VISHNU INSTITUTE OF TECHNOLOGY

(Autonomous)

VISHNU
UNIVERSAL LEARNING

Vishnupur, Bhimavaram,
West Godavari District,
Andhra Pradesh-534202

INSTITUTIONAL STRATEGIC PLAN

2024-2034

NAAC Accreditation | NBA Accreditation | JNTU Kakinada | AICTE

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Part – A : Institutional Profile

Dr. B.V. Raju, a visionary who believed in the transformative power of education, founded Dr. B.V. Raju Foundation and Sri Vishnu Educational Society (SVES) with the aim of empowering students and transforming lives. His vision continues to inspire and guide the organization under the leadership of his grandson, Sri K.V. Vishnu Raju, the current Chairman of SVES. The Chairman is supported by a dedicated Governing Body comprising individuals distinguished in their respective fields, committed to advancing education.

SVES oversees a diverse portfolio of institutions across engineering, pharmacy, dental, and life sciences disciplines, with campuses spread across Andhra Pradesh and Telangana. A key initiative under SVES is the **Vishnu Educational Development and Innovation Center (VEDIC)**, a unique training institute focused on the holistic development of students and faculty.

Vishnu Institute of Technology (VITB)

Vishnu Institute of Technology, Bhimavaram (VITB), was established in 2008 under the aegis of Sri Vishnu Educational Society. With a mission to deliver high-quality technical education and foster social transformation, VITB has grown into a premier institution. The institute achieved autonomous status from the academic year 2019-20 and is accredited by the **National Board of Accreditation (NBA)** and **National Assessment and Accreditation Council (NAAC)** with an 'A+' grade.

Aligned with the National Education Policy 2020, the **Institutional Development Plan (IDP)** provides a strategic roadmap to elevate VITB into a center of academic excellence, innovation, and societal impact.

Academic Programs and Campus

VITB is affiliated to **JNTUK, Kakinada** and operates from a sprawling 100-acre green campus in Bhimavaram. The institution offers a variety of undergraduate, postgraduate, and Ph.D. programs in engineering disciplines, including:

- Computer Science and Engineering
- Information Technology
- Artificial Intelligence and Data Science
- Artificial Intelligence and Machine Learning

- Computer Science and Business Systems
- Electrical and Electronics Engineering
- Electronics and Communication Engineering
- Civil Engineering
- Mechanical Engineering

With cutting-edge infrastructure and specialized research centers, VITB is committed to nurturing graduates who are both technically proficient and socially responsible.

Pedagogical Approach: Teaching, Learning, and Evaluation

VITB follows an **Outcome-Based Education (OBE)** framework to ensure students acquire the competencies needed for industry and societal success. The curriculum emphasizes experiential and problem-based learning, incorporating the latest technological trends. To bridge the gap between academics and industry, the institute facilitates:

- Internships, live projects, and industrial collaborations
- Continuous assessments and feedback-based evaluations
- Industry-specific curriculum updates through stakeholder consultations

The institute's **Industry Relations Office** operates across Hyderabad, Chennai, Bengaluru, Pune, and Vadodara to maintain strong ties with various industries. These offices coordinate placements, internships, R&D collaborations, and academic-industry interactions. VITB actively participates in prominent industry bodies, ensuring it remains a leader in industry partnerships. The institute has signed numerous **MoUs** with academic institutions including Central Michigan University, University of Massachusetts, Community College of Philadelphia, Purdue University, Northern Illinois University, IEG, GC German Center for Engineering and Management Studies UG Aachen, European Center for Mechatronics APS GmbH Aachen, and University of Bolton. These partnerships consistently position VITB at the forefront in securing placements with leading MNCs such as Palo Alto, Intuit, Amazon, Flipkart, Adobe, Caterpillar, ZOHO, John Deere, Providence, American Express, and more. The MoUs with Academia, IT and core sector companies, supporting curriculum design, faculty development, and certification programs for students.

