthropic foundations and external partners. Digital governance will advance through AI-driven decision-support systems, while inclusivity will be deepened by broader representation of women, persons with disabilities, and socially and economically disadvantaged groups in governance bodies. Academic infrastructure will expand with AI-enabled adaptive classrooms, advanced laboratories in emerging domains, expanded research parks, and smart student housing. Digital infrastructure will be enhanced through integrated LMS platforms and AI-powered ERP systems. Sustainability infrastructure will progress toward a renewable energy mix, water-positive operations, and expanded green buildings. Healthcare and wellness services will evolve into a professional wellness center, while campus mobility will increasingly shift to electric transport. Social and innovation spaces will expand through additional convention centers and student innovation hubs.

Long-Term Goals (2036–2040)

By the long-term phase, Vel Tech aspires to emerge as a benchmark institution in governance excellence, financial robustness, and inclusive leadership with strong global alignment. Alumni governance will mature into a recognized global alumni council with extensive international chapters, a large mentorship network, and sustained annual contributions forming a key pillar of institutional development.

Leadership succession planning will be fully institutionalized, supported by global-standard ESG and governance reporting. Financial management will reach advanced maturity through a substantially expanded annual budget, a strong global endowment fund, and international funding partnerships. Governance innovation will leverage AI-driven and blockchain-enabled systems to ensure transparency, efficiency, and trust. Inclusivity will be embedded into governance culture through diverse and representative leadership structures. Academic, research, and student infrastructure will achieve global standards with fully digital and adaptive classrooms, world-class laboratories, large-scale global research hubs, international hostels, and global sports and wellness complexes. Digital infrastructure will become globally interoperable, supporting teaching, learning, and governance at scale. Sustainability initiatives will culminate in a carbon-neutral, zero-waste, and water-positive campus. Healthcare services will evolve into a multi-specialty hospital with advanced wellness monitoring, while campus mobility will become fully carbon neutral. Community, innovation, and social spaces will reach global benchmarks through world-class convention centers and extensive student innovation ecosystems, positioning Vel Tech as a globally respected, future-ready university.



Enabler 8: Governance and Finance (2026–2040) — Summary Roadmap

Dimension	Short-Term Goals (2026–2030)	Medium-Term Goals (2031–2035)	Long-Term Goals (2036–2040)
Governance Structure & Leadership	Strengthen statutory bodies (BoS, Academic Council, Executive Council) with clear roles and accountability	Enhance participatory governance with data-driven decision-making	Achieve globally benchmarked governance practices with institutional autonomy and accountability
Policy Frameworks & Compliance	Review and align academic, research, HR, and financial policies with NEP 2020 and UGC guidelines	Periodic policy updates based on national reforms and best practices	Sustain agile, future-ready policy frameworks aligned with global standards
Digital Governance & ERP Systems	Strengthen ERP, MIS, and digital workflows for academic and administrative processes	Integrate advanced analytics and decision-support systems	Achieve fully integrated, AI-enabled digital governance ecosystem
Financial Sustainability & Resource Planning	Strengthen budgeting, internal audits, and financial controls	Diversify revenue streams beyond tuition fees	Achieve long-term financial sustainability with balanced and diversified income sources
Revenue Diversification	Enhance income through consultancy, executive programs, and training	Expand non-tuition revenue through research commercialization and partnerships	Establish strong non-tuition revenue base supporting institutional growth
Budget Allocation & Monitoring	Allocate funds strategically for academics, research, infrastructure, and capacity building	Implement outcome-based budgeting and performance-linked allocation	Institutionalize transparent, outcome-driven financial governance
Internal Quality Assurance & Audits	Strengthen IQAC processes and internal quality audits	Integrate continuous quality improvement mechanisms	Achieve mature quality governance aligned with global accreditation frameworks
Risk Management & Transparency	Strengthen internal controls, audits, and compliance mechanisms	Introduce structured risk management and mitigation frameworks	Achieve resilient, transparent, and accountable institutional governance
Stakeholder Participation	Enhance involvement of faculty, students, alumni, and industry in governance processes	Institutionalize stakeholder feedback in planning and review	Sustain inclusive governance with strong stakeholder ownership
Strategic Planning & Review	Implement phased IDP roadmap with periodic reviews	Strengthen monitoring and mid-course corrections	Institutionalize long-term strategic foresight and adaptive planning

The Infrastructure & Facilities roadmap outlines Vel Tech's strategic plan to develop a future-ready, sustainable, and digitally enabled campus by 2040 through significant upgrades in digital systems, sustainability infrastructure, healthcare, mobility, and community spaces. The plan focuses on scaling the LMS and ERP into AI-enabled, globally interoperable platforms while transitioning the campus to carbon-neutral operations through expanded renewable energy, green-certified buildings, and water-positive, zero-waste systems. It also envisions comprehensive healthcare and wellness facilities, including a multi-specialty hospital and advanced counseling services, alongside eco-friendly transport solutions. Enhanced auditoria, convention centers, and social spaces further support academic, cultural, and global engagements, positioning Vel Tech as a world-class institution with holistic infrastructure supporting excellence in education, research, and student life.

