



(AUTONOMOUS)

Affiliated to JNTUH, Approved by AICTE, Accredited by NAAC with A++ Grade
Kacharam, Shamshabad, Hyderabad- 501 218, Telangana, India

PLANNING AND EVALUATION COMMITTEE

Vision, Mission and Quality Policy

Vision:

- To be a pioneer institute and leader in engineering education to address societal needs through education and practice.

Mission:

- To adopt innovative student centric learning methods.
- To enhance professional and entrepreneurial skills through industry institute interaction.
- To train the students to meet dynamic needs of the society.
- To promote research and continuing education.

Quality Policy:

- We at Vardhaman College of Engineering, endeavour to uphold excellence in all spheres by adopting the best practices in effort and effect.

SWOC Analysis

Institutional Strengths

Institutional Leadership & Governance:

- Guided by progressive and supportive management cultivating academic excellence and continuous growth. The Governing Body comprises distinguished members from society, administration, academia, and industry, ensuring ongoing development.
- The institution operates under robust **Policies and Standard Operating Procedures (SOPs)** that facilitate smooth governance and clearly define roles and responsibilities across all levels. **Statutory and non-statutory** committees actively participate in decision-making, ensuring transparent, efficient, and participative management practices.
- Well-defined vision, mission, and Program Educational Objectives (PEOs) are strategically aligned with institutional goals. Comprehensive strategic planning is implemented to ensure continuous growth aligned with the long-term vision of the institution.

Accreditations & Academic Excellence:

- Achieved NAAC accreditation at the highest A++ grade with a CGPA of 3.58/4.
- All eligible UG programs accredited by NBA under Tier-I category (Washington Accord compliance); PG Management program also NBA accredited.
- Dynamic, future-focused curriculum incorporating industry trends and NEP 2020 provisions, approved by BOS and Academic Council.
- Integration of Purdue University courses, exposing students to global standards.
- Robust Outcome-Based Education (OBE) framework with interdisciplinary courses, Bloom's Taxonomy-aligned assessments, Alternate Assessment Tools (AAT), and project rubrics.

Faculty Strength & Development:

- Highly qualified faculty team of 313 members, including 144 Ph.D. holders, with balanced focus on teaching, research, and consultancy.
- Impressive faculty retention due to positive academic environment, strong values, and continuous professional development.
- Optimal Student-Faculty Ratio (SFR) maintained alongside adherence to prescribed faculty cadre ratios.
- Regular faculty development through workshops, FDPs, and use of a digital studio for MOOC creation.

Research & Innovation:

- Recognized by DSIR as a Scientific and Industrial Research Organization (SIRO) and as a Research Center by JNTUH in all core engineering disciplines.
- Over 80% faculty with Ph.D., serving as research supervisors nationally.
- 100+ funded R&D projects completed (₹18+ crores) and 15 ongoing projects (₹5+ crores) with support from DST, AICTE, UGC, ICSSR, and others.
- Innovation-driven initiatives like AICTE IDEA Lab and Vardhaman Research Promotion Scheme (VRPS) with ₹1.5+ crores investment.
- 400+ patents filed (35+ granted), 3500+ publications (250+ in Q1 journals), and 10,000+ citations.
- Strong global and national collaborations with universities (Purdue, UT Dallas, IITs, IISc) fostering joint research and exchange programs.
- Industry Collaboration & Societal Outreach
- 20+ Centers of Excellence with industry leaders including Intel, Salesforce, Cadence, NI, and MathWorks, enabling internships and problem-solving.
- STEM education outreach to 2000+ school students and 300+ teachers in underserved communities aligned with SDG 4.
- MoU with ChipIN Center to advance semiconductor skills, benefiting 350+ students and faculty.
- Consultancy projects generating ₹2+ crores in revenue with industry partners such as Dynosole and Powertronics.
- Robust entrepreneurial ecosystem via VEC-CRIF (Section 8 Company) recognized by Ministry of MSME, and implementation of National Innovation and Startup Policy (NISP).