Unique Curriculum Features

- Open Electives
- Pre-Electives
- Self-Paced Learning Courses
- Value-Added Courses
- Internship Support
- Bridge and Remedial Courses for Slow Learners

Student Development and Support

The library at VITB serves as an intellectual hub, offering a vast collection of books, journals, and online resources to meet the needs of students and faculty. The institute encourages students to join professional bodies such as **ISTE, SAE, IETE and IET** to foster research and innovation. Economically disadvantaged students are supported with:

- Fee waivers and financial assistance
- "Earn While You Learn" programs
- Sponsorships to participate in conferences and seminars at state/national levels

VITB is proud of its uniqueness in many ways. To mention a few:

- Radio Vishnu 90.4, the only college in Andhra Prdesh state to have FM Radio
- Advanced Robotics Control Lab
- Drones Center of Excellence
- National Instruments Lab
- Alternate Energy Solutions
- Vehicle Design Lab

- Internet of Things (IoT) Lab
- AR/VR Lab
- Technology Business Incubation (TBI)

VITB provides around 1200 capacity of A/C auditorium, Open air auditorium, electricity power backup, computing facilities, RO Plant, water sewage treatment plant, hostels, book store, Bank, post office, photo studio, tailoring shop, car driving institute, ATMs, beauty parlour, convenience store and temples, boat club, swimming pool, TV Academy, Music Club etc. Recreation through mental and physical fitness along with well-equipped gymnasium and dedicated Psychology department with qualified staff provide recreation through mental and physical fitness.

The Vishnu Student Success Centre supports and empowers its students in all aspects of their academic and personal pursuit of knowledge. The centre offers extensive resources and services aimed at improving and advancing student learning, development, and successes. We therefore foster a supportive environment that can help every student succeed and realize their full potential.

Part B: Institutional SWOC / SWOT Analysis

Strengths

- ✓ *Reputation and Legacy:* The SVES society has established a strong legacy, especially in education sector, with a focus on engineering and technical fields.
- ✓ *Visionary Management:* Proactive leadership ensures transparent governance and strives for continuous quality improvement.
- ✓ *Accreditation and Recognition*: Accredited by NAAC and NBA, reflecting the delivery of high-quality education.
- ✓ *Faculty*: Committed and well-qualified faculty, some with industry backgrounds, ensure excellent teaching and research output.
- ✓ *Hostel Facilities*: Well-maintained hostels provide accommodation for 75% of the student body, ensuring a comfortable residential experience.
- ✓ *Modern Infrastructure*: State-of-the-art laboratories, smart classrooms, and well-equipped residential facilities enhance the learning environment.
- ✓ *Entrepreneurship and Innovation*: Active participation in entrepreneurial initiatives, with incentives to encourage research and innovation.
- ✓ *Cutting-Edge Curriculum*: Industry-aligned programs, internships, and placement opportunities prepare students for the job market.
- ✓ *Strong Industry Linkages*: Collaborations with leading companies provide internships, projects, and placement opportunities through an industry liaison framework.
- ✓ *VEDIC Learning Center*: An interdisciplinary think tank for faculty and student development, promoting innovation, collaboration, and academic leadership.
- ✓ *Student Support Systems*: Comprehensive student support includes mentoring programs, active student clubs, professional body memberships, and psychological counseling services.

- ✓ *Sports Facilities*: A wide range of sports infrastructure is available, including squash, kayaking, and swimming pools, promoting physical well-being.

Weaknesses

- ✓ *Limited Sponsored Research*: The institution has few consultancy and sponsored research projects.
- ✓ *Faculty Development*: Faculty skilling needs improvement to align with emerging industry trends.
- ✓ *Research Output*: Low publication rates and limited patents highlight the need for greater research engagement.
- ✓ *Global Exposure*: Limited international collaborations and student exchange programs restrict global learning opportunities.
- ✓ *Alumni Engagement*: Alumni networks are underutilized for mentoring, funding, and industry connections.
- ✓ *Geographic Diversity*: Most students are from the local region, limiting diversity in the student body.
- ✓ *Affiliating University Regulations*: The affiliating university's rules restrict the flexibility to introduce more industry-relevant curricula.
- ✓ *Higher Education*: A relatively small percentage of graduates pursue advanced degrees.
- ✓ *Reading Habits*: Weak reading habits among students affect their academic performance, critical thinking, and research abilities.

Opportunities

- ✓ *Global Collaborations*: Establish partnerships with international universities to offer student exchange programs and joint research.
- ✓ *Interdisciplinary Programs*: Launch new programs in emerging areas such as Artificial Intelligence, Data Science, and Machine Learning.
- ✓ *Online Learning*: Expand reach through online courses, MOOCs, and distance education platforms.
- ✓ *Industry Collaboration*: Enhance research, internships, and skill development programs through partnerships with industry.
- ✓ *Entrepreneurship and Incubation*: Establish incubation centers and startup ecosystems to foster entrepreneurship among students.
- ✓ *International Accreditation*: Pursue international accreditations to gain global recognition and attract international students.

