SELF STUDY REPORT

FOR

1ˢᵗ CYCLE OF ACCREDITATION

SAI TIRUMALA NALABOTHU VENKATA RAO ENGINEERING COLLEGE

SAI TIRUMALA NALABOTHU VENKATA RAO ENGINEERING COLLEGE,
OPPO - SAI BABA TEMPLE, JONNALAGADDA VILLAGE, NARASARAOPET
GUNTUR DIST, ANDHRA PRADESH , 522601
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Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

SAI TIRUMALA NVR ENGINEERING COLLEGE(STEN) was established in the year 2007 by Edara Venkateswarlu Society. This institution is located in a sprawling campus of about 12.97 acres at Jonnalagadda. This institution, approved by the Government of Andhra Pradesh and All India Council for Technical Education, is affiliated to JNTUK,Kakinada, Andhra Pradesh. Presently, **Sri Nalabothu VenkatRao** as Chairman and Managing Trustee of the Institution, is providing by his dynamic leadership all the encouragement and support. The Institution commenced its functioning from the academic year 2007-08, with an intake of 240 students and 20 faculty members, offering U.G programmes in CSE,IT, EEE and ECE . At present, it has a strength of 1754 students and 156 faculty members. Many students have gone for higher studies both within India and abroad. Our students have been performing commendably well in State and National level sports and games competitions.

Sai Tirumala has taken great strides in Engineering Education and has emerged as one of the Pioneering Institutions in the rural area in India. STEN has been striving towards achieving its Vision.

Vision

Pioneering professional education through quality and producing competent professionals with appropriate attributes to serve the cause of the nation and the society.

Mission

To impart quality education through state-of-art infrastructure, laboratories and dedicated faculty

Shaping young students as proficient, competent and socially responsible technocrats with ethical values

Fascinating faculty members and students towards research and development for the betterment of the society

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Constant encouragement and full-fledged support from the Management. Dedicated, well-qualified and competent faculty with research intent Sprawling Campus in a serene environment with excellent infrastructure. Well-equipped labs.
- Effective mentoring system providing constant guidance to the student and feedback to the parent.

Providing scope for overall development of personality of the student through Sports, Associations and Clubs.

- To encourage and motivate the faculty to orient their minds towards research and publication
- Periodic publication of research papers in National and International Conferences/journals Workshops/Seminars.
- Encouraging faculty to participate in workshops/seminars/ National and International Conferences courses/ short term courses/ AICTE sponsored courses/ UGC sponsored courses
- Excellent Placement Records

Institutional Weakness

- Industry-Institute interaction needs improvement is at snail pace
- Number of "Research Centres" recognized by JNTUK,Kakinada is less.
- Number of MOU's with Industries for training students, needs to be enhanced.
- More relevant online, indexed journals to be made free-downloadable under Institutional membership.

Institutional Opportunity

- Considering research projects of National Importance as well as social relevance.
- Participation of Alumni in the task of enhancing the employability of outgoing students.
- Exploring more opportunities for consultancy projects
- Considering to initiate 'Start-ups' within the Campus itself.

Institutional Challenge

- To become the best Engineering Colleges in Andhra Pradesh.
- Making the research work done at the Institution suitable for industrial application and fulfill the requirement of the society.
- In this fast-growing technological era, it is hard to adjust and adapt quickly since the academic curriculum is prescribed by the affiliating University.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The Institution is affiliated to JNTUK University, Kakinada and the curriculum and syllabi prescribed by JNTUK University, Kakinada are strictly adhered to effective curriculum delivery is ensured through a process as given below:

- Advance planning of academic activities
- Formulation of objective driven teaching plan
- Preparation of adequate learning materials
- Maintenance of course files by faculty
- Remedial Classes for slow learners

- Mentor-ward system
- Periodic review of teaching-learning process by the Principal
- Systematic examination process with despatch of reports to parents
- Guest lectures, seminars, industrial visits and training programmes
- Refresher Courses, workshops and FDPs for up gradation of faculty's skills

Efforts relevant to gender-equality, environment, human values and professional ethics:

- Equal opportunities in terms of admissions, employment, training programmes, sports activities etc.,.
- Women faculty and students are members in clubs such as sports club, singing club etc.. they participate in programmes of women empowerment etc.
- Curriculum includes courses on Professional Ethics, human rights and Environmental Science .
- Structured feedback received from students, teachers, etc on design and review of syllabus.

