# SRI VENKATESWARA COLLEGE OF ENGINEERING AND TECHNOLOGY (Autonomous)

R.V.S. Nagar, Chittoor



# STRATEGIC PLAN

# For

# 2017-18 to 2021-22

**Vision:**

Carving the youth as dynamic, competent, valued and knowledgeable professionals who shall lead the Nation to a better future.

**Mission**

- Providing quality education, student-centered teaching-learning processes and state-of-art infrastructure for professional aspirants hailing from both rural and urban areas.
- Imparting technical and management education to encourage independent thinking, develop strong domain of knowledge, own contemporary skills and positive attitudes towards holistic growth of young minds.
- Evolving Institution into a Center of Excellence and Research.

**Quality Policy**

Sri Venkateswara College of Engineering and Technology strides towards excellence by adopting a system of qualitative policies and processes with continued improvements to enhance students' skills and talents for their exemplary contribution to the society, the nation and the world.

**OBJECTIVES**

- Establish into a center of Excellence in learning, training and research
- Recruit and retain talent pool of teachers with outstanding competencies in teaching, research, consultancy and industry interfacing.
- Forge into alliances with top-notch core and IT industries for faculty development, student development, research and joint educational programmes.
- Create a congenial environment for holistic development of students and enhanced satisfaction of all stake holders.

**SHORT TERM GOALS**

- Practicing total quality management to ensure students-centered teaching-learning processes.
- Ensuring academic excellence by 100% pass percentage
- Arranging total placement for students by developing students' personality, technical skills and domain knowledge.
- Conducting programs on personality development, add-on skills, entrepreneurship, ethics and co-curricular and extra-curricular events on regular basis for students' development.
- Establishing stronger ties with Industries for better Institution-Industries Interaction, students' placements, projects and in-plant training.
- Undertaking consultancy and sponsored research activities by forging alliances with research organizations, government entities, industries and alumni.
- Fostering a cordial, harmonious and tripartite relationship among the management, faculty and students for their prospective growth and for establishing a congenial academic environment in the college.

**LONG TERM GOALS**

> Attain the status of Deemed-to-be University/State Private university, offering viable programs of relevance for upliftment of rural students and populace.

> Emerge as a globally recognized Center of Excellence in the fields of Engineering, Technology and Management by Research.

*The Governing Body has identified a few important parameters among others for envisaging the strategic plan to plan, implement monitor, evaluate and update the practices of institutions.*

**TEACHING:**

**Strategies:**

➢ To introduce novel methods of teaching such as co-teaching, parallel teaching and group teaching for quality and multi-disciplinarily.

➢ To adopt flip classroom mode for participative learning.

➢ To use modern tools such as animation, simulation and virtual tools in teaching.

➢ To encourage enhanced student participation in teaching transactions through group discussions, debates, role play and case studies.

➢ To adopt research-based teaching for better learning outcomes.

| S. No. | Activity | Year | | | | |
|---|---|---|---|---|---|---|
| | | 2017-2018 | 2018-2019 | 2019-2020 | 2020-2021 | 2021-22 |
| 1 | Establishment of Smart Classrooms/ studios | - | 1 | 1 | 1 | 1 |
| 2 | Introducing Blended learning and flip classrooms | - | √ | √ | √ | √ |
| 3 | Adopt research-based teaching for better learning outcomes | √ | √ | √ | √ | √ |
| 4 | Comprehensive Faculty self appraisal system | √ | √ | √ | √ | √ |

**LEARNING:**

**Strategies:**

- To introduce the concept of focus groups for enhanced learning.
- To adopt technology assisted learning tools such as MOOCS, NPTEL, Coursera and other e-learning content.
- To provide additional learning platforms and resources for self-learning and practice.
- To assign students real-time case studies for literature survey and research.

| S. No. | Activity | Year | | | | |
|---|---|---|---|---|---|---|
| | | 2017-2018 | 2018-2019 | 2019-2020 | 2020-2021 | 2021-22 |
| 1 | Implementation of MOOC | 2 | 2 | 2 | 3 | 3 |
| 2 | Scope for Self learning material | √ | √ | √ | √ | √ |
| 3 | Subscription to online resources | √ | √ | √ | √ | √ |

**RESEARCH:**

**Strategies:**

➢ To recruit teachers with a flair and competence in research.

➢ To equip laboratories with relevant modern equipment, software and library resources to suit research demands.

➢ To forge into alliances with prominent research groups for collaborative work.

➢ To apply for external research funding from private and public agencies in focused frontier areas.

➢ To create inter-disciplinary research groups for prospective applied research.

