

Criteria	Criterion VI – Governance, Leadership and Management
Key Indicator 6.2	Strategy Development and Deployment
Metric 6.2.1	The institutional Strategic/ Perspective plan is effectively deployed

STRATEGY DEVELOPMENT AND DEPLOYMENT

(Click the relevant link. to view the file)

S.No.	Description	Relevant Link
1	Strategy Development and Deployment-2018	Click Here
2.	Strategy Development and Deployment-2023	Click Here

VISION 2018



**SRI VENKATESWARA COLLEGE OF ENGINEERING
PENNALUR, SRIPERUMBUDUR TALUK – 602 117.**

Vision - Mission Document (2013 – 2018)

Message

We are happy to note that the College is releasing the “Vision 2018”, the Vision – Mission document encompassing the 5 year plan from 2013 – 2018.

While the Vision – Mission remains the same, to make SVCE, a leader in higher technical education, the Vision 2018 document attempts to have a relook at the strategic plan to be adopted for the next 5 years to accomplish the same through the outcome of a SWOC analysis.

We appreciate the contribution by all concerned to the SWOC analysis and the efforts taken to propose the strategic plan and assure that the Management will lend its full support in the implementation of the Vision 2018.

- Management

Preface

For any organization, strategic planning is very much essential to accomplish the Vision through a well-planned Mission to accomplish the institutional goals in this highly competitive world. The Vision – Mission document is based on SWOC analysis, which identifies the current requirements and envisages the direction in which the organization should move to achieve its set goals and objectives.

The first part of this document defines the vision, mission which the Management wishes to pursue along with core values to be practiced. This is followed by the presentation of the SWOC analysis. After analyzing the internal and external environment, the achievable goals were set up in all possible domains through discussions in Staff Council, Executive Committee and in the Governing Council. The action plans are decided based on these goals.

While formulating the strategic plan and deployment document, care has been taken to involve the stakeholders to build a spirit of ownership which is vital for success of any organization. The Vision – Mission is also published in the web for dissemination at all levels.

The document is expected to put the thoughts into actions to ensure that SVCE will retain its name as one of most preferred technical education institutions in the state of Tamil Nadu by 2018.

VISION

To be a leader in higher technical education and research by providing the state of the art facilities to transform the learners into global contributors and achievers.

MISSION

To develop SVCE as a “Center of Excellence” offering engineering education to men and women at undergraduate and post-graduate degree levels, bringing out their total personality, emphasizing ethical values and preparing them to meet the growing challenges of the industry and diverse societal needs of our nation.

CORE VALUES

The following core values are the virtues that the Management wishes to be practiced at all levels in the institution so as to reaffirm its commitment to the purpose of education and to derive its merits such as moral, ethics, knowledge and wisdom.

Professionalism: Students at SVCE are not only taught quality engineering education, but also groomed as Professionals through various activities carried out by Student Council and various Club activities, which involves hosting events, through which students are trained in leadership, coordination, team work, interaction with various outside agency. Students are also involved in planning and decision making through various forums.

Empowerment: SVCE believes in empowerment at all levels. Accountability and responsibility are clearly defined through laid down procedures. Timely decision making is possible at SVCE through dissemination of power.

Transparency: At SVCE, all the activities are carried out as per laid down procedures, dissemination of power at all levels, accountability and responsibility are clearly defined and meetings with the Management at regular intervals makes the system more transparent.

Quality: Consistent efforts from top Management, faculty members, staff and alumni are always in the direction of quality. Quality is the continuous process to minimize lacuna within the organization. The institute never compromises on quality. We believe in giving our best in every domain we endeavour to do at institute. SVCE is confident, competent, focused and passionate about the work that leads to achievement of excellence.

SWOC ANALYSIS

Strengths

- Transparent Governance and administration.
- Well-Qualified and experienced faculty members with broad areas of expertise.
- Faculty members collaborate with other faculty members in other Premier Institutions.
- Good quality students.
- Good infrastructure with modern laboratories etc.
- Scholarship for Meritorious students.
- Consistent and good placement record.
- Recognition by many Universities abroad for higher studies.
- Industrial training for Teaching and Supporting Staff in the relevant field.
- Faculty with rich industry experience.
- Interdisciplinary interaction among departments.
- Encouraging students to take up entrepreneurship.
- Communication and Soft Skill training program for students to prepare them for placements / workplace.

- MoU with industries to help students for internship, training and placement.
- Many departments recognized as Research centers.
- Motivating faculty to receive funded projects from government agencies.
- Financial Assistance to Faculty to attend conferences abroad.
- Encouragement and Support organize Workshops / Conferences.
- Good laboratory facilities and research environment leading to consultancy and research projects.
- Conducive learning ambience (ICT enabled class rooms), transparent & impartial system and appreciable academic freedom.
- Training at Cochin Shipyard for Marine Engineering Students.
- Vantage location amidst the industrial belt adjacent to Chennai city which gives a lot of exposure to diverse culture and industrial contacts.

