VISWAM ENGINEERING COLLEGE

(Formerly Sir Vishveshwaraiah Institute of Science & Technology)

Madanapalle – 517 325

STRATEGIC & PERSPECTIVE PLAN

2020-2025

STRATEGIC PLAN: 2020-2025

About the Institution:

A skilled administrator and philanthropist named Sri M. Prabhakar Reddy established Sir Vishveshwaraiah Institute of Science and Technology in 2006 with the goal of empowering local rural students through education and employment. The Institute's name is changed to Viswam Engineering College (VEC) in the year 2021. The institution has excellent connections to the nearby villages and districts and is situated in the heart of Madanapalle.

The largest tomato market in Asia is in Madanapalle. Among other agricultural products, Madanapalle is well known for its tomatoes, mangos, groundnuts, and tamarind. Rabindranath Tagore adapted the national anthem from Bengali to English and put it to music in Madanapalle. The Rishi Valley School, which uses a cutting-edge multi-grade teaching method and a holistic approach to education, is situated in Madanapalle. The Institution is affiliated to Jawaharlal Nehru Technological University Anantapur, Anantapur. With 237 founding students across four programs, the institution was established. The college currently has over 1200 students enrolled across its 11 programs. Since its founding, the Institution has grown in many different ways and reached many landmarks. The College enjoys an excellent social standing and reputation in the state of Andhra Pradesh. VEC is one of the most coveted educational institutions in the Annamayya district.

The institute upholds strict academic standards by offering a wide range of infrastructure and academic facilities. The Institution is well known for its charitable endeavors in addition to its regular academic pursuits. The college attracts a large number of students from various parts of Andhra Pradesh. The institution received a number of awards and commendations for providing affordable, high-quality education in cities like Madanapalle. The institution's chairman renders services to numerous governmental and non-governmental organizations through philanthropic activities.

Vision:

To be a center of excellence for engineering and management education, research, and knowledge application for the good of society with a blend of moral principles and a global perspective.

Mission:

M1: To promote engineering research and development while offering top-notch education in the field.

M2: To foster entrepreneurship and the development of new, cutting-edge technological applications.

M3: To develop the students into strong, socially responsible leaders.

Objectives of the Institution:

The objectives of the Institution are to

- Offer UG and PG Programmes in the emerging areas of Engineering and Technology, Management.
- Produce technically competent engineers.
- Develop conducive environment for students and faculty members for academic and research purposes.
- Promote research culture in the institution
- Develop centers of excellence in all engineering disciplines offered by the institution.
- Strengthen industry institute interaction
- Develop and implement a comprehensive Human Resources plan
- To frame the Quality Policy for the academics and research
- To identify the best practices in the institution and to subsequently add more best practices
- To formulate various committees for effective functioning
- To conduct Periodic audits for academics and administration

Quality Policy:

Viswam is committed to provide quality education through dedicated and Best in talented faculty, Best in class infrastructure, Labs and updated research center to the students.

Core Values:

- Contribution to National Development
- Fostering Global Competencies
- Inculcating Value System in Students
- Promoting the Use of Technology
- Quest for Excellence

Strategic Plan:

The Strategic Plan is prepared to achieve the objectives and Vision of the Institution over a period of five years and to develop the institution as one of the best industry linked and research institution with national and international recognition. The core areas of focus by the institution include – Artificial Intelligence, Cybersecurity, Cloud based systems, Electric Vehicles, Robotics and Automation, Industrial IoT, Digital Manufacturing, Drones, Wireless Communication and Wearable Devices. The Strategic plan of the institution for Academics, Research & Innovation, Industry interaction, Alumni Engagement, Institutional and Social Responsibilities are presented below.

1. Academics

Viswam Engineering College, affiliated with JNTUA, has remained at the forefront of nurturing future engineering professionals with its unwavering dedication to excellence and commitment to quality education. Guided by a highly experienced and competent faculty, the college consistently fosters an environment conducive to innovation, creativity, and holistic development. At Viswam Engineering College, we firmly believe in equipping our students with the knowledge, skills, and values necessary to thrive in a rapidly evolving world. Offering 7 undergraduate and 4 postgraduate programs in engineering, as well as 1 postgraduate program in management, ensures that students receive a well-rounded education in their chosen disciplines.

Plan of Action:

- To enhance experiential learning, participative learning and project-based learning through laboratory, internship and project-oriented courses in addition to the regular classroom learning.
- To encourage the student to take up online courses through NPTEL
- To offer industry driven courses for skill development (upskilling)
- To get NAAC Accreditation by 2023
- To get accredited by National Board of Accreditation (NBA) at least by 2025

Target to be achieved:

- Mini projects, Projects and Internships are mandatory
- To have more than 30% students' participation in Hackathons and other events in large scale.
- Classical teaching methodology to Outcome Based Education (OBE)
- To achieve the NBA accreditation to 50 % programs offered by the institution.

2. Research & Innovation

Viswam Engineering College has research policy in place for the Research & Development and Innovation. Also, Institution's Innovation Council (IIC) is established in the Institution to systematically foster the culture of Innovation. Support is provided in the institution for Visiting industries, Presenting Papers in International conferences and symposiums, seed money for research, higher studies of faculty and nonteaching staff members, organizing workshops/seminars/conferences, and training of faculty members for research proposal writing and consultancy services.

