

# **STRATEGIC PLAN & DEPLOYMENT**



# **2021-2030**

## **PREFACE**

Strategic Planning of the institution plays a vital role in successful accomplishment of the Vision and Mission of the institution in a stipulated time frame.

Strategic planning is initiated with specific emphasis on accomplishing institutional goals in a highly competitive world. The basic strength of strategic planning is its ability to help align the organization with its environment.

Strategic Planning and Deployment (SPD) document is formulated based on analysis of present challenges and future opportunities and it envisions the direction towards which the institution should move to achieve its set goals and objectives. In a nutshell, the strategic plan sets our top priorities for the next 10 years. Short term goals are set for the first 5 years and long term goals for next 5 years.

Our core goals are:

1. Research and Development
2. Teaching and Digital Learning (TDL)
3. Industry Institute Interaction and Innovations(I<sup>4</sup>)
4. Training and Placements(TAP)
5. Skill Development and Entrepreneurship
6. Human Resource Development
7. Collaborations
8. Social Responsibility and Integrity(SRI),
9. Industry Readiness (E2.0 to I4.0)

Stake Holders of the organization respect institutional core values and involve in planning, innovation, incubation, industry connect, civic engagement and global influence.

The first part of SPD elucidates the vision, mission and core values of the institution along with short term & long term goals. The SWOC (Strengths, Weaknesses, Opportunities, and Challenges) analysis of the institute forms the basis in framing the vision and mission which in turn depend on the direct and indirect feedbacks from stakeholders. After analyzing the internal and external environment, the institutional goals are set in all possible growth domains through brain storming sessions with Hod's, Research Scholars, Domain Matter Experts(DMS) and faculty members.

While formulating the strategic plan and deployment document, each and every stake holder is made to involve by building a spirit of ownership in them. The document is circulated to all the departments. Highest attention is paid to spell out clearly the execution and monitoring, by identifying measurable targets in line with the anticipated outcomes.

The SPD will synchronize the processes and efforts of the institution and it will also ensure that the institution will become a most promising preferred higher education institution in the Country.

## **Managing Trustee's Foreword**




The aim of higher education in India is to provide access, equity, and quality education to all the aspirants with transparency and accountability so as to ensure sustainable economic development of the nation. It is achieved through creation, transmission and dissemination of knowledge. Nagarjuna Educational Society (NES), Bengaluru has been contributing to the students for their development by providing technical and management education through good infrastructural facilities at all the institutions.

Nagarjuna College of Engineering & Technology (Autonomous), Bengaluru, was established in the year 2001. The institute within a span of two decades has earned the reputation for being student-centric and technology-driven learning environment that fosters budding aspirants to become core engineering professionals with challenging spirits.

The tenets of this Strategic Plan 2021-2030 are driven by the institute's core principles of developing human resources to serve the nation, recognizing teaching as a unifying activity, nurturing integrity, creativity and academic freedom and retaining a willingness to experiment with new paradigms.

I am Confident that NCET will make rapid progress towards achieving its vision of becoming a University at the earliest.



**Mr. J Chaitanya Varma**  
**SECRETARY**

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Bangalore, Karnataka.

Wednesday, 14<sup>th</sup> October, 2020

## Principal's Perspective



Nagarjuna College of Engineering & Technology (Autonomous), Bangalore is a premier institute in the state of Karnataka established and started in the year 2001, which is a part of Nagarjuna Group of Institutions, Bangalore. Nagarjuna College of Engineering has been leaders in academic excellence and pioneering in Technical Education for more than 2 decades now nurture, engage its students with different digital learning in different domain technologies with hands on experience and conventional teaching methodology through our state-of-the art Infrastructure facilities of our center of excellences with industry collaborations.

The Strategic Plan 2021-2030 has been developed in the context of the capacity expansion of the Institute as mandated by the AICTE norms. Given this setting, the broad objectives for the next spell are clear before us. These include the creation of the requisite infrastructure to meet expansion

plans, hiring the qualitative workforce viz; faculty strength and increasing the number of research activities and the research output. These goals have been formulated in a manner that builds on the strengths of the institute and the aspirations of the faculty, staff and students.