Weaknesses

- Inadequate Quarters / Residential facility for pursuing research after college working hours.
- Limited Hostel accommodation.
- No ground water in campus.
- Inadequate technology transfers.
- Limited library space.
- Lack of availability of electronic data.
- Unavailability of child-care center for working women.
- Limited International collaboration.
- Non-availability of exclusive research facility.
- Less MoU's with educational institutions in abroad.
- IPRs granted is a few.
- Lack of publicity measures.

Opportunities

- Reputation and Goodwill in the society.
- Infrastructure availability for starting advanced Post Graduate programs.
- Enhance research activities through sponsored R & D projects.
- Alumni Networking for Academic and placement activities.
- Internship opportunities.
- Adoption of new technologies such as bio-fuels & Nanotechnology as thrust areas.
- Creating Centers of Excellence.
- Tie-up with MSMEs in the industrial belt around the college.
- Technical training to industrial personnel by faculty members.
- Special entrepreneurship training to students with business background and startup idea.
- Development of IT based apps for different applications.
- Start-up India and Make-in India.
- Contribution to the methods and materials used for language learning.
- Good Alumni network.

Challenges

- Fewer tie-ups with industries.
- Declining PG Admission.
- Stiff competition in core placement.
- Lack of interest shown by MSMEs to collaborate.
- Declining interest in the society to pursue Engineering programs.
- Growing number of engineering institutions.
- Government policies towards funding for research projects.
- Industrial preference of science Graduates rather than engineering Graduates.
- Proliferation of electronic gadgets leading to diversion among learners.
- Crunch in Funding provided by industries.
- Increasing student behavioral issues and attitude towards learning.
- Imparting employability skills due to fast changing technology.

- Rapidly modified Government policies unsuitable for quick adaptation.
- Many students choosing courses out of peer pressure and lack of alternatives with little interest.
- Students from different backgrounds.
- Government policy on abolishing entrance examinations.
- Ever changing industrial expectations.
- Different methodologies adopted by government agencies for ranking and accreditation of institutions.
- Impact due to revised CIP* guidelines.
- Requirement by industries for multi-skilled professionals with managerial capabilities.
- Recruitment routed through RPSLs for Marine Engineering.
- Ups and Downs in the IT sector.

STRATEGIC PLAN OF ACTION

Based on the SWOC analysis the following needs are identified and they will be considered for implementation during the next five years.

- Setting up of an Entrepreneurship Promotion and Incubation Center to promote entrepreneurship and offer incubation facilities for nurturing innovative ideas.
- Constructing more hostel blocks to meet the growing demand for hostel by students who opt to join the institution from far and wide.
- Constructing more number of staff quarters to improve research activities through residential staff.
- Setting up of rain water collection pond to alleviate the problems due to non-availability of ground water and dependency on third party vendors for water supply.
- Building of new Library to address limited library space due to growing number of book storage and for keeping the structure within the safe load limits.

- To become Autonomous to enable modification of curriculum and syllabus to suit the growing needs of the industry and to improve the standard of education which is constrained by being one among hundreds of non-autonomous institutions affiliated to the University.
- Centers of Excellence in allied departments to enable research and consultancy work in thrust areas of future like Nanotechnology, cloud technology and artificial intelligence. This will be implemented in a phased manner.
- Creating a centralized database to bring in all operations under one umbrella for a more professional and integrated approach of various activities, which is likely to improve the productivity. This will be implemented by subscribing to a reputed ERP package.
- Creating a dedicated Placement cum Training Center to cater to the growing needs of the training and placement of the students, which plays a major role in defining the standard of the institution. It will also aid in improving the Industry-Institute Interaction through training for staff / students.

IMPLEMENTATION AND LEVEL OF ACHIEVEMENT AS ON DECEMBER 2018

Strategic Plan of the institution was submitted to the SVCE Management for approval and implementation. After careful consideration the SVCE Management approved the implementation of the following strategic plans. Based on the approval from the Management, applications were submitted to various Government Agencies for implementing the above plans.

- **Setting up of an Entrepreneurship Promotion and Incubation Center**

MSME, Government of India recognized our institute as Business Incubator for Implementing the scheme "Support for Entrepreneurial and Managerial Development of SMEs through Incubator" vide Letter No:3(6)2015/Inc./16th Meeting Dt:31.08.2015. Based on the recognition by MSME, GoI, Entrepreneurship Promotion and Incubation Center (SVCE-EPIC) was inaugurated in our college campus on 2nd August.2016. SVCE Management earmarked 2500 sq. ft area for establishing Business Incubator.

Specs: Maximum of 10 incubatees could be accommodated under MSME Scheme. Maximum of 20 Pre-incubation space available

Area: 2500 Sq. feet area; Each cabin size: 11 Feet X 10 Feet

Cost: Infrastructure Development cost: Rs.12.00 Lakhs

Facilities:

1. Five cabins (2 seaters) are available with furniture, Wi-Fi & LAN networking.
2. Working space with table and basic tools
3. Office with Desktop, laptop, printer, projector
4. Mini library which contains Text Books, reports, training manuals, etc.