Plan of Action:

- Develop infrastructure for carrying out R & D activities.

- Faculty members to publish papers in journals listed in SCI/SCIE/Web of Science Scopus and UGC CARE Journals.
- Utilize the seed money to strengthen the research and innovation activities.
- Research Committee to disseminate the details of call for proposals from various funding agencies for the faculty members to submit proposals for funding.
- To attract good research scholars
- Every department to conduct one international conference per year in association with Professional Societies of the respective discipline.

Target to be achieved:
- At least 40% of faculty to be with Ph.D.
- To have 2 publications per faculty per year in the Journals (SCI /Scopus/WoS)
- To increase the number of Books, book chapters, monographs etc to be published by the faculty members by 20%
- Faculty members and Students to participate in Hackathons through IIC.

3. Industry interaction

Representatives from industries and research institutions are cordially invited to deliver enlightening guest lectures and expert talks on emerging areas. These engaging sessions will provide students and faculty with invaluable insights into the latest trends, advancements, and practical applications within their respective fields. Through these interactive engagements, our objective is to establish a strong connection between academia and industry, promoting the assimilation of industry-relevant knowledge, while fostering a culture of perpetual learning and innovation throughout the engineering college. These distinguished guest lectures and expert talks will serve as an exceptional platform for students and faculty to gain exposure to cutting-edge industry practices, cultivate professional networks, and remain abreast of the forefront developments in their specific domains of study.

Plan of Action:
- To offer value added courses. Certificate courses to the students through industry associations and other approved agencies.
- To sign MoUs with industries

Target to be achieved:
- To offer industry-based projects (20-30%) in all Programmes
- To increase the number of consultancies and revenue through consultancy by 20%.
- To increase the number of faculty members involved in industry sponsored research and consultancy assignments (20 to 30% of faculty members).

4. Alumni Engagement

Viswam Engineering College has registered Alumni Association with more than 850 Alumni members. The Alumni members are engaged with the Institution in different modes as members in various bodies, during conduction of meetings and other such forums across the departments. Initiatives are taken to increase the presence of alumni in the campus. Alumni are encouraged to support the activities of Viswam Engineering College through interactions with faculty and students, by providing financial assistance to needy students etc.

Plan of Action:

- To have a forum in website for alumni to login and discuss with peers through the forum.
- To conduct annual Alumni conclave in the Institution.
- To conduct regular meetings of all the Alumni chapters
- To facilitate curriculum development and research activities through alumni engagement

Target to be achieved:

- To create a digital forum to facilitate interaction with the Alumni, to post the opportunities for the Alumni and also opportunities for the students by the alumni.
- To promote and support start-ups through alumni connect.

5. Institutional and Social Responsibilities

The Institutional Social Responsibility lies in promoting Clean India Mission, Digital India, Smart City and other initiatives of the Government through technology transfer and producing skilled engineers.

Plan of Action:

- To produce skilled graduates.
- To mould the students into individuals who care for the society and fellow human beings.
- To increase the number of outreach activities through NSS, YOGA and other clubs
- To support Women empowerment through WEC and other forums
- To have Technology development and transfer to the society along with digital literacy to the public

Target to be achieved:

- To implement community development initiatives through Unnat Bharat Abhiyan (UBA)
- To conduct digital literacy other awareness programmes like road safety, fire safety, awareness on health and hygiene, etc.
- To conduct programmes for school children in promoting the science and technology
- To promote and support startups by aligning the future generation towards Make in India and Digital India initiatives.

Review Mechanisms:

Plan of action is made in the beginning of every academic year by all the departments and the Institution for inclusive growth. Periodical reviews and audits are conducted to monitor the

activities conducted to achieve the goals. The Governing body and IQAC periodically review the plan of action and target achieved, give suggestions for the continuous improvement and communicate the information to relevant stakeholders for implementation.

PERSPECTIVE PLAN: 2020-2025

1. National Assessment and Accreditation Council (NAAC)

- To get NAAC Accreditation with A+ for the Institution.

2. National Board of Accreditation

- To get NBA Accreditation for all the courses

3. AICTE-IIC

- Aim to achieve 3-star and above rating from AICTE-IIC

3.NIRF Ranking

- To enhance the quality of research publications by motivating the faculty members to publish in SCI/SCIE/SCOPUS etc. indexed journals.
- Apply for more patents
- Focus on obtaining external funded research projects.
- To enter in the NIRF ranking in the band of 151-200.

4. ARIIA Ranking

- To enhance the activities related to innovation and entrepreneurship.
- Collaboration with industry for research and innovative projects
- To target consultancy work from industries and start-up
- To enter into excellent band in ARIIA ranking.

5. Autonomous status of the Institution

- To obtain permanent affiliation for the institution
- To obtain autonomous status of the institution

6. Financial Sustainability of the Institution

- Increase in intake and new courses
- Targeting for 2500+ students in the campus
- Revenue from Industry consultancy & sponsored projects.

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