Teaching-learning and Evaluation

- Average enrolment percentage is 48.64%
- Special programs arranged for advanced learners and slow learners after due assessment.
- Student-full time teacher ratio is 1:15
- Percentage of differently abaled students on rolls is 0.063%
- Student-centric methods applied for enhancing learning experiences.
- Average percentage of teachers using ICT for effective teaching with LMS, e-learning resources etc., is 87.1%
- Each mentor on an average has approximately 20 students under his care for academic and stress related counselling.
- Smart Class rooms, EDC cell project activities and industrial visits contribute to innovation and creativity in teaching- learining.
- Among the sanctioned posts, 100 % are full time teachers.
- Average percentage of full time teachers with Ph.D is 3.51%
- Average teaching experience of full time teachers is 6 years
- 0.13% of full time teachers are from other states.
- Continuous Internal Evaluation system is subject to reforms.
- Mechanism of internal assessment is transparent and robust.
- Mechanism to deal with examination-related grievances is transparent, time-bound and efficient.
- Teachers and students are made well aware of program outcomes and course outcomes.
- The Institution evaluates the attainment of these outcomes.
- Average pass percentage of students is75 %
- Online student satisfaction survey with regard to teaching learning process is performed

Research, Innovations and Extension

The Institution has in place an ecosystem for innovation and other initiatives for creation and transfer of knowledge.

- A Research Advisory Committee consisting of The Principal, Head (R&D) and other senior professors from various departments, guides and monitors the initiation and progress of research.
- Workshops/seminars conducted on Intellectual Property Rights and Industry-Academia innovative practices.
- The Institution has a stated code of ethics to check malpractices and plagiarism in research.
- Incentives awarded to teachers who receive state, National and International Recognition.
- 12 different extension activities conducted by NSS leading to a notable impact on the community as well as participating students regarding social issues.
- 05 functional MOU's with on-going activities with Institutions of national and international importance.

Infrastructure and Learning Resources

Adequate facilities for teaching-learning are available as given below:

- 44 classrooms
- 65 labs
- 02 seminar halls
- 2 smart classrooms
- 1 auditorium
- 1 video conferencing room
- 1 workshop
- 3 drawing halls
- 1 research lab
- 7 Computer Centres
- 1 Central Library.
- 1 digital library
- Courts, playgrounds for various games inclusive of Cricket, Football, Basketball, Volleyball etc. as well as a track-field for athletics have been established .
- Well-facilitated Gymnasium set up in the Campus.
- Provision of rooms for practice of cultural activities.
- Library automated by Integrated Library Management System (ILMS), has a total collection of 22320 books, 62printed journals and 5 packages of on-line journals.
- Remote access available to the e-resources in the library .
- Per day usage of library by teachers and students is 14.7%.
- More than 10 WiFi hotspots with extenders covering the entire college area.
- IT facilities including WiFi are periodically updated.
- Computer-Student ratio is 1:4.
- Leased line Internet Connectivity has a bandwidth of 70 Mbps.
- Established systems and procedures available for maintaining and utilizing physical, academic and support facilities.

Student Support and Progression

- 76.1% of students per year benefitted through the scholarships from the government and 8.58% of students per year through the scholarships from the Institution.
- 18.77% of students benefitted through guidance for competitive examinations and career counseling.

- Two agencies help in soft skill development for students enrolled each year.
- Remedial coaching provided for slow learners, students of telugu medium and vocational stream.
- Language lab helps in improving students' communicative English.
- Bridge Courses conducted in Mathematics and English.
- Personal counselling is a core activity of every teaching staff as a mentor.
- Transparent mechanism for timely redressal of student grievances
- An average of 13.96% of outgoing students get placements and 24.39% of students progress towards higher education.
- An average of 18.33% of students qualify in GATE, GMAT, CAT, GRE, TOEFL etc. More than 50 awards won for outstanding performances in Sports/cultural
- events at national/International levels
- Student council formed each year comprising of one student representative from each department which plans and organises activities
- Alumni meet annually to share their views and give suggestions
- Alumni help their juniors in terms of projects, internships and placements.