Infrastructure & Learning Environment:

- Architecturally impressive campus with green, environmentally conscious spaces.
- Smart classrooms, advanced laboratories, high-speed internet, and a well-stocked library with extensive physical and digital resources.
- Comprehensive hostels, sports facilities, student lounges, and amenities supporting balanced student life.
- Well-maintained laboratories facilitating hands-on practical learning.
- Systematic documentation and ERP-enabled administration ensuring smooth academic and support operations.

Student Development & Support:

- Vibrant learning communities, clubs, and consistently strong admissions (95%-100%) with high academic success rates.
- Career Development & Training and Placement (T&P) cells provide continuous training, mentorship, value-added courses, and maintain over 90% placement rates in reputed companies.
- Registered alumni association with 7,618 members actively contributing through mentoring, internships, and institutional development.
- Emphasis on industrial visits, extension lectures, and self-learning spaces fostering industry readiness and independent learning.

Entrepreneurship & Innovation Ecosystem:

- 31 student entrepreneurs and 80+ innovation awareness activities reflecting entrepreneurial culture.
- 4-star rating by Institution's Innovation Council (IIC), Host Institute for MSME, and AICTE-MIC funded Mentor Institute under Ministry of Education Innovation Cell.
- Adoption of National Innovation and Startup Policy (NISP) and collaborations with Telangana State Innovation Cell and MSME.
- Outreach through ATAL Tinkering Lab and CISCO Thing Qbator promoting innovation among school and college students.
- VEC Experimental Hub Pvt. Ltd. (V-Hub) offering pre-incubation, co-working spaces, and consultancy for startups.
- Makers Space with 3D printing and prototyping facilities supporting sustainable innovations.
- E-Cell organizing business plan contests, pitch battles, hackathons, workshops, and networking events with entrepreneurs and investors.
- Major events like E-Summits, startup expos, and investor meetups nurturing a vibrant entrepreneurial ecosystem.

Community Engagement:

- Active participation in community outreach through NSS and NCC, fostering social responsibility among students.

Institutional Weakness

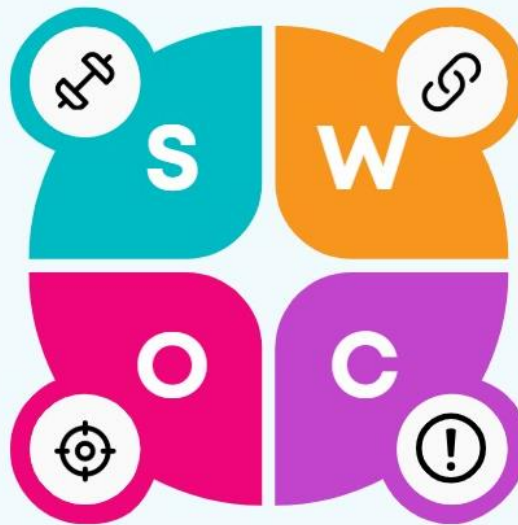
- Need to strengthen industry collaboration for faculty training, conduction of corporate training programs, and industry-sponsored research
- Limited foreign collaborations in R&D activities
- Consultancy Limited faculty exposure to industry practices and inadequate promotion of institutional capabilities have constrained the growth of consultancy activities
- Challenges in attracting NRI students, resulting in a lack of global perspectives.
- Insufficient targeted marketing strategies for out-of-state and out-of-region students, reducing the institution's outreach potential.
- Remote location of the institute.