Short-Term Goals (2026–2030)

During the short-term period, Vel Tech will focus on strengthening its core infrastructure and facilities to support academic growth, sustainability, and student well-being. Digital infrastructure will be enhanced by scaling the Learning Management System from a capacity of 15,000 to 25,000 users, alongside the implementation of full digital governance through ERP-based academic and administrative systems. Sustainability infrastructure will see a significant expansion with solar energy capacity increasing from 500 kW to 2 MW, supported by wind energy pilot projects. Green infrastructure initiatives will result in three green-certified buildings, while water and waste management systems will be upgraded to achieve 60% reuse and recycling through enhanced rainwater harvesting and waste segregation practices. Healthcare facilities will be strengthened with the establishment of a 24×7 medical center supported by two ambulances, and student wellness services will expand to include 10 or more counselors. Campus mobility will be improved through the introduction of 20 electric buses, supporting a shift toward sustainable transport. Community and social infrastructure will be expanded through the addition of five auditoria and halls along with one convention center, creating enhanced spaces for academic and cultural engagement.

Short-Term Goals (2026–2030)

In the medium-term phase, Vel Tech aims to further advance infrastructure capacity and technological sophistication to meet growing academic and research demands. The LMS will be enhanced with integrated AI and machine learning features, enabling adaptive and personalized learning experiences. Sustainability initiatives will scale up with a 4 MW renewable energy mix, moving the campus closer to energy self-sufficiency. Green building initiatives will expand to include more than 10 green-certified buildings, while water and waste management systems will progress toward a 90% water-positive campus. Healthcare infrastructure will evolve with the establishment of a 50-bed campus hospital, complemented by a professional wellness center offering structured physical and mental health services. Campus transport will transition toward a full electric vehicle fleet supported by cycle tracks, reducing the campus carbon footprint. Community infrastructure will be further strengthened with the development of 10 auditoria and halls and two convention centers, enabling large-scale academic, cultural, and international events.

Long-Term Goals (2036–2040)

By the long-term phase, Vel Tech envisions achieving global standards in infrastructure, sustainability, and digital governance. Digital systems will mature into a globally interoperable LMS, supported by blockchain-enabled governance and financial systems. Sustainability infrastructure will culminate in a 6+ MW renewable energy capacity, enabling a fully carbon-neutral campus. All campus buildings will achieve 100% green certification, while water and waste management systems will ensure a 100% zero-waste and water-positive campus. Healthcare and wellness infrastructure will reach advanced levels with the establishment of a 100-bed multi-specialty hospital and a comprehensive wellness hub equipped with AI-based health monitoring systems. Campus mobility will become a fully carbon-neutral transport ecosystem, integrating electric vehicles and non-motorized transport. Community and social spaces will evolve into a world-class convention and exhibition center, positioning the university as a preferred destination for global academic, industry, and cultural engagements.

Enabler 9: Infrastructure and Facilities (2026–2040) — Summary

Dimension	Short-Term Goals (2026–2030)	Medium-Term Goals (2031–2035)	Long-Term Goals (2036–2040)
Academic Infrastructure	Upgrade classrooms, laboratories, and learning spaces to support NEP-aligned teaching	Expand academic blocks and specialized facilities for multidisciplinary programs	Sustain world-class academic infrastructure with global benchmarking
Research Infrastructure	Strengthen Research Park Phase-I labs and shared research facilities	Expand industry-sponsored labs and advanced research facilities	Develop global-scale Research Park with anchor industry and research tenants
Centres of Excellence (CoEs)	Strengthen existing CoEs with modern equipment and shared access	Expand CoEs in emerging and strategic domains	Establish internationally competitive CoEs with global partnerships
Digital Infrastructure & Smart Classrooms	Enhance LMS platforms and digital teaching tools	Expand smart classrooms and integrated digital learning systems	Achieve 40% smart classroom coverage with globally connected digital platforms
Library & Knowledge Resources	Strengthen digital libraries and research databases	Expand access to global knowledge repositories	Integrate institutional libraries with global academic networks
Student Housing & Campus Facilities	Upgrade hostels, dining, and recreational facilities	Expand student housing capacity and campus amenities	Provide comprehensive, globally benchmarked residential campus experience
Green & Sustainable Infrastructure	Strengthen green buildings and energy-efficient systems	Expand renewable energy, electric mobility, and sustainable utilities	Achieve fully green, smart, and sustainable campus infrastructure
Sports, Wellness & Recreation	Upgrade sports facilities and wellness centers	Expand indoor and outdoor sports and fitness infrastructure	Develop world-class sports and wellness ecosystem
Accessibility & Inclusivity	Improve campus accessibility and student support facilities	Strengthen inclusive infrastructure and assistive technologies	Achieve fully inclusive and universally accessible campus
Safety, Security & Resilience	Strengthen campus safety systems and emergency preparedness	Integrate advanced surveillance and smart security systems	Achieve resilient, technology-enabled campus safety and disaster readiness
Support Infrastructure	Upgrade power, water, transport, and ICT support systems	Expand utility capacity to meet growing institutional needs	Sustain robust, scalable support infrastructure for long-term growth