Governance, Leadership and Management

The Director guides the administrative team to work in consonance with the Mission and Vision of the Institution.

- The Governing Council meet periodically to monitor progress and suggest strategies.
- The Principal and the HODs periodically meet to take decisions on academic matters.
- The HOD decides on the activities of the department and delegates responsibilities to the faculty.
- Staff and students permitted to give suggestions- an example of participative management.
- Steady growth of infrastructure - an example of perspective/strategic plan.
- Utilisation of other teaching aids like LCD projectors etc.,
- Community service by NSS in adopted villages as well as Blood donation camps, Medical checkups, Awareness rallies.
- Effectiveness of various committees in the implementation of minutes evidenced.
- Welfare measures for teaching and non-teaching staff like cash awards, sponsorships, incentives, etc.,.
- programmes arranged per year for professional development of staff .
- Teachers provided with financial support for attending conferences etc.
- Performance appraisal system in place .
- The IQAC focuses on the continuous improvement of the examination system.
- Quality of student projects improved by implementing suggestions by the IQAC .Quality Assurance Initiatives in place.
- Incremental improvements in quality listed.

Institutional Values and Best Practices

- 7 gender-equity promotion programmes organized .
- Exclusive club for sensitizing both staff and students.
- 33.91% of lighting power met by LED bulbs.
- The issues of waste production and disposal efficiently managed.
- Rain-water Harvesting system in place.

- Friendly options are available for the differently-abled.
- Major initiatives taken up to address locational advantages and disadvantages.
- Code of conduct-book exists for all.
- Activities like those of NSS etc contribute in the inculcation of human values .
- In MENTORING SYSTEM, students are assigned to faculty members to keep track of their progress and to counsel them periodically.
- The Institution aims to focus on futuristic demands of the society as well as the holistic development of the student.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	SAI TIRUMALA NALABOTHU VENKATA RAO ENGINEERING COLLEGE
Address	Sai Tirumala Nalabothu Venkata Rao Engineering college, Oppo - Sai Baba Temple, Jonnalagadda Village, Narasaraopet Guntur dist, Andhra Pradesh , 522601
City	NARASARAOPET
State	Andhra Pradesh
Pin	522601
Website	www.saitirumalanvr.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Nallamaddi R Maddi Reddy	08647-224086	9441025112	08647-221152	principalstirumala@gmail.com
IQAC / CIQA coordinator	Naga Raju J	08647-221153	9849937850	08647-221154	jajamsri123@yahoo.co.in

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minroity institution	No

Establishment Details

Date of establishment of the college	28-08-2007

University to which the college is affiliated/ or which governs the college (if it is a constituent college)

State	University name	Document
Andhra Pradesh	Jawaharlal Nehru Technological University,Kakinada	View Document

Details of UGC recognition

Under Section	Date	View Document
2f of UGC		
12B of UGC		

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	10-04-2018	12	

Details of autonomy

Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No

Recognitions

Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	Yes
If yes, name of the agency	Central Vigilance commission
Date of recognition	16-11-2017

Location and Area of Campus				
Campus Type	**Address**	**Location***	**Campus Area in Acres**	**Built up Area in sq.mts.**
Main campus area	Sai Tirumala Nalabothu Venkata Rao Engineering college, Oppo - Sai Baba Temple, Jonnalagadda Village, Narasaraopet Guntur dist, Andhra Pradesh , 522601	Rural	12.97	18539

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	**Name of Programme/Course**	**Duration in Months**	**Entry Qualification**	**Medium of Instruction**	**Sanctioned Strength**	**No.of Students Admitted**
UG	BTech,Computer Science And Engineering	48	INTERMEDIATE	English	120	115
UG	BTech,Electronics And Communication Engineering	48	INTERMEDIATE	English	180	112
UG	BTech,Civil Engineering	48	INTERMEDIATE	English	60	10
UG	BTech,Electrical And Electronics Engineering	48	INTERMEDIATE	English	60	7
UG	BTech,Mechanical Engineering	48	INTERMEDIATE	English	60	16
PG	Mtech,Computer Science And Engineering	24	B.TECH	English	18	1