- **Setting up of rain water collection pond**

SVCE had constructed rainwater harvesting system to an area of about 2600 sq.m in order to enhance the ground water quality and quantity in and around the campus. To convey rainwater in the campus, storm water rains have been constructed all around the campus, especially from roof tops, which is 2400 sq.m. The total area of rainwater harvesting system is about 2600 sq.m and can hold about 40 lakh litres of water. To facilitate percolation of water to underground, rain water harvesting pond depth has been designed for 1.5 meters with a storage capacity of 10 million litres.

Area: 2500 Sqm.

Cost: Rs.2.29 Crores

Facilities

- i) Storm water drainage
- ii) Terrace water link to storm water drain

RAIN WATER HARVESTING POND AT SVCE CAMPUS



- **Building of new Library to address limited library space**

A spacious four storey (Ground + 3 Floors) new library building was constructed with a total area of 4900.75 Sq. Mt. (52732.07 Sq. Ft.). The size of new library building is more than 3 times of old library building which was 1338 Sq. Mt. (14402.11 Sq. Ft.). The new 'Dr. A.C. Muthiah Central Library', was inaugurated by Dr. A.C. Muthiah, Chairman of Governing Council, Sri Venkateswara College of Engineering on 2nd November 2016.

Specification:

Total area - 4900.75 sq.mt. (52732.07 Sq.Ft.).

Cost - Rs.15.25 Crores

Floor-wise Area:

- Ground Floor - 1,531 Sq.Mt. or 16,473.67 Sq.Ft.
- First Floor - 1,148.88 Sq.Mt. or 12,362 Sq.Ft.
- Second Floor - 1,148.47 Sq.Mt. or 12,745 Sq.Ft.
- Third Floor - 1,036.41 Sq.Mt. or 11,152 Sq.Ft.

Floor-wise Facilities:

Ground Floor

Cloakroom, Catalogue Search (OPAC) & Self Renewal, Journals Section - Printed & Online Journals of reputed Publishers - IEEE, Springer, Science Direct, Nature, ASCE, ACM, etc., Reference Section, Books for Competitive Examinations, A/C Reading Halls with Wi-Fi facility for Students and Staff, Circulation Counter, Reprographic Section, Conference Hall (with Video Conferencing Facilities), Seminar Hall (with Video Conferencing Facilities) and Cafeteria.

First Floor

Library Office, Record Room, Binding Section, Two Book Stacks, Back Volume Section and A/C Reading Halls for Students and Staff.

Second Floor:

Digital Library - NPTEL & SVCE Faculty Video Lectures, Server Room, Book Bank, Two Book Stacks and A/C Reading Halls for Students and Staff.

Third Floor:

Proposed to have a permanent exhibition on Science and Technology which will have innovations, working models, projects, etc. of all engineering discipline.

Other facilities available in Dr. A.C. Muthiah Central Library are LIFT, Fire Alarm & CCTV Surveillance, computer facilities to search Library Books, eBooks, eJournals, Internet, etc. and Restrooms in all floors.



- **To become Autonomous**

The University Grants Commission (UGC) vide letter No.22-1/2016 (AC) dt. 27th May 2016 had conferred fresh autonomous status to our institution for a period of six years with effect from 2016-17. SVCE Management earmarked 435 Sq.m space for the office of CoE. A strong room was built. Necessary Infrastructure has been provided. Various committees as per stipulated norms were constituted.

Floor-wise Area:

- Ground Floor : 435 Sq.m (Excluding Workshop & Machine Shop Area)
- First Floor : 435 Sq.m (5 Rooms)
- Second Floor : 430.6 Sq.m (4 Rooms)

Facilities:

- Computers
- Printers (B&W and Colour)
- OMR Scanner
- Bar Code Printer
- Laptop
- Paper Shredders
- UPS



- **Centers of Excellence in allied departments**

In July 2016, an “Interdisciplinary Centre for Nanotechnology” was set-up through joint efforts from Departments of EEE and Biotechnology. In January 2017, construction of 500 sq.ft of Class 10,000 type Cleanroom facility was completed. Intramural seed funding amounting to Rs.7.00 lakhs per year has been sanctioned for 3 years. The thrust area includes Micro and Nano electronics, Biotechnology, Optoelectronics, Solar cells and Nano materials.

Specifications:

Shared facility for Nano Research with the following thrust areas.

1. Thin film technology and Microelectronics
2. Nanobiotechnology and Tissue Engineering
3. Nanocomposites
4. Computational Engineering

Area: 500 Sq.Ft (To be expanded to 1000 Sq.Ft in future).

Cost:

Rs.17.00 Lakhs: Existing Equipment.

Rs.90.60 Lakhs: Purchase pending from DST-FIST and DST-SERB grants.

