



A Strategic Plan
for
Redefining the Past for a Bright Future
2016-17 to 2020-21




PRINCIPAL
SREE VIDYANIKETHAN ENGINEERING COLLEGE
(AUTONOMOUS)
Sree Sainath Nagar, A. RANGAMPET
Chittoor (Dist.) - 517 102, A.P., INDIA.

Vision:

To be one of the Nation's premier Engineering Colleges by achieving the highest order of excellence in teaching and research.


Mission

Through multidimensional excellence, we value intellectual curiosity, pursuit of knowledge building and dissemination, academic freedom and integrity to enable the students to realize their potential. We promote technical mastery of Progressive Technologies, understanding their ramifications in the future society and nurture the next generation of skilled professionals to compete in an increasingly complex world, which requires practical and critical understanding of all aspects.

Quality Policy

Sree Vidyanikethan Engineering College strives to establish a system of quality assurance to continuously address, monitor and evaluate the quality of education offered to students, thus promoting effective teaching processes for the benefit of students and making the College a Centre of Excellence for Engineering and Technological studies.




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OBJECTIVES

- Develop a campus which promotes higher learning and research
- Recruit and retain a diverse faculty of outstanding teacher-scholars with principles and discipline
- Promote industry – institute interactions
- Expose students to leading Industries and Corporate Houses
- Foster a harmonious, cordial and tripartite relationship among the Management, faculty and students for their respective growth and for establishing a congenial academic environment in the College

SHORT TERM GOALS

- Quality assurance and endurance through Accreditation by NBA and NAAC
- Academic excellence by achieving by 100% pass in examinations
- Encouraging students' participation in co-curricular, and extracurricular activities
- Honing life skills of the students
- To conduct add-on programs relevant to Industry.
- Organizing programs on entrepreneurship
- Arranging 100% placement for students




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LONG TERM GOALS

- To attain the status of Center of Excellence in Technical Education and Research
- To offer viable programs of relevance for upliftment of rural students and populace
- To undertake National and Internationally acknowledged research and development works in all disciplines by forging alliances with research organizations, government entities, industries and alumni.

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




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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				
		2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
1	Establishment of Smart Classrooms/ studios	-	2	2	2	2
2	Introducing Blended learning and flip classrooms	-	✓	✓	✓	✓
3	Adopt research based teaching for better learning outcomes	✓	✓	✓	✓	✓
4	Comprehensive Faculty self appraisal system	✓	✓	✓	✓	✓



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LEARNING:

Strategies:

- To introduce the concept of focus groups for enhanced learning.
- To adopt technology assisted learning tools such as MOOCS, NPTEL, AVEO 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				
		2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
1	Introduction of MOOC	-	1	1	1	2
2	Scope for Self learning material	-	√	√	√	√
3	Subscription to online resources	√	√	√	√	√



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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				
		2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
1	Recruitment of teachers with competence in research	2	4	6	8	10
2	Equip laboratories to suit research demands	1	6	8	10	12
3	External research funding Projects	4	10	12	15	18
4	Industry supported labs	6	2	2	2	2




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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				
		2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
1	Recruitment of experts in each domain	2	4	6	8	10
2	Technical Services such as sophisticated equipment and software	√	√	√	√	√



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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				
		2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
1	Establish a training centre	-	√	-	-	-
2	Mentoring with experts from industry	√	√	√	√	√
3	Procurement of online training material	√	√	√	√	√
3	Technical domain Training	√	√	√	√	√



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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				
		2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
1	Creating a College portfolio	-	√	-	-	-
2.	Core companies planned	6	10	12	14	16
3	Inviting Tier-I industry and corporate	5	8	10	12	15
4	Student internships in industry	30	40	50	70	100
5	Early on boarding	√	√	√	√	√




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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				
		2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
1	Organize special awareness and training for entrepreneurship	✓	✓	✓	✓	✓
2	Interactions of students with Angel investors and other financial entities	✓	✓	✓	✓	✓
3	Applying for national funding schemes like AIM	-				
4	Promoting Student entrepreneurs	5	10	15	20	25




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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				
		2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
1	Establish incubation centers	-	2	4	6	8
2	Encourage students and faculty to establish start-ups on campus	√	√	√	√	√
3.	Collaborate with national incubation hubs and accelerators	2	5	7	9	12




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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				
		2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
1.	Introduce Choice based credit system	√	-		-	-
2.	Introduce fully flexible credit system	-	-	√	-	-
3.	Gap Year	√	-	-	-	-
4.	Adopting partially international university curricula	-	-	√	√	√




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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				
		2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
1.	Institutional comprehensive training development plan	✓	✓	✓	✓	✓
2.	Qualification upgradation of faculty to Ph.D	✓	✓	✓	✓	✓
3.	Faculty self appraisal system (formats attached)	✓	✓	✓	✓	✓
4.	Faculty incentives for higher education and research & development	✓	✓	✓	✓	✓




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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				
		2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
1	Establish Student Activity Centre (SAC)	-	√	-	-	-
2	Art, literary and technical Clubs					
3	Organize extensive interaction with experts from industry and premier institutions	√	√	√	√	√
4	Sponsor students for industrial training and internship	√	√	√	√	√
5	Support students for semester abroad program	-	-	√	√	√




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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				
		2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
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 finishing schools on campus	-	√	√	√	√




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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				
		2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
1	Interact with foreign universities for curriculum development and implementation	-	✓	✓	✓	✓
2	Tie-up with foreign universities for faculty and student development	-	✓	✓	✓	✓
3	starting Joint educational programs	-	-	✓	✓	✓




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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				
		2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
1	Alumni digital database	✓	✓	✓	✓	✓
2	Start alumni chapters in prominent places	1	2	2	2	2
3	Alumni club	-	✓	✓	✓	✓



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