PG	Mtech,Electronics And Communication Engineering	24	B.TECH	English	18	0
PG	Mtech,Power And Industrial Drives	24	B.TECH	English	18	5
PG	Mtech,Vlsi Design	24	B.TECH	English	18	3
PG	MBA,Master Of Business Administration	24	UNDERGRADUATE	English	120	68

Position Details of Faculty & Staff in the College

	Teaching Faculty											
	Professor				**Associate Professor**				**Assistant Professor**			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				9				29				76
Recruited	9	0	0	9	22	7	0	29	59	17	0	76
Yet to Recruit				0				0				0
Sanctioned by the Management/Society or Other Authorized Bodies				9				29				76
Recruited	9	0	0	9	22	7	0	29	59	17	0	76
Yet to Recruit				0				0				0

Non-Teaching Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				70
Recruited	47	23	0	70
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				70
Recruited	47	23	0	70
Yet to Recruit				0

Technical Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				20
Recruited	18	2	0	20
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				20
Recruited	18	2	0	20
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers									
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	17	0	0	0	0	0	0	0	0	17
M.Phil.	0	0	0	4	0	0	0	0	0	4
PG	0	0	0	21	8	0	91	27	0	147
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers									
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualificatio n	**Professor**			**Associate Professor**			**Assistant Professor**			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/ LLD/DM/M CH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	**Male**	**Female**	**Others**	**Total**
	2	0	0	2

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		**From the State Where College is Located**	**From Other States of India**	**NRI Students**	**Foreign Students**	**Total**
UG	Male	719	1	0	0	720
	Female	604	0	0	0	604
	Others	0	0	0	0	0
PG	Male	151	0	0	0	151
	Female	112	0	0	0	112
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years

Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	8	26	29	43
	Female	10	7	12	5
	Others	0	0	0	0
ST	Male	4	7	5	7
	Female	1	4	3	1
	Others	0	0	0	0
OBC	Male	52	75	99	75
	Female	37	63	44	24
	Others	0	0	0	0
General	Male	111	129	151	115
	Female	114	190	179	104
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		337	501	522	374

Extended Profile

1 Program

1.1

Number of courses offered by the institution across all programs during the last five years

Response: 498

File Description	Document
Institutional Data in Prescribed Format	View Document

1.2

Number of programs offered year-wise for last five years

2017-18	2016-17	2015-16	2014-15	2013-14
10	10	10	12	12

2 Students

2.1

Number of students year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1302	922	752	758	998

File Description	Document
Institutional Data in Prescribed Format	View Document

2.2

Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
234	234	234	276	276

File Description	Document
Institutional data in prescribed format	View Document

2.3

Number of outgoing / final year students year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
142	121	302	424	451

File Description	Document
Institutional Data in Prescribed Format	[View Document](#)

3 Teachers

3.1

Number of full time teachers year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
155	155	155	183	183

File Description	Document
Institutional Data in Prescribed Format	[View Document](#)

3.2

Number of sanctioned posts year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
155	155	155	183	183

File Description	Document
Institutional data in prescribed format	[View Document](#)

4 Institution

4.1

Total number of classrooms and seminar halls

Response: 44

4.2

Total Expenditure excluding salary year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
476.29190	394.02637	358.90846	230.13582	270.39878

4.3

Number of computers

Response: 552

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The institution ensures effective curriculum delivery through a well planned and documented process

Response:

The College is affiliated to JNTUK,Kakinada and the curriculum and syllabi prescribed by the university are strictly adhered to. Apart from this prescribed curriculum, the College has strategized ways and means to strengthen the teaching-learning process in the following ways: Advance planning of Academic activities and calendar in line with the University issued Calendar of Events Formulation of objective driven teaching plan at the beginning of the semester. Preparation of adequate learning materials (resources), Updated library facilities with e-journals ,Maintenance of course files by all faculty members which contains lesson plan, notes of lesson, question bank and performance details of the students. Adopting new and innovative teaching techniques such as employing learner-centered techniques, web-oriented assignments, peer learning, group discussions, use of NPTEL lectures, case studies, projects, surveys, quiz etc… to make the students to actively participate in the process of learning. To meet the challenges in technical environment, the institution organizes contemporary video discussion shows for each Engineering discipline, well planned in advance. Videos depicting the latest technologies are displayed to the students. The students are allowed to discuss, deliberate and innovate ideas within themselves and also with the staff members. Entrusting the teaching faculty with the task of mentoring 15 students on academic and personal issues, thereby strengthening the bond between teachers and students, leading to a better learning atmosphere and to sustain their performance. Organizing beneficial guest lecturers to the students by industry experts/ academicians and arranging industrial visits to improve the effectiveness of implementation of the curriculum designed and specified by JNTUK, Kakinada. Course allotment based on competency matrix, experience and performance in previous years. Time table framed with provision for Value Added Programmes (VAP), seminar and library hours. The Head of the department and the Principal do a periodical review of the portions covered by the staff members and also the student's attendance. Monitoring of course delivery and syllabus completion through formal and informal feedbacks. Systematic examination process, standard question papers, proper and prompt evaluation and dispatch of reports to parents. Guest lectures, seminars, Industrial visits and training programmes to supplement the curricular inputs. Refresher courses, workshops, FDPs for skill up gradation of faculty. Provision of infrastructure facility Motivating students for doing research work and present papers in seminars and conferences and publish in journals. Bridging Industry –Institution gap with suitable value added programmes which are part of the regular time table.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

1.1.2 Number of certificate/diploma program introduced during the last five years

Response: 19

1.1.2.1 **Number of certificate/diploma programs introduced year-wise during the last five years**

2017-18	2016-17	2015-16	2014-15	2013-14
4	6	3	4	2

File Description	Document
Details of the certificate/Diploma programs	[View Document]()
Any additional information	[View Document]()

1.1.3 Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years

Response: 7.82

1.1.3.1 Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
3	3	3	2	2

File Description	Document
Details of participation of teachers in various bodies	[View Document]()

1.2 Academic Flexibility

1.2.1 Percentage of new Courses introduced out of the total number of courses across all Programs offered during last five years

Response: 0.4

1.2.1.1 How many new courses are introduced within the last five years

Response: 02

File Description	Document
Minutes of relevant Academic Council/BOS meetings.	[View Document](#)
Details of the new courses introduced	[View Document](#)

1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented

Response: 100

1.2.2.1 Number of programmes in which CBCS/ Elective course system implemented.

Response: 10

File Description	Document
Name of the programs in which CBCS is implemented	[View Document](#)
Minutes of relevant Academic Council/BOS meetings.	[View Document](#)
Any additional information	[View Document](#)

1.2.3 Average percentage of students enrolled in subject related Certificate/ Diploma programs/Add-on programs as against the total number of students during the last five years

Response: 15.31

1.2.3.1 Number of students enrolled in subject related Certificate or Diploma or Add-on programs year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
300	186	105	99	63

File Description	Document
Details of the students enrolled in Subjects related to certificate/Diploma/Add-on programs	[View Document](#)

1.3 Curriculum Enrichment

1.3.1 Institution integrates cross- cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum

Response:

Equal opportunities are given to both the genders in terms of admissions, employment, training programmes, sports activities etc., and so gender issues do not arise. College supports women faculty and students to become member in clubs such as sports, dancing, singing, Technical , and encourages them to participate in events focusing on women empowerment and promoting leadership qualities in women. Women's day is celebrated with vigor in the institution campus. Each year, two best girl students are selected from each department and they are suitably awarded and rewarded by an eminent personality. Girls and boys participate in various co-curricular activities such as paper presentations, organization of paper contests, group discussions and technical quiz programmes. Both boys and girls are made members of various clubs associated with academic, co-curricular and extracurricular activities. Students have a mandatory course on Environmental Science and Engineering. Topics related to these issues are taken up for quiz and debates during the National Science Day, Earth Day celebrations and the Independence Day function. Students are encouraged to participate in activities on climate change organized by other institutes. They are taken for industrial visits and effluent and water treatment plants and places that will educate them on environmental issues. Awareness programmes are initiated by NSS, Environment Club which extensively carry out activities for environmental protection and ecological preservation. The curriculum includes courses on professional ethics and Intellectual Property Rights (IPR) and human rights.