Facilities:

Available:

DC Sputtering Unit, RF Power Supply, Wet bench- Fume hood, Gases, Regulators, Water Chiller, Annealing Chamber and Accessories, Ultrasonicator, Magnetic Stirrer, Mass Flow Controller, Cleanroom facility

Proposed:

Mask Aligner for Lithography, Dynamic Light Scattering (DLS), Electrical Characterization Setup, Simulation and Modeling Software, High Energy Ball Mill, 3D Printer



Annealing Furnace



RF Sputtering Chiller



Wet Bench



Ultrasonicator

Conclusion

Towards the end of the five year period from 2013-2018, the institution has been able to identify the crucial needs and implement various important aspects as a part of the strategic plan with a view to march towards the vision of the institution. While it is understood that there are many other aspects that need to be covered, they will be

taken up as a part of the strategic plan during the next five year period in addition to the new requirements that may be identified as crucial requirements at that point of time.





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Vision - Mission Document (2013 – 2018)

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VISION 2023



**SRI VENKATESWARA COLLEGE OF ENGINEERING
PENNALUR, SRIPERUMBUDUR TALUK – 602 117.**

Vision - Mission Document (2018 – 2023)

Message

We are happy to note that the College is releasing the “Vision 2023”, the Vision – Mission document encompassing the 5 year plan from 2018 – 2023.

The strategic plan document, “Vision 2023”, to make SVCE, a leader in higher technical education as envisioned by the founders, attempts to have a relook at the important strategies to be adopted for the next 5 years.

The mission to accomplish the vision is derived from the inputs given by the various stakeholders such as Students, Teachers, Parents, Employers and Alumni during the course of various meetings and assessed through a SWOC analysis.

We appreciate the contribution by all concerned and the efforts taken to propose the strategic plan and assure that the Management will lend its fullest support in the implementation of the Vision 2023.

- Management

Preface

For any organization, strategic planning is very much essential to accomplish the Vision through a well-planned Mission to accomplish the institutional goals.

The Vision – Mission document is developed based on the inputs given by the stake holders through feedback collected during various interactions. Through the feedback and SWOC analysis requirements were identified and the direction in which the organization should move to achieve its set goals and objectives are formulated.

The first part of this document defines the Vision and Mission of the Institution along with the core values practiced. This is followed by the presentation of the SWOC analysis. After analyzing the internal and external environments, the achievable goals were set up in all possible domains through discussions in Staff Council, Executive Committee and in the Governing Council. The action plans are decided based on these goals.

While formulating the strategic plan and deployment document, care has been taken to involve all stakeholders to build a spirit of ownership which is vital for success of any organization. The Vision – Mission is also published in the web for dissemination at all levels.

The document is expected to put the thoughts into actions to ensure that SVCE will improve its ranking and become one of the most preferred technical institutions in the country.

VISION

To be a leader in higher technical education and research by providing the state of the art facilities to transform the learners into global contributors and achievers.

MISSION

To develop SVCE as a “Center of Excellence” offering engineering education to men and women at undergraduate and post-graduate degree levels, bringing out their total personality, emphasizing ethical values and preparing them to meet the growing challenges of the industry and diverse societal needs of our nation.

CORE VALUES

The following core values will be practiced at all levels in the institution from the Management to the staff to the students to ensure that these virtues translate into the way of life and living exhibited by all related to the institution.

Professionalism: Students will be groomed as Professionals through various activities through which they will be trained in leadership, coordination, team work and interaction with various people. Students will also be involved in planning and decision making through various committees. Professional behavior by faculty members and staff will be ensured such that the same is emulated by the students

Empowerment: SVCE believes in empowering people at all levels. Accountability and responsibility will be clearly defined through which timely decision making will be made possible by vesting powers at appropriate levels.

Transparency: At SVCE, all the activities will be carried out as per laid down procedures. Meetings with the Management at regular intervals will be conducted to facilitate better interaction with stakeholders and to make the system more transparent.

Quality: “Consciousness towards Quality” is the theme with which the Quality Management Systems such as ISO and IQAC work in the institution.

Measure of Quality in all the activities will be ascertained through various process measures. Continuous steps will be taken to ensure that quality consciousness is impregnated and nurtured from the grassroots level.

EXTRACT FROM SWOC ANALYSIS

Strengths

- S1. Transparency in Governance and Administration.
- S2. Qualified and Experienced faculty members
- S3. Good quality of students.
- S4. Good infrastructure with modern laboratories.
- S5. Scholarship for Meritorious students.
- S6. Consistent and good placement record.
- S7. Recognition by many Universities abroad for higher studies.
- S8. Industrial training for Teaching and Supporting Staff in the relevant field.
- S9. Faculty with rich industry experience.
- S10. Interdisciplinary interaction among departments.
- S11. Encouraging students to take up entrepreneurship.
- S12. Communication and Soft Skill training programme for students to prepare them for placements / workplace.
- S13. MoU with industries to help students in availing internship, training and placement.
- S14. Many departments recognized as Research centers.
- S15. Incentives to receive funded projects from government agencies.
- S16. Financial Assistance to Faculty to attend conferences abroad.

S17. Encouragement and Support organize Workshops / Conferences.

S18. Good laboratory facilities and research environment leading to consultancy and research projects.

S19. Conducive learning ambience atmosphere

S20. Training at Cochin Shipyard for Marine Engineering Students.