- ✓ *Alumni Involvement*: Strengthen alumni engagement to leverage mentorship, funding, and industry connections for institutional growth.
- ✓ *Professional Body Engagement*: Increase activities under professional chapters (CSI, ISTE, IEEE, IE) and promote access to premium online journals.
- ✓ *New PG Programs*: Introduce postgraduate programs in emerging and interdisciplinary fields to attract a broader student base.
- ✓ *Collaborations with Premier Institutions*: Develop partnerships with foreign and top-tier institutions for advanced research and academic exchange.
- ✓ *Diversity*: Attract international faculty and students to create a multicultural learning environment.

Challenges

- ✓ *Faculty Recruitment*: Attracting and retaining skilled faculty in high-demand areas like AI and Data Science remains a challenge.
- ✓ *Student Employability*: Enhancing communication skills and employability of students requires continuous focus.
- ✓ *Regulatory Compliance*: Adapting to frequent changes in guidelines from UGC, AICTE, and other regulatory bodies.
- ✓ *Technological Advancements*: Rapid technological changes require constant updates to the curriculum, infrastructure, and faculty skills.
- ✓ *Funding Constraints*: Limited funding sources necessitate the diversification of revenue streams to ensure sustainable growth.
- ✓ *R*etention of Talent: Competing with other institutions to attract and retain top faculty amid competitive offers.

Part – C : Vision, Mission and Strategic Goals

Vision

To empower the students through Academic excellence and Ethics so as to bring about social transformation and prosperity.

Mission

- ✓ To expand the frontiers of knowledge through quality education.
- ✓ To provide value added Research and development.
- ✓ To embody a spirit of excellence in Teaching, Creativity, Entrepreneurship and Outreach.
- ✓ To provide a platform for synergy of Academy, Industry and Community.
- ✓ To inculcate high standards of Ethical and Professional behavior.

Strategic Statement and goals

To achieve its vision, VITB aims to develop as a hub of innovation and creativity, emphasizing interdisciplinary research, industry collaboration, and global partnerships. The institution will implement strategies that focus on faculty development, curriculum enhancement, financial independence, and community engagement

- ✓ Deliver increasingly high-quality and innovative educational experiences for all students.
- ✓ Provide ample employment and higher education opportunities for students.
- ✓ Recruit, nurture, and retain outstanding faculty and staff.
- ✓ Foster a strong culture of research among students and faculty.
- ✓ Promote community development and advocate for eco-friendly practices.

- ✓ Develop VITB as a hub of innovation and creativity, focusing on:
  - Interdisciplinary Research
  - Industry Collaboration
  - Global Partnerships
- ✓ Implement strategies to ensure:
  - Faculty Development
  - Curriculum Enhancement
  - Financial Independence
  - Community Engagement

Part –D: Strategic Plan Action (Short Term 2 Years, Medium Term 5 Years and Long Terms 10 Years)

Strategic Approach Adopted

VITB adopts a phased development strategy focusing on short-term, medium-term, and long-term goals across key enablers like governance, academic growth, infrastructure development, and financial sustainability.

Enabler : Governance Enablers

Components	Short term	Medium term	Long term
• Institutional Structure (GB, AC, FC etc.) • Quality Assurance • Autonomy • External Advisory Board • Stakeholder inclusion • Financial Independence • Alignment with Society • Leadership & Strategy	• Conduct Governing Body and Academic Council, FC meetings biannually. • Conduct Internal Quality Assurance Cell (IQAC) periodic meetings to review the academic and administrative processes & outcomes to take appropriate measures. • Conduct BOS, DAB and DAC Meetings to enhance the academic processes. • Generate external revenues through projects and consultancies • Identifying and resolving the local societal problems. • Creating Digital Leader Board to monitor the daily activities.	• Strengthen institutional autonomy and stakeholder inclusion. • To update and upgrade the academic processes as per the industry and societal requirements. • To generate external revenue through alumni contributions and Corporate Social Responsibilities (CSR) initiatives. • To utilize Digital Leader Board for strategic decision making.	• Continuous leadership development and strategy refinement. • Maintain and enhance quality assurance initiatives to sustain institutional excellence. • Ensure long-term alignment with societal needs.