Strengths

- Visionary Institutional Leadership & Governance
- Prestigious Accreditations & Academic Excellence
- Robust Faculty Strength & Continuous Development
- Thriving Research & Innovation Culture

Opportunities

- National & International Collaborations
- Center for Innovation and Entrepreneurship



Weaknesses

- Limited foreign collaborations in R&D
- Challenges in attracting NRI students

CHALLENGES

- Rapid technological advancements
- Inaccurate or unfair grading by ranking agencies

Institutional Opportunities

- A pathway has been established for attaining the status of a 'degree-granting autonomous institute.'
- Abundant placement opportunities in the IT sector, enhancing student career prospects.
- Potential for collaborations with prestigious national and international Academic / Research institutions & Industries.
- Opportunity to leverage a strong alumni network for the advancement of the college.
- Ample internship opportunities in and around the city for students across various disciplines.
- Proximity to the airport provides opportunities to connect with renowned national and international figures.
- The institute's location, though distant from the city, encourages day scholars to remain on campus, creating a more immersive academic environment.
- Opportunity to transform pedagogical approaches and integrate cutting-edge technology and relevant courses into the curriculum.
- Scope to develop incubation facilities for tech-based startups, increasing the viability of market-driven innovation.
- A diverse teaching-learning-evaluation system developed by the institute enables the attainment of higher-order thinking skills (HOTS).
- Leveraging the extensive alumni network of the institute as off-campus resource personnel for the internship program and to enhance start-up initiatives.
- Active engagement in community development programs to address regional needs
- Strengthening collaborations with local industries for student projects and experiential learning
- Excellent air & train connectivity with other parts of the country, especially the national capital.
- Institutional standards align with global recognition and Accreditations from International bodies

- Engagement of International Faculty Through MoU with Purdue University for Engineering and projects in community services courses' Courses

Institutional Challenges

- To constantly update and upgrade curriculum, faculty expertise and laboratory infrastructure to meet the needs of stakeholders and the market
- Insufficient exposure to new technologies and facilities may hinder the delivery of high-quality education to the students.
- Competitive financial packages as well as facilities and resources offered by private and foreign competitors can lead to loss of good faculty members
- Rapid changes in government policies within the education sector have led to the emergence of new foreign and private universities, presenting significant challenges and competition.
- Diminishing placement opportunities and decreasing interest in students for core engineering branches such as Mechanical, Electrical, and Civil.
- Emergence of corporate-run universities in close proximity poses competition.
- Saturation of the engineering education market, leading to increased competition for admissions.
- Rapid technological advancements challenge the employability of students.
- Inaccurate or unfair grading by ranking agencies, impacting institutional reputation.

Section-4: Strategic Plan:2021-2026

The process of setting the strategic plan



VCE Draft Strategic Plan for AYs: 2026–31: This institutional Development Plan ensures dynamic progress and enduring prosperity.

In its 2026–31 draft Strategic Plan, VCE commits to delivering a future-ready curriculum underpinned by innovative pedagogy, elevating student well-being and holistic growth, and embedding sustainability throughout its programs. The institution will strengthen talent through progressive HR policies, expand global partnerships: with special emphasis on Indigenous collaborations: and cultivate a dynamic entrepreneurship ecosystem. By deepening ties with the community, engaging diverse stakeholders, accelerating frontier research, and upholding transparent, responsive governance, VCE charts a concise roadmap for academic excellence and broad societal impact.

We have outlined key focus areas for its upcoming Strategic Plan (2026–31):

1. Future-Ready Curriculum and Pedagogy
2. Student Well-being and Holistic Development
3. Sustainable and Green Technologies
4. Strategic Talent Management and Development (HR policies)
5. Global Engagement and Indigenous collaborations
6. Entrepreneurship and Innovation Ecosystem
7. Community Engagement and Social Impact
8. Stakeholder Engagement Strategies
9. Advanced/ Enhanced Research & Development Initiatives (R & D)
10. Transparent and Responsive Governance

Objectives and Metrics of Focused Areas

1. Future-Ready Curriculum and Pedagogy

Objectives:

- **Ensure Curriculum Relevance and Flexibility:** To continuously update and adapt the curriculum to align with evolving industry standards, technological advancements, and learner needs, while incorporating flexible learning pathways that support diverse learning styles and lifelong learning.
- **Foster Experiential and Supportive Learning Environments:** To strengthen experiential learning through project-based, real-world applications aligned with industry and societal needs, and to establish comprehensive support systems that enhance student readiness for higher education, the workforce, and meaningful societal contribution.