S21. Academic Autonomy

Weaknesses

W1. Inadequate Quarters for providing residential accommodation.

W2. Limited Hostel accommodation.

W3. Water logging in the campus due to non-absorption of water by the clayey soil.

W4. Inadequate technology transfers.

W5. No guest house available to accommodate visitors / guests.

W6. Lack of availability of electronic data.

W7. Limited International collaboration.

W8. Less MoU's with educational institutions abroad.

W9. Few IPRs.

W10. Lack of publicity and Outreach measures.

W11. Office Space is limited

Opportunities

- O1. Reputation and Goodwill in the society.
- O2. Internship opportunities with neighboring industries
- O3. Publicity through Social Media access
- O4. Creating Centers of Excellence with neighboring industries.
- O5. Tie-up with MSMEs in the industrial belt around the college.
- O6. Technical training to industrial personnel by faculty members.
- O7. Entrepreneurship training to students with novel ideas.
- O8. Development of IT based apps for different applications.
- O9. Start-up India and Make-in India initiatives.
- O10. Scope to strengthen Curriculum through Industry tie-ups
- O11. Scope to achieve international standards through OBE
- O12. Good Alumni network.

Challenges

- C1. Competition in placement.
- C2. Lack of interest shown by MSMEs to collaborate.
- C3. Declining interest in the society to pursue Engineering programs.

C4. Growing number of engineering institutions.

C5. Government policies towards funding for research projects.

C6. Industrial preference of science Graduates rather than engineering Graduates.

C7. Proliferation of electronic gadgets leading to diversion among learners.

C8. Increasing student behavioral issues and attitude towards learning.

C10. Imparting employability skills based on fast changing technology.

C11. Requirement by industries for multi-skilled professionals with managerial capabilities.

C12. Good Training and Placement Facilities in other institutions.

STRATEGIC PLAN OF ACTION

The steps taken as a part “Vision 2018” addressed some of the crucial aspects identified based on priority from the SWOC analysis carried out in 2013. The same are given below.

1. Setting up of an Entrepreneurship Promotion and Incubation Center to nurture Innovation and promote Entrepreneurship.
2. Setting up of rain water collection pond to address the issue of Non-availability of ground water in the campus.
3. Building of a Library complex to address the limited space available in the library.
4. To become Autonomous to improve the standard of education.
5. Centers of Excellence in allied departments to enable Research and Consultancy.

Some aspects of the above implementation from Vision 2018 were required to be extended for bringing in full-fledged completion such as setting up of Roof top water collection and Water Channeling system to enable rain water reach the RWC pond and to address the weakness parameter, W3.

In addition to the above, based on the inputs from the stake holders and from the SWOC analysis the following needs have been identified based on the priority given in the order of W,C,O and S and they will be considered for implementation during the next five years ending in the year 2023.

The Management in its Board of Trustees has committed to earmark suitable budget to carry out the activities identified through the strategic plan in a timely manner and in different phases when the expenditure involved is more and exceeds the nominal budget allocated in a financial year for these activities.

1. Implementation of E-Governance through a Campus Management Software

This activity is identified to address the Weakness parameter W6. With the growing strength of Teachers, students, Programs and various activities, the necessity to have a paperless record of all data, activities and processes at all times is felt. Accordingly, a subscription to a cloud based Campus Management Software (CMS-ERP) is proposed through a reputed ERP service provider. The software is supposed to ensure tracking, linking and availability of all data and information through portable cloud based access thereby addressing the issue completely.

2. Establishment of a dedicated Training cum Placement Cell

This activity is identified to address the Challenge parameters C1, C10 and C12. With growing number of recruiters and increased frequency of Placement cum Training activities, the need for a dedicated space is felt to avoid disturbance to the departments which are offering their space for the conduct of the activities and also to offer good facilities and impression to the recruiters on par with other leading institutions.

3. Creation of an Internship Office

This activity will tend to exploit the O2 component of the SWOC analysis. The Internship office will be involved in creating internship opportunities for the students by suitably mapping the interests and capabilities of the students with the opportunities available in the organizations, by creating a data bank of opportunities

and talents. Through suitable techniques the mapping will be optimized to ensure that the internship opportunities are available for creating a good talent pool. Suitable office and infrastructure will be provided for this purpose.

4. Expansion of the College Administrative Office

This activity is identified to address the weakness parameter W11. A full-fledged and spacious office with separate sections for Human Resources, Academic and Administrative sections is proposed. Provision of Infrastructure Facilities needed for the office along with additional human resources will be also a part of this activity to integrate with the proposed paperless office.