Enabler : Financial Enablers

Components	Short term	Medium term	Long term
• Budget Allocation • Fund Generation Strategy • Financial Sustainability • Stakeholder Engagement	• Elicit requirements from all academic units for budget planning. • Mobilize funds from government bodies. • Generate external revenues through projects and consultancy works.	• Strengthen collaboration and stakeholder engagement for consistent fund generation. • To generate external revenue through alumni contributions and Corporate Social Responsibilities (CSR) initiatives.	• Achieve financial independence through robust budget allocation and strategic investments. • Royalty through IPR. • Establish long-term financial sustainability.

Enabler : Academic Enablers

Components	Short term	Medium term	Long term
• Curriculum Design/ Upgradation • Technology Adoption • Project-Based Learning • Training in Thrust areas • Co-curricular /Extra-curricular Activities	• Implement UGC norms related to NEP 2020, including Multi-Entry Multi-Exit and Honor/Minor degree programs. • Revise curricula across all programs with defined outcomes and objectives. • Adopt experiential, problem-based, and project-based learning methods using ICT. • Implement skill-based value-added courses in each semester. • Invite industry experts and professionals for lectures. • To facilitate the holistic development of students through the activities of student success center. • Increase collaborations with industry, research organizations, and academic institutions. • Strengthen labs and workshops with the latest equipment and software.	• Expand and enhance academic offerings with increased industry collaboration. • Further integrate technology and experiential learning methodologies. • Industrial training to faculty members.	• Sustain innovation in curriculum design and academic processes. • Ensure academic programs to meet global standards and industry needs. • Adopt Choice-based Credit System.

Enabler : Research, Intellectual Property and Supportive Enablers

Components	Short term	Medium term	Long term
• Innovation activities (IIC) • Faculty industry connect • Collaboration with Academia • Monetizing Research Outcomes • Funded Research Projects & Consultancy • Training Programs & Workshops • Mentorship Support for Startups • Cultivate Entrepreneurial Culture • Licensing & Technology Transfer • Recognition & Awards	• Promote innovation activities through the Institution's Innovation Council (IIC). • Establish strong academia-industry collaborations • Identify and entrust suitable faculty based on their thrust areas for sponsored project proposals. • Identify and allocate suitable faculty department-wise to collaborate with industry/academia for consultancy projects. • Establish industry-sponsored research-oriented lab facilities. • Conducting awareness programs/workshops to promote IPR and start-up culture, professional development amongst the students & faculty.	• Focus on monetizing research outcomes and securing funded research projects. • Develop comprehensive mentorship support for startups and foster an entrepreneurial culture. • Technology transfer of patents from Publication to Grants. Commercialization of patents.	• Achieve significant technology transfer, licensing, and recognition through research and innovation. • Sustain a culture of innovation and entrepreneurship. • Sustain commercialization of patents.

Enabler : Human Resources Management Enablers

Components	Short term	Medium term	Long term
Faculty			
• Recruitment & Selection • Faculty Orientation & Development • Faculty Evaluation & Compensation • Faculty Diversity & Inclusion • Faculty Industry connect • Professional Development • Faculty Well Being	• Recruit faculty members to cater to the emerging needs. • Recruit Ph.D. holders to reach 35% doctoral faculty and motivate existing faculty to pursue Ph.D. • Provide orientation and professional development for faculty. • Establish robust faculty evaluation and compensation systems. • Inclusion of more number of Faculty members as Professor-of-Practice based on the current needs.	• Continue faculty recruitment across all academic disciplines and also take into consideration the representation of diverse groups. • Recruit Ph.D. holders to reach 45% doctoral faculty and motivate existing faculty to pursue Ph.D. • Establish long-term partnerships with the industry to encourage faculty sabbaticals and industrial training to keep up with the latest advancements. • Develop specialized faculty development programs focused on emerging research areas, pedagogy, and interdisciplinary collaboration. • Implement comprehensive wellness programs, including mental health support, to improve overall faculty well-being and retention.	• Establish a global faculty exchange program to attract and retain top academic talent from around the world, enhancing the institution's reputation. • Recruit Ph.D. holders to reach 60% doctoral faculty. • Create a leadership pipeline by identifying and nurturing potential academic leaders within the faculty, ensuring long-term sustainability of leadership roles. • Regularly review and update policies to reflect the latest in flexible work arrangements, ensuring they meet the evolving needs of faculty.