The vision of NCET next bringing our institution is to be in the top 10 and being a regional and rural leader in technical education and research, which helps career of students. True to its vision statement, the college aims to consistently provide and sustain an invigorating work environment that fosters a culture of excellence, innovation and entrepreneurship.



**Dr. Jitendranath Mungara**  
Principal, Devanahalli, Bengaluru

Nagarjuna College of Engineering & technology,  
Wednesday, 14<sup>th</sup> October, 2020

## **VISION, MISSION&QUALITYPOLICY**

### **Vision**

Leadership and always be the best and one among Top 10 Institutions of the country, in Academic Excellence!!!

### **Mission**

To fulfill the vision by imparting total quality education replete with the philosophy of blending human values and academic professionalism.

### **Quality Policy**

Nagarjuna College of Engineering and Technology (NCET) shall be maintained, as an “Institution of Excellence”, in the domains of Engineering, Technology and Management studies through continual improvement of system, processes and academic professionalism.



## STRATEGIC PLAN IDENTIFIES THE ROAD MAP & SET TARGET FOR 2021-2030

- Attain the status of University within next 5years.
- To attain NAACA++ gradeduring2<sup>nd</sup> Cycle Accreditation.
- To be rankedamongTOP100 engineering institutions in NIRF Ranking.
- To secure TOP5 position in ARIIA Ranking2020.
- Promote industry-institution collaboration with top MNCs.
- Establish Centers of Excellence in upcoming engineering fields like Artificial Intelligence (AI), Machine Learning (ML), Internet of Things (IOT), Cyber Security, RPA, Blue Prism, Cloud, Sales Force, AWS, 5G and ERP Solutions.
- Incubate successful start-ups creating innovative products and business models using the knowledge and technologies developed by the Institution.
- Provide an invigorating work environment for faculty and staff.
- Improve the involvement of alumni in the development of the institution by their participation in placements, workshops, symposiums, seminars, guest lectures, industry readiness, mentoring & counseling of student projects, incubation, research and development and consultancy.
- Collaboration with industries for Research & Development and consultancy projects.
- Collaboration with Institutions around the world to promote quality higher education and for supporting students/faculty exchange programs.

## **LONGTERMGOALS (2021-2030)**

- 1. To Create Centers of Excellence.**
  - Creation of Centers of Excellence (COE) by utilizing there sources and expertise in each cluster.
- 2. To attain University status.**
- 3. MoUs**
  - With premier universities in the world
  - Enhancing the number of MOUs with Industry and revisiting The Existing MOUs based on its merits.
  - Collaboration with Industries for research and innovative projects.
- 4. To Provide Modern Infrastructure Facility.**
  - Develop infrastructure for carrying out R&D activities with different verticals.
  - Appointing technology domain vertical experts.
  - Academic infrastructure to be strengthened further
  - Strengthen campus network to the WAN.
  - Modernization of high-end laboratories.
  - Up gradation of Central Library.
- 5. To have 50% of Faculty with PhD qualification.**
  - Encourage faculty to register for Ph.D
  - Support faculty who have already registered to complete their Ph.D.
  - Recruitment of faculty with Ph.D. from premier Institutions in Specialized area/industry expertise.

**6. To introduce new UG and PG Programs and enhance the intake of existing programs.**

- Explore the possibilities of adding new UG and PG programmes as per industry needs.
  - B.E -Agriculture Engineering,
  - B.E – Legal Engineering
  - B.E- System Engineering
  - B.E- Artificial Intelligence
  - B.E- Cyber Security
- Enhance intake across programs depending upon the demand.