5. Creation of an Incubation Park and Tinkering Lab

With the motivation derived from the constitution of the Entrepreneurship Promotion and Incubation Center (EPIC) and the overwhelming interest shown by the students / Alumni and public towards the start-up culture, the EPIC will be diversified to accommodate to provide pre-incubation services. Suitable space and facilities will be earmarked to create incubation center and an office will be set up to nurture the start-up ecosystem to facilitate the incubatees to evolve into full-fledged entrepreneurs capable of running big enterprises. To hone the culture of innovation a tinkering lab will also be set up. Suitable Government funding will be sought to ensure that these centers are well endorsed. Through this endeavor many aspects of the SWOC analysis viz, S11, W4, W9, O7, O8 and O9 will be addressed

6. Augmenting the Centers of Excellence

In compliance with the Vision and Mission of the institution and to address the Opportunities given in O4, O5 and O7 the augmentation of facilities in the thrust areas identified by the Departments will be taken up. Emerging and Multi-disciplinary areas identified by MSME will be given preference for creating and sustaining the Centers of excellence. Suitable support from Industries pertaining to the domains will also be sought.

7. Construction of additional Hostel Block to increase the capacity of the College Hostels

This activity is planned based on the inputs received from the earlier vision statement based on the increased enrollment of students from the rural parts of the state. With limited space in the hostels, the students are directed to stay outside the campus. With no proper facilities available outside the campus, the students are put into hardship. Hence an additional hostel block, especially for the boys is proposed to address the issue indicated by the weakness parameter W. Also, it is planned to create some more additional space to accommodate some guests by converting the hostel space as a guest house to address the weakness parameter W2.

8. Creation of a Center for Education Development

This activity will aim to reinforce S21 and O11 aspects of the SWOC by creating a Center for Education Development. With academic autonomy offering the scope for strengthening the curriculum in accordance with

the requirements of the industries and to subsequently achieve the set standards through OBE, the Office of Education Development will play a major role. The various aspects of this office would be the amalgamation of the IQAC and ISO which will be together known as the Quality Management Cell along with Office of Dean-Academic, Dean-Educational Development, Dean-Research and Controller of examinations. The office would be involved in setting academic standards for the institution and lay out well defined procedures to achieve suitable rankings and accreditation. Necessary infrastructure and facilities will be provided for the same.

In addition to the above tangible proposals, following steps will be taken to reinforce the strengths, utilize the opportunities, reduce the weakness and overcome the challenges in the following points observed through the SWOC analysis:

S7/W8: MoUs with Universities abroad to effect summer / winter internships will be signed

S8/O6: Industrial training for Teaching and Supporting Staff will be mandated by earmarking a part of the summer / winter vacation for the purpose

S10: More inter-disciplinary courses will be introduced

S12: Assessment reports for students to understand their level of competency will be attempted

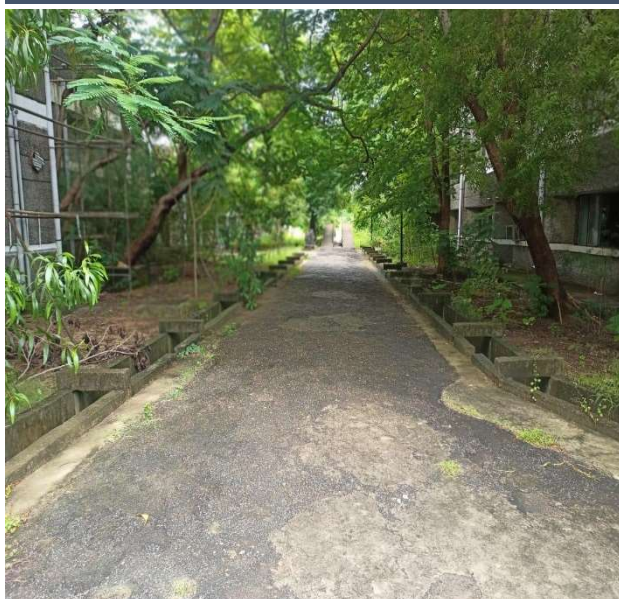
W4. Innovation eco-system will be strengthened by motivating the faculty members

W10/O1/O3/O11/C1/C3: Separate Marketing division will be created to create more publicity and promote Outreach

C9. Psychological counseling to address indifferent behavior will be attempted.

IMPLEMENTATION AS ON DECEMBER 2021

1. Creation of Water Channels



Rain Water Channeling System

Specifications of rain water Catchment and Channelization

- Water Catchment area: 1,26,000 Sq.m
- Length of Channel: 5300 m
- Max Width: 2 m
- Min Width: 0.5 m
- Max Depth: 1.4 m
- Min Depth: 0.4 m
- Number of Culverts: 22
- Total Cost (in Lakhs): Rs.1204.78
- Cost incurred till Dec 2021 (in Lakhs): Rs.520.11

2. E-Governance through a Dedicated Campus Management System (ERP) Software

Software Deployed: Master soft RF Campus OPEX Model – Microsoft Azure Cloud Based ERP Solution

Number of Users: 4300 users [Student, Faculty and Staff]

Availability: 24/7


Modules covered:

- 1. Admission and Fees Collection:** Integrated Online Student Admission Registration / Enrolment, Admission Approval, Tuition fee, Hostel/Transport Fee collection, ID Card Printing, PhD student details.
- 2. Academic:** Course Management, Student Attendance, Student information Management, Co-curricular information, TC, CC Generation. SMS/email to students. Fee management. Club Activities and Feedback Collection.
- 3. Examination:** Exam Registration, Pre exam process, Post Exam Processes such as Result processing, publishing and Grade sheet printing.
- 4. Training and Placement:** Placement / Higher studies Category registration, Placement Schedule Announcement, Student registration, Selection process.
- 5. Hostel Management:** Student request, Student hostel allotment, Room allocation, Mess bill calculation. Student biometric attendance.
- 6. E learning:** Creation of Online Assessments like MCQs and Course Materials

7. **Payroll:** Generation of Payroll based on Leave and other applicable criteria
8. **HRMS:** Employee service book, Employee leave card, Biometric attendance and Appraisal.
10. **Alumni Management:** Database, Meetings and giving back.
11. **Accounts & Finance:** All aspects of Accounting and Finance including TDS services.
12. **Stores:** Inventory and Purchase
13. **Library Management:** Books Purchase, Issue, returns and Stock verification
14. **IQAC and Outcome Based Education:** Calculations of COs, POs and PSOs, IQAC activities
15. **Vehicle Management:** Bus route allocation, Bus schedule, log book, Fuel indent entry
16. **General administration:** Service requests, Grievance and redressal, Estate Management, Meeting Management, Health Center.
17. **Mobile app :** MOPAC App for Library , SVCE Diary App for portable access to ERP services
 - The ERP cost [4300 users] : Rs.38,35,944/- pa
 - The cloud charges : Rs.6,30,000/- pa
 - The power BI cost : Rs.7,479/- pa

Screen Shots of CMS (ERP)

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ஸ்ரீ வெங்கடேஸ்வரா பொறியியற் கல்லூரி
Sri Venkateswara College Of Engineering
Autonomous - Affiliated to Anna University
Sriperumbudur Tk., Kancheepuram District
Tamil Nadu, India - 602 117

Sign In

User name

Password

Captcha
 3U842

LOGIN

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LOGIN SCREEN

ie.com/mail/u/0/?tab=wm#inbox/FMfcgzGmtNjKsNpqsHQtdCKrFvxSNq?projector=1&messagePartId=0.1

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2662 Male 1093 Female 3755 Total Student 4242 Active Users

swayam

Admission Year

Year	Count
2016	15
2017	35
2018	962
2019	841
2020	1004
2021	898

Quick Access

Staff Leaves

Leave Types	Total
Applied Leaves	0
Approved Leaves	952
Pending Leaves	71

Result Analysis

There are no records available to display...

Academic Activities

Activity	Session	Start Date	End Date	Activity Status
Backlog Registration	DEC-21	01/01/2022	10/01/2022	Stopped
Subject Teacher Feedback	DEC-21	24/12/2021	15/01/2022	Started
Revaluation	MAY-21	23/12/2021	31/12/2021	Stopped
MODERATION	MAY-21	16/12/2021	24/12/2021	Stopped
Project/practical External Mark entry	DEC-21	11/12/2021	10/01/2022	Stopped
MODEL EXAM	DEC-21	11/12/2021	08/01/2022	Stopped

Notice/News

No records to display...

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DASHBOARD

3. Augmentation of Centers of Excellence

SVCE has identified Industrial Automation and Artificial Intelligence as Thrust areas in addition to the Field of Nano technology, to create centers of excellence.

SVCE, on par with IITs and NITs, has setup a state of art Robotic Wire-arc additive manufacturing, which is a kind of metal 3-D printing Technology. WAAM Equipment worth Rs.55 Lakhs has been established in the campus with Rs.35, 00,000 provided by AICTE and Rs.20,00,000/- provided by SVCE.

A lot of consultancy work from various organizations and Institutes are being carried out and are envisaged using this set-up.



Wire Arc Additive Manufacturing machine

In addition to the above equipment, Vertical Machining Center and CNC Turning Center along with 3-D printers, Laser Marking Machine and Pin-on-Disc Machine have been procured to aid tribology studies. This centre has been established at a cost of Rs.35,00,000/- with part funding support from AICTE.



Vertical Machining center



3-D Printers



Laser Marking machine



Pin-On-Disc Machine

Two centers for carrying out high end computing in the thrust area of Artificial Intelligence such as Data Analytics and Machine Intelligence have been set up.





Name of the Center	Computer Configuration	Total cost (Rupees in Lakh)	Areas of Research
Machine Intelligence Lab With 37 Computers	Lenovo Thinkstation P340, i7 2.9 GHz 10th Gen, 8GB DDR4, NVIDIA Quadro T600 2 GB Graphics Card, 1TB HDD, 21.5" Monitor	37,82,266	Transfer Learning, Quantum Machine Learning, Explainable AI, Relational and Structured Learning, Autonomous Learning
Data Analytics Lab with 36 Computers	Lenovo Thinkstation P340, i7 2.9 Ghz 10th Gen, 16GB DDR4, NVIDIA Quadro T1000 4 GB Graphics Card, 1TB HDD, 21.5" Monitor	43,63,596	Machine Learning and Deep Learning for Domains: Computer Vision and Speech, Natural Language Processing(Text and Speech), Time Series Analytics, Predictive Learning, Developing Robotics Project Automation Systems for Banking Applications