Students			
• Career & Skill Development • Scholarship & Financial aid • Student Mentoring • Student exchange Programs • Student Well Being • Alumni Connect	• Establish collaborations with institutes of national and international repute for student exchange. • Strengthen the quality of student mentoring process by enhancing the faculty count. • Awards to be given based on performance and achievements as a token of recognition. • Provision of Scholarship or financial support as stipend to the deserving candidates to increase PG admission. • Conducting skill-oriented training programs for core sector jobs.	• Broaden the scope and scale of student exchange programs by establishing partnerships with more international institutions, allowing for diverse global exposure. • Introduce advanced skill development programs aligned with future industry demands, integrating cutting-edge technologies and methodologies. • Increase the availability of scholarships and financial aid to attract top talent, particularly in underrepresented fields, and expand financial support for postgraduate studies.	• Achieve global recognition for student exchange programs by establishing a strong presence in international academic networks, facilitating seamless mobility of students worldwide. • Sustain long-term career development through career development center (CDC) that offers continuous support to students by helping them adapt to evolving career landscapes. • Create a lifetime engagement model with alumni, fostering a community that supports each other professionally and academically, ensuring the institution's legacy and reputation.

Enabler : Networking and Collaboration Enablers

Components	Short term	Medium term	Long term
• Faculty industry connect • Alumni Connect • MoUs	• Establish regular networking events and guest talks with industry professionals to keep faculty updated on current trends and needs. • Encourage faculty to join professional bodies. • Initiate partnerships with industries and institutions to enhance resources and collaborative opportunities. • Use social media platforms to keep alumni engaged with college events, news, and opportunities.	• Strengthen alumni networks with regional chapters to offer career support, mentorship, and funding. • Develop a strong student mentoring framework with alumni and industry experts. • Evaluate the outcomes of MoUs and gather feedback to refine and enhance future agreements.	• Establish industry-academic advisory board to continuously align faculty research and teaching with industry advancements and future trends. • To enter into MoUs with institutions of repute worldwide, facilitating exchange programs, collaborative innovation and large-scale projects.

Enabler : Physical Enablers

Components	Short term	Medium term	Long term
• Facility Integration • Preservation of Essence • Environmental Responsibility • Inclusivity & Safety • Safety & Risk Management • Resource Management	• Develop interdisciplinary approach in academics to utilize the facilities across multiple disciplines. • To adopt green campus strategy initiatives (like STP treatment system, zero liquid discharge practices, solar power generation capacity and renewable energy sources). • Expand initiatives to promote and support the use of battery-powered vehicles and bicycles across the campus. • Upgrade fire safety facilities integrated with latest technology.	• Develop and launch specialized programs and research centers that focus on emerging interdisciplinary fields. • Implement advanced sustainable practices such as green roofs, energy-efficient building upgrades, and campus-wide waste reduction programs. • Increase solar power capacity and introduce additional renewable energy sources. • Invest in and implement advanced fire safety technologies, including smart detection systems and improved emergency response protocols, to ensure safety and compliance.	• Create a fully sustainable campus with zero carbon emissions, using green architecture, regenerative practices, and integrated renewable energy and resource conservation. • Achieve near-total campus energy self-sufficiency through a diversified portfolio of renewable energy sources, with a focus on innovation and resilience.

Enabler : Digital Enablers

Components	Short term	Medium term	Long term
• Digital Transformation & Implementation • Video documentation of courses • Data Management • Teaching and Monitoring	• To convert 50% of class rooms as smart classrooms. • Strengthen digital infrastructure in labs and workshops with the latest technology. • Prepare video content for 50% of courses. • Integration of AI, AR & VR technologies in content preparation. • Implement Vishnu Learning LMS and Vishnu Placements LMS for better digital management and learning. • Strengthen the facilities in the labs/workshops with latest equipment and software to provide skill-based training in AI & ML. • Extend the availability of digital facilities for students' access to address the digital divide.	• To convert 100% of class rooms as smart classrooms. • Prepare video content for 100% of courses using advanced technologies. • Build advanced digital infrastructure with top-tier connectivity, data management and tools. • Collaborate with tech companies to keep systems updated and ahead of technological trends.	• To upgrade the labs and workshops to international standards. • Create a scalable digital system compatible with future technologies.

Conclusion

The Institutional Development Plan of Vishnu Institute of Technology is designed to propel the institution towards academic excellence, innovation, and financial sustainability. By fostering a collaborative environment between academia and industry, VITB will achieve its long-term vision of becoming a leading institution in technical education.