➢ To approach industry for setting-up of research laboratories on campus for the benefit of faculty and students

| S. No. | Activity | Year | | | | |
|--------|----------|------|------|------|------|------|
| | | 2017-2018 | 2018-2019 | 2019-2020 | 2020-2021 | 2021-22 |
| 1 | Recruitment of teachers with competence in research | 2 | 2 | 10 | 12 | 15 |
| 2 | Equip laboratories to suit research demands | 2 | 2 | 2 | 2 | 2 |
| 3 | External research funding Projects | 4 | 4 | 3 | 3 | 3 |
| 4 | Industry supported labs | 1 | 1 | 1 | 1 | 1 |

## CONSULTANCY:

### Strategies:

- To identify areas of expertise in each domain for offering technical consulting.
- To approach agencies for marketing the knowledge capital and technical resources.
- To prepare a Department/Institution brochure highlighting the expertise and facilities.
- To lend the technical resources such as sophisticated equipment and software to others on payment basis.

| S. No. | Activity | Year | | | | |
|---|---|---|---|---|---|---|
| | | 2017-2018 | 2018-2019 | 2019-2020 | 2020-2021 | 2021-22 |
| 1 | Recruitment of experts in each domain | 2 | 2 | 4 | 4 | 4 |
| 2 | Technical Services such as sophisticated equipment and software | √ | √ | √ | √ | √ |

**TRAINING:**

    **Strategies:**

➤ To establish a training centre with the resource persons from industry.

➤ To offer a variety of training modules to suit higher education or prospective career.

➤ To create online portals with high quality training database to practice.

➤ To continuously provide mentoring with experts from industry to apprise of the industry demands and relevant skill set.

➤ The core departments shall offer training students in technical domains.

| S. No. | Activity | Year | | | | |
|---|---|---|---|---|---|---|
| | | 2017-2018 | 2018-2019 | 2019-2020 | 2020-2021 | 2021-22 |
| 1 | Establish a training centre | - | √ | - | - | - |
| 2 | Mentoring with experts from industry | √ | √ | √ | √ | √ |
| 3 | Procurement of online training material | √ | √ | √ | √ | √ |
| 3 | Technical domain Training | √ | √ | √ | √ | √ |

**PLACEMENT:**

    **Strategies:**

➢ To create a college portfolio showcasing its strengths, facilities and talent pool of students.

➢ To liaise with Tier-I industry and corporate for students' placements in core and IT.

➢ To provide student internships in industry for real time experience.

| S. No. | Activity | Year | | | | |
|---|---|---|---|---|---|---|
| | | 2017-2018 | 2018-2019 | 2019-2020 | 2020-2021 | 2021-22 |
| 1 | Creating a college portfolio | √ | - | - | - | - |
| 2. | Core companies planned | 2 | 4 | 6 | 9 | 14 |
| 3. | Inviting Tier-I industry and corporate | 12 | 25 | 30 | 40 | 49 |
| 4. | Student internships in industry | 30 | 50 | 70 | 100 | 150 |
| 5. | Early on boarding | √ | √ | √ | √ | √ |

**ENTREPRENEURSHIP:**

**Strategies:**

➤ To identify students who are possessing entrepreneurial interests.

➤ To organize special awareness and training for students in developing the requisite skill set for entrepreneurship with the participation of successful entrepreneurs

➤ To arrange for interactions of students with Angel investors and other financial entities for prospective funding for their ideas.

| S. No. | Activity | Year | | | | |
|---|---|---|---|---|---|---|
| | | 2017-2018 | 2018-2019 | 2019-2020 | 2020-2021 | 2021-22 |
| 1 | Organize special awareness and training for entrepreneurship | √ | √ | √ | √ | √ |
| 2 | Interactions of students with Angel investors and other financial entities | √ | √ | √ | √ | √ |
| 3 | Applying for schemes like IIC | - | - | - | √ | √ |
| 4 | Promoting Student entrepreneurs | 5 | 5 | 6 | 10 | 10 |

## INCUBATION CENTERS AND START-UPS:

### Strategies:

- To establish incubation centers in specialized areas of Engineering.
- To invite industry and corporate to set-up incubation centers on campus.
- To encourage students and faculty to establish research and development start-ups on campus.

| S. No. | Activity | Year | | | | |
|--------|----------|------|------|------|------|------|
| | | 2017-2018 | 2018-2019 | 2019-2020 | 2020-2021 | 2021-22 |
| 1 | Establish incubation centers | - | - | - | - | 1 |
| 2 | Encourage students and faculty to establish start-ups on campus | √ | √ | √ | √ | √ |
| 3. | Collaborate with national incubation hubs and accelerators | - | - | - | - | √ |

## CURRICULUM DESIGN AND UPDATE:

### Strategies:

➢ To introduce fully flexible credit system, where in students acquire inter-disciplinary degrees.

➢ To incorporate curriculum content in line with American Societies Professional Knowledge areas.