**7 To facilitate students to become entrepreneurs (incubation center, start-ups).**

- Conduct Business Plan and Idea Competition.
- Encourage more campus companies to provide start up Opportunities for students.
- Provide the necessary infrastructure for incubating the ideas.
- Bring in mentors to hand hold the students with innovative ideas.
- Provide the seed money to develop prototypes,

**8 Use of digital technologies for providing skill sets and additional self-learning.**

- Adopt digital learning, e-learning solutions, and interactive sessions.
- Encourage self-learning techniques.
- Adopt blended learning to maximize student engagement.

**9 To collaborate with Foreign/National institutions of higher learning and research organizations.**

- Collaborate with reputed foreign universities/institutions.
- Faculty exchange programs.
- Partnership programs.
- Collaborate with universities/Institution of repute for research activities.
- Best practices from reputed academia & industry to bring holistic learning experiences.

**10 To establish collaborative laboratories with the support of industry.**

- Setup laboratories to pursue research with some of the reputed industries.
- Create experiential learning opportunities by providing live industry projects.

## **SHORTTERMGOALS (2021-2025)**

- 1 NAAC Accreditation & NBA Accreditation for all eligible programs.**
  - Eligible UG & PG programs accredited by NBA.
  - Continuation of accreditation status by NAAC& NBA.
- 2 Strengthen the campus Facilities and Support systems.**
  - Augmenting the laboratory facilities.
  - Online access to material on website, to further augment library resources to meet the growing needs in academia and research.
  - To upgrade the internet bandwidth regularly to support the Increased usage.
- 3 Enhance the Output in Research and Consultancy.**
  - To enhance the quality of research publications by motivating faculty to publish in SCI journals.
  - Focus on increasing the external funded research projects
  - Research with international collaborations.
  - Fostering Industry sponsored R&D projects.
  - Enhanced Consultancy projects.
- 4 Introduce New UG and PG Programs.**
  - Explore the possibilities of increasing intake in circuit branches.
  - Offering inter-disciplinary& multidisciplinary programs.
- 5 Introduce Multidisciplinary Courses/Projects**
  - Introduce multi disciplinary courses(cluster approach: Open electives)
  - Encourage multidisciplinary projects

## **6 Development of new Curriculum**

- Periodically design and develop for UG and PG Programs post academic autonomy.
- Strengthen course end survey.
- Increase industry relevant courses
- Encourage inter disciplinary projects

## **7 Foster Creativity and Innovation.**

- Establishing more number of Centre of Excellences.
- Improve the activities of the Incubation Centre.
- Apply for more patents to protect IP.
- Explore possibilities of patent commercialization.

## **8 Improve teaching learning Process.**

- Implement pedagogical innovations: OBE, active learning, & open ended experiments. Extended classrooms (Virtual Class rooms): Lecture capturing.
- Blended learning: E learning, Virtual labs, MOOCs, Social Learning.
- Comprehensive course implementation.

## **9 Organizing Technical Events.**

- Conduct events in cutting edge technologies and recent trends & developments across various domains.
- Conduct Seminars & Expert Lectures through professional bodies.
- Increase industrial visits and make it more accountable.
- Conduct international conferences/symposia and Preconference workshops.

### **10 Enhance Industry Institute Collaborations.**

- Enhancing the number of MOUs with Industry and revisiting the existing MOUs based on its merits.
- Adjunct Faculty & Industry experts
- Collaboration with Industries for research and innovative projects.
- Increasing the connect with the Industry through guest and expert lectures

### **11 Infrastructure requirement for e-Governance**

- Creation of database for online submission of documents for approval to regulatory bodies.
- Automate academic administrative process and develop metrics to assess the performance from time to time.
- Create a database to maintain the student records online.
- Create process for examination and evaluation activities with secured database.

### **12 Language Labs to teach:**

- English
- German
- French
- Japanese

### **13 Training Programs on:**

- GATE
- IELTS
- TOEFL
- GRE
- UPSC
- State Government Services.

### **14. Environmental Friendliness & Green Campus**

- Plantations
- Rain water harvesting & Sewage Treatment Plant.
- Renewable Energy usage
- Hygiene, zero plastic & green campus



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