Metrics and Targets:

- Deemed to University Status for Academic Autonomy, research prominence
- Frequency of core syllabus refresh: Refresh core syllabus at least every 3 years.
- Availability of adaptive-learning or blended options in courses: 80% of the Courses
- Share of courses featuring capstone or industry-sponsored projects: At least 50% of courses include capstone or industry-sponsored projects annually.
- Graduate progression to higher studies: 40% of graduates enroll in higher education programs
- assessment of job-readiness: 90% of graduating students meet established job-readiness criteria.
- Percentage of programs/Courses revised annually: Revise 25% of academic programs every year.
- Graduate employment rate in emerging sectors: 60% employment rate of graduates in emerging sectors

- Employer satisfaction rating: Achieve an employer satisfaction rating of 85% or higher annually.

2. Student Well-being and Holistic Development

Objectives

- **Encourage Active Lifestyles and Continuous Wellness Education:** To promote active and healthy lifestyles while maintaining high student engagement through structured wellness education, including seminars and workshop
- **Promote Comprehensive Student Well-being:** To implement comprehensive well-being assessments and provide accessible mental health support that nurtures students' emotional resilience and holistic health through co-curricular and extracurricular activities.

Metrics and Targets:

- Student-Well-Being Survey: Achieve an average satisfaction score of **80% or above** annually
- Utilization rate of counseling and mental-health services
- Participation rate in wellness and physical-activity programs and awareness
- Absenteeism rate
- Wellness Workshops & Seminars: Conduct **a minimum of 6 workshops/seminars** annually across all departments
- Sustainable and Green Technologies : 100% waste segregation and 75% recycling efficiency, Campus-wide rainwater harvesting and greywater reuse systems, Increase green cover by **20% by 2026**,

3. Sustainable and Green Technologies

Objectives

- **Advance Environmental Sustainability and Carbon Neutrality:** To achieve carbon neutrality by transitioning to renewable energy infrastructure and implementing comprehensive waste management practices across the institution.
- **Embed Sustainability in Education and Research:** To integrate sustainability principles into academic programs and secure funding for green technology research that drives innovation and environmental stewardship.

Metrics and Targets:

- Annual reduction in campus carbon emissions (%) : Achieve a **5% annual reduction** in carbon emissions through energy efficiency, green transport, and eco-friendly practices
- Proportion of energy from renewable source : Reach **30% renewable energy usage by 2026**, with a long-term goal of **50% by 2030**.
- Number of sustainability-focused courses and project : Integrate sustainability content in at least **10% of courses** across disciplines and support
- Research funding secured for green technologies : Secure a minimum of **₹50 lakhs annually** in external or internal funding for sustainability-related research
- Percentage of waste diverted from landfill : Divert at least **75% of waste** from landfills by implementing robust waste segregation, composting, and recycling programs

4. Strategic Talent Management & Development

Objectives

- **Talent Acquisition and Workforce Diversity:** Focus on attracting a diverse, high-performing faculty through streamlined recruitment processes and cultivating an inclusive work environment.

- **Faculty Development and Retention:** Enhance professional competencies, optimize workforce retention, and encourage employee satisfaction and engagement to build a motivated and committed faculty team.

Metrics and Targets:

- Staff turnover rate : Maintain an annual turnover rate of **<10%**, indicating stability and employee retention
- Percentage of employees completing professional development annually: Ensure that **at least 85%** of employees complete **more than three professional development activities** annually
- Workforce diversity ratio: Achieve a **minimum 40:60 gender ratio** and improve representation from diverse backgrounds through inclusive hiring practices.
- Average time to fill vacancies: Reduce the average hiring time to **45 days or less**, ensuring timely onboarding of qualified candidates
- Staff engagement survey results: Achieve an average engagement score of **80% or above**, with action plans developed for identified areas of concern

5. Global Engagement & Indigenous Collaborations"

Objectives

- **Strengthen Global and Indigenous Partnerships:** Expand international partnership networks while fostering Indigenous-led research initiatives and securing dedicated funding for Indigenous programs.
- **Promote Student Mobility and Inclusion:** Facilitate cross-cultural student mobility and enhance integration and support for international and Indigenous students within the campus community.