➢ To embed skill development, values and entrepreneurship into curriculum.

| S. No. | Activity | Year | | | | |
|---|---|---|---|---|---|---|
| | | 2017-2018 | 2018-2019 | 2019-2020 | 2020-2021 | 2021-22 |
| 1. | implementing Choice based credit system | √ | √ | √ | √ | √ |
| 2. | Provision for Gap Year | √ | √ | √ | √ | √ |
| 3. | Introduction of Minor / Minor Industry specialized track and Honor degree in a discipline | - | - | - | √ | √ |
| 4. | Introduction of skill-oriented courses | | | | √ | √ |
| 5. | Introduction of community-oriented projects | √ | √ | √ | √ | √ |
| 6. | Adopting partially international universities/professional societies curricula | - | - | - | √ | √ |

# FACULTY DEVELOPMENT:

### Strategies:

- To prepare an Institutional comprehensive training development plan for faculty and staff.
- To support faculty in qualification upgradation.
- To sponsor faculties for international training through semester abroad programs.
- To sponsor faculty training in industry to acquire real time experience and expertise.

| S. No. | Activity | Year | | | | |
|---|---|---|---|---|---|---|
| | | 2017-2018 | 2018-2019 | 2019-2020 | 2020-2021 | 2021-22 |
| 1. | Institutional comprehensive training development plan | - | - | - | - | √ |
| 2. | Qualification upgradation of faculty to Ph. D | √ | √ | √ | √ | √ |
| 3. | Faculty self-appraisal system | √ | √ | √ | √ | √ |
| 4. | Faculty incentives for higher education and research & development | √ | √ | √ | √ | √ |

## STUDENT DEVELOPMENT:

### Strategies:

➤ To establish Student Activity Centre (SAC) for co-curricular and extracurricular activities.

➤ To organize extensive interactions of students with experts from industry and premier institutions.

➤ To sponsor students for industrial training and internship for real time experience.

➤ To support students for semester abroad program in premier international Institutions.

| S. No. | Activity | Year | | | | |
|---|---|---|---|---|---|---|
| | | 2017-2018 | 2018-2019 | 2019-2020 | 2020-2021 | 2021-22 |
| 1 | Establish Student Activity Centre (SAC) | - | √ | - | - | - |
| 2 | Art, literary and technical Clubs | √ | √ | √ | √ | √ |
| 3 | Organize extensive interaction with experts from industry and premier institutions s | √ | √ | √ | √ | √ |
| 4 | Sponsor students for industrial training and internship | √ | √ | √ | √ | √ |

# INDUSTRY INTERACTION:

## Strategies:

- To liaise with industry for faculty, staff and student development.
- To tie-up with industry for setting-up of advanced laboratories on campus.
- To collaborate with industry for starting Joint educational programs.
- To recruit professionals from industry as adjunct faculty.
- To seek feedback and inputs from industry on curricular aspects and skill development.

| S. No. | Activity | Year | | | | |
|---|---|---|---|---|---|---|
| | | 2017-2018 | 2018-2019 | 2019-2020 | 2020-2021 | 2021-22 |
| 1 | Liaise with industry for faculty, staff and student development) | √ | √ | √ | √ | √ |
| 2 | seek feedback and inputs from industry on curricular aspects and skill development | √ | √ | √ | √ | √ |
| 3 | Collaborate with industry for starting Joint educational programs | √ | √ | √ | √ | √ |
| 4 | Invite industry to set-up training/research centers on campus | √ | √ | √ | √ | √ |

**FOREIGN COLLABORATIONS:**

**Strategies:**

➢ To interact with foreign universities for curriculum development and implementation.

➢ To tie-up with foreign universities for faculty and student development.

➢ To collaborate with foreign Institutions in research and development activities.

➢ To start Joint Educational Programs with Foreign Institutions.

| S. No. | Activity | Year | | | | |
|---|---|---|---|---|---|---|
| | | 2017-2018 | 2018-2019 | 2019-2020 | 2020-2021 | 2021-22 |
| 1 | Interact with foreign universities for curriculum development and implementation | √ | √ | √ | √ | √ |
| 2 | Tie-up with foreign universities for faculty and student development | √ | √ | √ | √ | √ |

**ALUMNI RELATIONS:**

**Strategies:**

➢ To maintain and update the alumni digital database.

➢ To establish Alumni Association with prominent Alumni on the Governing Body.

➢ To start alumni chapters in prominent places where most of our alumni are employed or doing business.

➢ To create an eco-system for alumni to give back to the Institution in cash or kind.

➢ To provide special facilities and privileges to the alumni on campus during their visits to make them feel at home.

| S. No. | Activity | Year | | | | |
|---|---|---|---|---|---|---|
| | | 2017-2018 | 2018-2019 | 2019-2020 | 2020-2021 | 2021-22 |
| 1 | Alumni digital database | √ | √ | √ | √ | √ |
| 2 | Organize events of alumni chapters in prominent places | √ | √ | √ | √ | √ |

సాధనం సర్వత్ర సాధకం

**Principal**

PRINCIPAL
S.V. College of Engineering &
Technology, CHITTOOR. (A.P.)