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Principal

Strategies for Enhancing Academic, Research, and Societal Metrics Towards **Viksit Bharat @2047 (As per NEP-2020)**

In alignment with the National Education Policy (NEP) 2020 and the national vision of **Viksit Bharat @2047**, Avanthi Institute of Engineering & Technology (AIETM) envisions transforming itself into a multidisciplinary, research-oriented, and socially responsive institution. The following strategies focus on strengthening **academic excellence, research innovation, and societal engagement** to foster employability, entrepreneurship, equity, and sustainable development.

1.0 Academic Metrics

1.1 Outcome-Based Multidisciplinary Curriculum

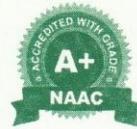
AIETM adopts flexible, outcome-based and multidisciplinary curricula with multiple entry and exit options, majors/minors, and integration of vocational and skill-based courses aligned with the National Skills Qualifications Framework (NSQF), enabling holistic student development.

1.2 Enhancement of GER and Skill-Oriented Education

The institute is contributing to increase the Gross Enrolment Ratio (GER) by offering inclusive, skill-focused programs emphasizing 21st-century competencies such as Artificial Intelligence, Data Science, Cyber Security, Green Technologies, sustainability, innovation, and ethical practices, shifting from rote learning to experiential learning.

1.3 Lifelong Learning and Digital Pedagogy

AIETM promotes lifelong learning through SWAYAM, NPTEL, MOOCs, virtual laboratories, blended learning models, and micro-credential recognition, ensuring accessibility, flexibility, and continuous upskilling in tune with emerging technologies.



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1.4 Faculty Development and Academic Leadership

Continuous professional development is strengthened through Faculty Development Programs (FDPs), research training, industry exposure, merit-based recruitment, and performance-linked incentives, aligned with NAAC/NBA quality benchmarks and global best practices.

1.5 Research-Oriented Academic Ecosystem

AIETM aims to evolve into a research-driven institution by promoting interdisciplinary learning, innovation culture, academic autonomy, and outcome-based education to enhance employability, higher studies, and institutional reputation.

2.0 Research Metrics

2.1 Development of Research Culture and Clusters

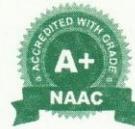
The institute has established focused research groups and research centres in emerging areas of engineering and technology, encouraging funded projects, innovation clusters, and industry-relevant research aligned with national priorities.

2.2 Academia–Industry–Government Collaboration

AIETM is strengthening collaborations with industry, research organizations, and government agencies through internships, consultancy, joint research, sponsored projects, patents, and technology transfer initiatives supported by national schemes.

2.3 Promotion of Interdisciplinary and Applied Research

Interdisciplinary research addressing societal challenges such as renewable energy, healthcare, smart infrastructure, AI applications, and environmental sustainability are encouraged through collaborative projects and open-access publications.



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2.4 Research Integration in Curriculum

Research components are embedded into undergraduate and postgraduate programs, motivating students and faculty to produce tangible outputs such as publications, patents, prototypes, startups, and innovative solutions.

2.5 Global Partnerships and Performance Monitoring

AIETM pursue global academic partnerships, faculty and student exchange programs, and international collaborations, while monitoring progress through defined Key Performance Indicators (KPIs) related to research output, funding, and innovation.

3.0 Societal Metrics

3.1 Equity, Inclusion, and Access

The institute ensures inclusive education by supporting students from SC/ST/OBC, minorities, women, and rural backgrounds through scholarships, fee concessions, mentoring, regional-language support, and outreach programs.

3.2 Digital Infrastructure for Inclusive Growth

By leveraging digital platforms, ICT-enabled classrooms, online resources, and virtual labs, AIETM bridges the urban-rural divide and contribute towards achieving universal access to quality education.

3.3 Integration of Human Values and Sustainability

AIETM Curricula integrates ethics, environmental consciousness, social responsibility, Indian knowledge systems, and community engagement to nurture responsible engineers and socially conscious citizens.

3.4 Social Innovation and Entrepreneurship

AIETM fosters social innovation through incubation centers, startup support, and community-based projects aimed at solving real-world problems and promoting local and national development.



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3.5 Governance, Transparency, and Autonomy

The institute will adopt transparent governance practices, digital academic systems, Academic Bank of Credits (ABC), and institutional autonomy frameworks to enhance accountability, quality assurance, and stakeholder trust.

AIETM reaffirms its commitment to contributing meaningfully to the nation's journey towards Viksit Bharat @2047 by nurturing competent professionals, innovative researchers, and responsible citizens.