Review, Monitoring and Mid-course Correction Framework

The successful implementation of the Institutional Development Plan (IDP) requires a robust, transparent, and data-driven mechanism for continuous review, monitoring, and mid-course correction. Vel Tech has therefore instituted a structured Review, Monitoring and Mid-course Correction Framework to ensure that strategic objectives across all nine enablers are systematically tracked, evaluated, and refined throughout the IDP period (2026–2040).

This framework is designed to support outcome-based governance, enable evidence-driven decision-making, and ensure timely corrective actions in response to internal assessments and external developments.

1. Annual Performance Review through Key Performance Indicators (KPIs)

Each of the nine enablers defined in the IDP is supported by a clearly identified set of annual Key Performance Indicators (KPIs). These KPIs cover academic, research, innovation, global engagement, sustainability, governance, and infrastructure dimensions and are aligned with national benchmarks such as NEP 2020, NAAC, NIRF, QS, and THE frameworks.

Annual KPI reviews will be conducted at the institutional level with the following objectives:

- **To measure year-on-year progress against short-, medium-, and long-term targets defined for each enabler**
- **To identify performance gaps, delays, or emerging risks at an early stage**
- **To assess alignment between planned initiatives, financial allocations, and achieved outcomes**

The annual KPI review outcomes will be documented, presented to statutory bodies, and used as the primary input for institutional planning and resource allocation in subsequent years.

2. Digital Data Dashboards for Continuous Monitoring

To enable real-time visibility and transparency, Vel Tech will develop digital data dashboards integrating academic, research, financial, infrastructure, and outreach metrics across all nine enablers.

These dashboards will:

- **Provide real-time and periodic data on key institutional indicators**
- **Enable leadership and functional heads to track progress at any point in time**
- **Support comparative analysis across years and enablers**
- **Facilitate evidence-based discussions during reviews and audits**

The dashboard-based monitoring mechanism will ensure that IDP implementation moves beyond

3. Mid-Term Strategic Reviews (2030 and 2035)

In addition to annual reviews, comprehensive mid-term evaluations will be undertaken at two critical milestones—2030 and 2035—corresponding to the completion of short-term and medium-term phases of the IDP.

These mid-term reviews will focus on:

- **Assessment of cumulative progress against phase-specific targets**
- **Evaluation of the relevance and effectiveness of strategies adopted**
- **Identification of structural, policy, or investment-related constraints**
- **Re-prioritization of initiatives based on emerging national and global higher-education trends**

The outcomes of the mid-term reviews will inform recalibration of targets, timelines, and strategies for the subsequent phase of the IDP.

4. Executive Council Oversight and Governance Review

The Executive Council (EC) will play a central role in institutional oversight of the IDP implementation. Periodic IDP progress reports, supported by KPI data and dashboard analytics, will be placed before the EC for review.

The Executive Council will:

- **Review progress across all nine enablers at defined intervals**
- **Record strategic observations, directives, and recommendations**
- **Approve policy-level changes, resource reallocations, and corrective measures**
- **Ensure alignment between institutional vision, regulatory expectations, and operational execution**

All EC deliberations related to IDP progress will be formally recorded and integrated into subsequent action plans.

5. Mid-course Corrections and Action Planning

Based on insights from annual KPI reviews, mid-term evaluations, and Executive Council feedback, mid-course corrections will be systematically undertaken to address identified gaps or emerging challenges.

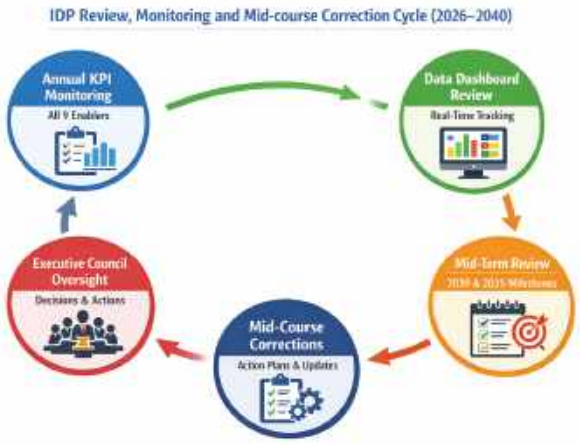
Mid-course corrections may include:

- **Revision of targets, timelines, or implementation strategies**
- **Reallocation of financial and human resources**
- **Introduction of new policy instruments or governance mechanisms**
- **Strengthening of institutional capacity in priority areas**

Corrective actions will be translated into time-bound action plans, assigned to responsible units, and tracked through the digital monitoring system to ensure effective closure.