Metrics and Targets:

- Number of active international and Indigenous MoUs : Maintain **at least 25 active international MoUs** and **expand Indigenous MoUs by 20% annually**, focusing on meaningful, collaborative partnership
- Number of inbound/outbound student exchanges: Facilitate **at least 50 student exchanges annually**, with balanced inbound and outbound participation to foster global exposure
- Joint projects led by Indigenous partners : Launch **a minimum of 5 joint initiatives** annually with Indigenous leadership or significant collaboration
- Funding secured for Indigenous programs : Secure **₹1 crore (or equivalent)** annually in dedicated funding for Indigenous-focused initiatives
- Proportion of international students: Increase international student enrolment to **5% of total enrolment by 2026**, supported by targeted recruitment and support services

6. Entrepreneurship & Innovation Ecosystem:

Objectives

- **Strengthen Start-up Development and Entrepreneurial Engagement:** Cultivate start-up development and incubation by engaging students in entrepreneurial activities and promoting intellectual property creation.
- **Enhance Funding and Infrastructure for Innovation:** Secure external investments and funding while optimizing incubation infrastructure to drive entrepreneurial skills development and research commercialization.

Metrics and Targets:

- Number of start-ups incubated annually: Incubate a minimum of **10 start-ups annually**, with structured mentorship and business development support
- Value of external seed funding raised: Facilitate the raising of **₹2 crore or more in external funding annually** through industry partnerships, investor connects, and grant facilitation
- Number of patents filed or licensed: File **at least 15 patents per year** and license a **minimum of 3** for commercial use
- Student participation in entrepreneurship initiatives : Ensure **a minimum of 500 students annually** engage in entrepreneurship-related activities across all departments
- Incubator occupancy/utilization rate: Maintain an incubator occupancy/utilization rate of **80% or higher**, with periodic reviews to optimize resource allocation and support services

7. Community Engagement & Social Impact:

Objectives:

- **Strengthen Community Engagement and Partnerships:** Develop sustainable community partnerships and strengthen relationships to maximize meaningful community service contributions.
- **Integrate Service-Learning and Measure Social Impact:** Integrate service-learning across curricula to achieve measurable social impact and deliver tangible social contributions.

Metrics and Targets:

- Total community service hours contributed: Contribute **at least 10,000 community service hours** per academic year through NSS, outreach programs, and service initiatives
- Number of active community-engagement projects: Maintain **at least 20 active projects annually**, with measurable social outcomes and student involvement
- Third-party social impact assessment score: Achieve a **minimum rating of 80%** or equivalent on external social impact assessments conducted every 2–3 years
- Percentage of courses with service-learning components: Integrate service-learning elements into **at least 25% of courses** by 2026, promoting experiential and socially responsible education

8. Stakeholder Engagement Strategies:

Objectives:

- **Enhance Stakeholder Engagement and Satisfaction:** Expand engagement opportunities and optimize responsiveness to ensure stakeholder needs and expectations are effectively met.
- **Promote Transparency and Effective Communication:** Ensure transparent reporting and maintain open, clear communication channels with all stakeholders.

Metrics and Targets:

- Stakeholder satisfaction index: Maintain an overall satisfaction score of **85% or higher**, with actionable feedback loops established for continuous improvement
- Number of engagement events held annually: Conduct **at least 25 stakeholder engagement events** per year across various stakeholder groups.
- Average response time to stakeholder inquiries: Maintain an average response time of **3 working days or less**, with a maximum resolution time of **7 days** for standard queries.
- Compliance rate with public reporting schedule: Ensure **100% compliance** with the public reporting and disclosure schedule as per statutory and institutional guidelines

9. Advanced / Enhanced R&D Initiatives

Objectives:

- **Enhance Research Excellence and Collaboration:** Promote high-impact, interdisciplinary research by elevating scholarly output quality and expanding interdisciplinary collaboration.
- **Strengthen Funding and Industry Partnerships:** Strengthen competitive funding capacity and deepen industry partnerships to maximize research influence and innovation.