4. Expansion of the College Administrative Office



Administrative Office



Visitors Lounge in Principals' Office



Board Room



Reception Area in Management Office

Administrative Office

Total Area : 6517 Sqft

Total Cost : Rs. 87,94,192

Room Details	No of Rooms	Area Sq.ft
Principal Room	1	400
Secretary Room	1	400
Treasurer Room	1	180
Executives Room	4	490
Committee Meeting Room	1	250
Mini Conference Hall	1	260
Staff Cabins	12	2800
Record Rooms	3	360
Strong Room	1	360
Principal Visitors Waiting Area	Seating Capacity (15 nos)	400
Secretary / Treasurer visitors waiting area	Seating Capacity (9 nos)	185
Common Facilities		432
Total		6517

Management Office

Total Area : 5190 Sqft

Total Cost : Rs.2,18,73,247

Room Details	No of Rooms	Area Sq.ft
Board Rooms	2	1005
Trustee Rooms	2	890
Pantry Cum Dining	1	910
Common Facilities (Lounge / Rest rooms, Reception		2385
Total		5190

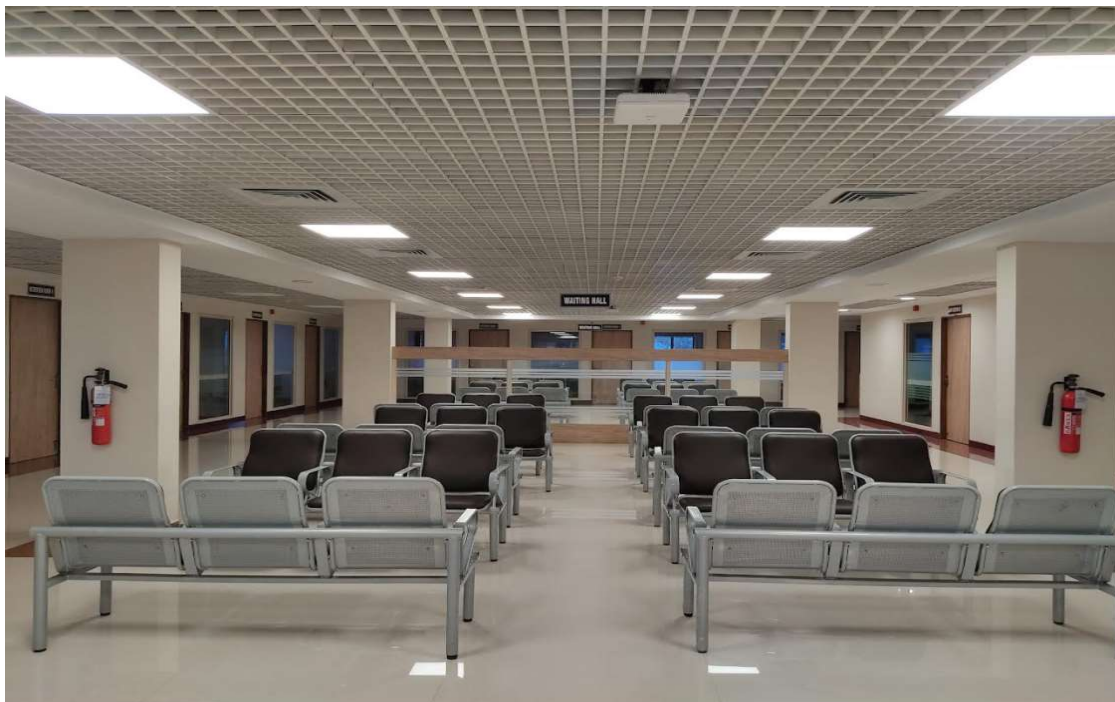
5. Creation of Dedicated Training cum Placement Center



Presentation Hall cum Testing Center



Interview Rooms



Candidates Waiting Lounge



Group Discussion Rooms

Training and Placement Cell

Total Area : 9100 Sq.ft
Presentation area : 2130 Sq.ft
Placement Center : 6000 Sq.ft
Reception area : 970 Sq.ft
Total Cost : Rs.4,05,52,265/-

Room Details	No of Rooms
Interview Rooms	13
Group Discussion Rooms	4
Presentation Hall	1
Waiting Hall	1
Placement Office	1
Lounge for Guests	1
Store	1
Pantry	1

Facilities

Equipment	Value in Rs. Lakhs
Laptops -120 Nos.	42
Interactive Flat panel	1.87
Printer	0.12
Public Address System	

6. Construction of Eighth Hostel Block



Entrance of the Eighth Hostel Block



Room in the Eighth Hostel Block

Eighth Hostel Block	
Inauguration Date	25/2/2021
Number of Rooms	48
Capacity (Beds)	192
Area per room	24.18 Sq.m
Entertainment Halls	2
TV Hall area	37.4 Sq.m
Other Facilities	WiFi, Solar Water Heating, RO Water Supply, CCTV Surveillance
Total Cost	Rs.12.49 Crores



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