6. Continuous Improvement and Institutional Learning

The Review, Monitoring and Mid-course Correction Framework is conceived not merely as a compliance mechanism but as a continuous improvement system. Lessons learned from each review cycle will be systematically documented and institutionalized to strengthen planning, execution, and governance practices over time.



cyclical framework ensures that the IDP ains dynamic, responsive, and resilient, enabling Tech to adapt proactively to evolving academic, nological, and societal contexts while remaining ly aligned with its long-term strategic vision.

KPI for Monitoring & Review of IDP (2026–2040)

Enabler	KPI Category	Key Performance Indicators (KPIs)	Review Frequency	Monitoring Authority
Enabler 1: Academic Excellence	Academic Programs & Quality	Student strength; number of UG/PG/Integrated programs; NEP-aligned curriculum implementation; student–faculty ratio; accreditation status (NAAC/NBA/ABET)	Annual	Academic Council / IQAC
	Teaching–Learning Outcomes	Graduation rate; progression to higher education; student satisfaction index; learning outcome attainment (OBE)	Annual	Academic Council
	Rankings & Visibility	NIRF rankings (University/Engineering/Overall); QS/THE participation	Annual	IQAC
Enabler 2: Research Excellence	Research Funding	Number and value of funded research projects; external grants mobilized	Annual	Research Council
	Research Output & Impact	Publications (total, Q1/Q2); citations; h-index distribution; international co-authorship	Annual	Research Council
	Doctoral Programs	PhD enrollment; completion rate; average time-to-degree	Annual	Research Council
	IPR & Commercialization	Patents filed/granted; technology transfers; startup spin-offs	Annual	IPR Cell / TBI
Enabler 3: Capacity Development	Faculty Capacity	% PhD-qualified faculty; FDP participation; industry exposure; leadership training	Annual	HRD / IQAC
	Student Capacity	Participation in workshops, competitions, certifications, internships	Annual	Deans / HoDs
	Non-Teaching Staff	Training hours; ERP proficiency; role-specific skill development	Annual	Administration

Enabler 4: Global Visibility & Collaboration	Non-Teaching Staff	Training hours; ERP proficiency; role-specific skill development	Annual	Administration
	Internatio nalization	Number of active international MoUs; inbound/outbound students and faculty	Annual	International Relations Office
	Global Research	NIRF rankings (University/Engineering/Overall); QS/THE participation	Annual	Research Council
	Global Branding	International conferences; global academic events; foreign student enrollment	Annual	DINT
Enabler 5: Innovation, Incubation & Entrepre-neurship	Startup Ecosystem	Number of incubated startups; funded startups; survival rate	Annual	TBI / IIC
	Innovation Funding	Innovation grants mobilized; seed funding deployed	Annual	TBI
	IPR & Commercialization	Patents from startups; licensed technologies; revenue generated	Annual	IPR Cell / TBI
Enabler 6: SDGs & Extension Activities	Campus Sustainability	Renewable energy usage; waste recycling rate; water positivity indicators	Annual	Campus Affairs (DCA)
	SDG Integration	SDG-linked projects; student participation; social impact indicators	Annual	Campus Affairs (DCA)
	SDG Integration	SDG-linked projects; student participation; social impact indicators	Annual	IQAC
Enabler 7: Industry Collaboration & Alumni Engagement	Industry Engagement	Active industry MoUs; internships; industry-sponsored labs/projects	Annual	Industry Relations
	Faculty–Industry Linkage	Consultancy projects; faculty industry immersion	Annual	Deans / HoDs
	Alumni Engagement	Active alumni chapters; mentorship programs; alumni contribution	Annual	Alumni Cell

Enabler 8: Governance & Finance	Governance Effectiveness	Frequency of statutory meetings; policy reviews; compliance status	Annual	Executive Council
	Financial Sustainability	Revenue diversification ratio; non-tuition income; audit compliance	Annual	Finance Committee
	Digital Governance	ERP coverage; MIS dashboards; data-driven decisions	Annual	Administration
Enabler 9: Infrastructure & Facilities	Academic Infrastructure	Built-up area; smart classrooms; lab modernization	Annual	Administration
	Research Infrastructure	CoEs operational; research park utilization	Annual	Research Council
	Student & Campus Facilities	Hostel capacity; sports & wellness facilities; safety infrastructure	Annual	Administration