Metrics and Targets:

- External research funding secured per faculty member: Achieve a minimum of **₹3 lakhs per faculty member per year** in external research funding by 2026.
- Publications in top-quartile journals: Ensure that **at least 40% of total publications** annually are in Q1 journals
- Field-weighted citation impact: Maintain a **Field-Weighted Citation Impact of 1.5 or higher**, indicating that research output is cited 50% more than the global average
- Number of interdisciplinary research projects: Initiate and support **at least 15 interdisciplinary projects annually**, promoting cross-domain innovation
- Value of industry-funded research contracts: Secure **₹2 crores or more annually** through industry collaborations, with a focus on applied research and commercialization potential

10. Transparent & Responsive Governance:

Objectives

- **Strengthen Governance and Accountability:** Strengthen active governance participation and uphold accountable, ethical, and data-driven leadership and decision-making.
- **Enhance Compliance and Policy Management:** Ensure timely resolution of audit recommendations and maintain rigorous policy management.

Metrics and targets:

- Percentage of audit findings resolved on schedule: Ensure **95% or more of audit findings** are resolved on or before the designated deadline each year.
- Adherence rate to policy review cycles: Maintain **100% adherence** to all scheduled policy reviews, ensuring institutional policies remain current and compliant
- Governance meeting attendance rate: Maintain a **minimum attendance rate of 90%**, reinforcing commitment to active and effective governance
- Timeliness of publishing meeting minutes: Publish and circulate **all meeting minutes within 7 working days** post-meeting to ensure transparency and accountability
- Stakeholder trust/confidence index: Achieve and sustain a **trust/confidence index score of 85% or above**, reflecting positive stakeholder sentiment and institutional credibility

Planning and Evaluation Committee

S.No.	Name of the Member	Position
1.	Dr. JVR Ravindra Principal and Professor of ECE	Chairman
2.	Dr. E. R. Aruna Dean (IQAC) and Associate Professor of CSE	Convener
3.	Dr. H. Venkateswara Reddy Dean (Examination & Evaluation) and Professor of CSE	Member

S.No.	Name of the Member	Position
4.	Dr. J. Krishna Chaitanya Dean (R & D) and Associate Professor of ECE	Member
5.	Dr. S. Rajendar Dean (Academics) and Professor of ECE	Member
6.	Dr. M. A. Jabbar HOD and Professor of CSE(AI&ML)	Member
7.	Mr. Vivek Kulkarni Dean (Faculty Welfare) and Associate Professor of IT	Member
8.	Dr. GAE Satish Kumar Dean (Accreditation) and Professor of ECE	Member
9.	Dr. Md. Asif Dean (Student Affairs) and Associate Professor of EEE	Member
10.	Dr. Sukanya Metta HOD and Professor of MBA	Member
11.	Dr. Shanthi Makka Professor of CSE	Member

Functions & Responsibilities:

- To design and implement a strategic roadmap for the holistic development and long-term growth of the institute ensuring alignment with institutional objectives and national educational priorities.
- To conduct periodic assessments of strategic plan execution to identify gaps and propose targeted interventions to achieve institutional goals effectively.
- To oversee the implementation of decisions by the Board of Management to ensure timely execution while planning for evolving academic and infrastructural needs.
- To envision and develop perspective plans to foster sustainable growth, innovation and global competitiveness of the college.
- To recommend initiatives for enhancing the quality of education including curriculum, faculty development and accreditation compliance.
- To promote research, interdisciplinary collaborations and industry partnerships to strengthen academic excellence and employability outcomes.
- To develop community outreach and extension programs to enhance social impact and institutional visibility.
- To strengthen alumni engagement through institutional networking, knowledge-sharing, and funding opportunities for academic initiatives.



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