Environmental Science and Engineering

- To study the nature and the facts about environment.
- To find and implement scientific, technological, economic and political solutions to environmental problems.
- To study the interrelationship between living organism and environment.
- To appreciate the importance of environment by assessing its impact on the human world;
- Envision the surrounding environment, its functions and its value.
- To study the dynamic processes and understand the features of the earth's interior and surface. To study the integrated themes and biodiversity, natural resources, pollution control and waste management.

File Description	Document
Link for Additional Information	[View Document](#)

1.3.2 Number of value added courses imparting transferable and life skills offered during the last five years

Response: 5

1.3.2.1 Number of value-added courses imparting transferable and life skills offered during the last five years

Response: 5

File Description	Document
Details of the value-added courses imparting transferable and life skills	[View Document](#)
Brochure or any other document relating to value added courses.	[View Document](#)

1.3.3 Percentage of students undertaking field projects / internships

Response: 73.5

1.3.3.1 Number of students undertaking field projects or internships

Response: 957

File Description	Document
List of students enrolled	[View Document](#)
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)

1.4 Feedback System

1.4.1 Structured feedback received from 1) Students, 2)Teachers, 3)Employers, 4)Alumni and 5)Parents for design and review of syllabus-Semester wise/ year-wise

Response: A.Any 4 of the above

File Description	Document
Any additional information	[View Document](#)
URL for stakeholder feedback report	[View Document](#)

1.4.2 Feedback processes of the institution may be classified as follows:

Response: B. Feedback collected, analysed and action has been taken

File Description	Document
Any additional information	[View Document](#)
URL for feedback report	[View Document](#)

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average percentage of students from other States and Countries during the last five years

Response: 0

2.1.1.1 Number of students from other states and countries year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
List of students (other states and countries)	[View Document](#)
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)

2.1.2 Average Enrollment percentage (Average of last five years)

Response: 48.64

2.1.2.1 Number of students admitted year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
505	525	376	192	77

2.1.2.2 Number of sanctioned seats year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
672	672	672	792	792

File Description	Document
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)

2.1.3 Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years

Response: 53.22

2.1.3.1 Number of actual students admitted from the reserved categories year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
168	192	155	87	40

File Description	Document
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners

Response:

After the students got admitted to our institution, orientation programs are organized for the fresher's to help them understand the engineering curriculum. Introductory lectures for all the subjects are devoted to discuss and understand special needs of the students. Students are categorized based on their previous qualifying examinations marks, assessment test, class room performances and personal performance. Assessing the students based on internal examinations helps to identify slow learners and quick learners.

If the students are slow in their learning process, the mentor who is acting as the guide and philosopher finds the nature of their problems and motivates them in a friendly way to reach particular academic goals. To improve on their academic performance, extra classes with separate time table are organized to clarify the doubts and reviewing of tough topics once again.

Quick learners are identified through their performance in examinations. They are motivated by the Principal and the heads of the concerned departments to perform better in the University examinations and to score good grades and thereby maintaining the consistent performance and to bag quality university ranks.

The institute promotes independent learning facilities that contribute to their academic and personal growth. For example, the institute encourages them to participate in various activities like seminars, workshops, and literary competitions. The institute provides equal weightage to both curricular and co-curricular & extra-curricular activities.

The above process brings out the following outcome:

- Students' understanding in their chosen domain
- Improved results and pass percentage.
- Improved quality of projects.
- Improved placements and opting for higher studies.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

2.2.2 Student - Full time teacher ratio

Response: 42:5

2.2.3 Percentage of differently abled students (Divyangjan) on rolls

Response: 0.08

2.2.3.1 Number of differently abled students on rolls

Response: 1

File Description	Document
List of students(differently abled)	[View Document](#)
Institutional data in prescribed format	[View Document](#)
Any other document submitted by the Institution to a Government agency giving this information	[View Document](#)

2.3 Teaching- Learning Process

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

Response:

Since our college is affiliated to JNTUK, University Kakinada, our role in the curriculum design is very little. However, the College takes all measures to groom the students to be responsible citizens of our Mother Nation.Tutorial classes are conducted which supplement regular teaching learning process. Multimedia teaching aids like videos, online materials and PPTs are incorporated in the day-to-day teaching learning process that enhances the students' understanding of the subject. A separate video hall has been established to screen technological videos to the students. The videos to be screened is decided by the students in consultation with the faculty members and approved by the HOD and the Principal. Guest

lectures by experts from the industry and academia are organized by the respective departments, to provide knowledge beyond the prescribed syllabus. Webinars from experts outside personnel that augments the students to enhance their knowledge and skills are organized regularly in our college. As a part of the curriculum, Communication Language laboratory has been established for students to improve their English proficiency. In addition, Soft skills training slots are incorporated in the timetable, wherein the students are guided by the experts, in improving the presentation and communication skills. Students are encouraged to organize and to participate in Inter-collegiate events such as symposium,project contests to bring out the potential of the students. Our students are organizing Project Expo for the past six years and they continue to do the same. Industrial visits and value added courses are arranged to give hands-on experience to the students. Our campus is enabled with Wi-Fi facility that allows students to access technical resources. In addition to academics, to be a socially responsible citizen, our college encourages the students to participate in NSS activities with equal enthusiasm to develop their overall personality. The college has a state of art central library well equipped with books & e-books, technical magazines, journals & e-journals and NPTEL lecture videos which serves as a knowledge resource centre.

The students and faculty are motivated to register for online NPTEL Certificate courses in addition to their regular curriculum. The management reimburses 50% of the examination fees if they score more than 80% and 100% reimbursement for those who score more than 90%.The teachers are encouraged to use modern teaching pedagogy, in addition to conventional classroom teaching practices.Laboratories with Internet Connection permit the students to widen their knowledge and skills. Faculty members apply teaching methods such as group discussions, seminars/ student presentation for better understanding of concepts/ technologies.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

2.3.2 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc.

Response: 87.1

2.3.2.1 Number of teachers using ICT

Response: 135

File Description	Document
List of teachers (using ICT for teaching)	[View Document](#)
Provide link for webpage describing the " LMS/ Academic management system"	[View Document](#)

2.3.3 Ratio of students to mentor for academic and stress related issues

Response: 641:32

2.3.3.1 Number of mentors

Response: 65

2.3.4 Innovation and creativity in teaching-learning

Response:

An innovative effort of an institution helps in its academic excellence. An innovative practice could be a pathway created to further the interest of the student and the institution, for internal quality assurance, inclusive practices and stakeholder relationships. The teacher uses multimedia to modify the contents of the course material. It helps him/her to represent in a more meaningful way, using different media elements. Apart from regular lectures through chalk-and- talk following innovative teaching approaches are being practiced in various departments. LCD projector screens / Overhead projectors help the faculty to deliver interactive lectures and demonstrations of animations/ PPT / lecture contents. Laboratories with Internet Connection allow the students to widen their knowledge and skills. Some of the experiments during practical are also getting conducted using simulation tools. Charts and models are used by the faculty to explain the fundamental topics and advance technologies, in theoretical and practical sessions.

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 100

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	[View Document](#)

2.4.2 Average percentage of full time teachers with Ph.D. during the last five years

Response: 3.51

2.4.2.1 Number of full time teachers with Ph.D. year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
8	6	9	5	0

File Description	Document
List of number of full time teachers with PhD and number of full time teachers for 5 years	[View Document](#)

2.4.3 Teaching experience per full time teacher in number of years

Response: 7.72

2.4.3.1 Total experience of full-time teachers

Response: 1196

2.4.4 Percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years

Response: 0

2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
Institutional data in prescribed format	[View Document](#)

2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the last five years

Response: 0.39

2.4.5.1 Number of full time teachers from other states year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1	1	1	0	0

File Description	Document
List of full time teachers from other state and state from which qualifying degree was obtained	[View Document](#)

26-08-2022 12:32:42

2.5 Evaluation Process and Reforms

2.5.1 Reforms in Continuous Internal Evaluation(CIE) system at the institutional level

Response:

The department will carry out internal assessment on all subjects based on internal test performance of the students. Continuous evaluation procedure is followed for practical subjects.Effective implementation of evaluation reform of the university are strictly followed and those initiated by its own are ensured by the institution by strict compliance of process and procedure devised/ suggested by the university in order to follow the continuous evaluation system. The Institute has taken following measures for the effective implementation of the evaluation reforms introduced by the University: The Institute has exam coordinators from each department for smooth conduction of the examination. The examination committee meets periodically to discuss all the examination related matters. At Institute level, effective implementation of tutorial and mid-sem test takes place and results are declared within eight days. The students can see their evaluated answer sheets and discuss the same with concerned faculty. Term test is based on the university syllabus. This will be in the form of questions of graded nature. Theory questions and numerical questions are also included.All the data are collected and stored in digital format for recovery/reference purpose. Final year term work is jointly evaluated by external examiners. Viva and oral are conducted with the current topics with the relevant academicians and industry people to give an exposure to the students of the various disciplines. Practicals are conducted based on the syllabus prescribed by the JNTUK university.

For smooth conduction of University theory examination, an internal squad comprising of senior faculty members are appointed. The evaluation processes are automated through intranet facilities. The faculty enters attendance and marks of the students periodically. The credit system for each course is introduced for UG degrees. The Institute appoints examiners for the practical examinations and viva voce examinations as per the University directives The Institute sends its faculty members as examiners to evaluate semester answer scripts to the affiliating University. The regulations, curricula and syllabi of all the programmes offered by the Institute are available in the Institute and the affiliated University websites. The regulations contain the details of the evaluation process. The Officer-In-Charge of the Examination Cell of the Institute has prepared an Instruction Manual as per the guidelines of the Controller of Examination of JNTUK University to conduct of examinations and copies are available to all departments. During the Induction program the newly admitted students are updated about the attendance requirements as well as the pass mark requirements and the grading systems for the internal assessments. Whenever the students are in doubt, they are encouraged to clarify them by discussing with the teachers/principal.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

2.5.2 Mechanism of internal assessment is transparent and robust in terms of frequency and variety

Response:

The internal marks are based on the cycle test, model exams and attendance percentage. Internal marks and attendance are periodically communicated (SMS) to the parents. The answer scripts of examinations are shown to the students after evaluation to bring out the discrepancies, if any, to the notice of teacher concerned, and the necessary corrections are carried out. The students are made aware of the evaluation procedures including revaluation and challenge valuation, examination pattern of college and the university, well in advance through circulars as well as information printed in the college calendar.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

2.5.3 Mechanism to deal with examination related grievances is transparent, time-bound and efficient

Response:

On the Induction Day, the first year students are made aware of the evaluation processes.The university allots 70% marks for the end semester exams and 30% internal marks.The marks in the internal tests are uploaded in JNTUK,University web portal.Attendance is entered periodically in the JNTUK,University web portal.During Parent-teachers meeting, parents are made aware of accessing the students' marks from the JNTUK, university web portal.The class teachers carefully monitor the regularity of attendance and the performance of the students in internal evaluation tests and end semester examinations.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

2.5.4 The institution adheres to the academic calendar for the conduct of CIE

Response:

An academic calendar is prepared by the institute as explained below: Academic year starts as prescribed by JNTUK, University. The university publishes in advance, the academic calendar containing plans for curricular and co-curricular activities based on the available working/teaching days as per university norms. Student council of the college responsible for making the academic calendar prepares the College academic calendar in concurrence with the University calendar. Approval for the same is given by heads of departments and the Principal after effecting minor changes if required . The academic calendar is then

made known to all faculty before the commencement of the semester. Lesson plans are then prepared based on the academic calendar. Academic calendar of the Institute includes schedule of curricular activities, assessment dates, technical events, class tests, submission of mark lists, list of holidays and extra curricular activities. Students are then informed about time table and academic calendar. The detailed lesson plan/teaching methodology as suited to syllabus is prepared by each faculty before start of the semester. The lesson plan comprises of content, learning aid and methodology, faculty approach and course outcomes. The lesson plan generally highlights the content and total lectures for completion of the curriculum. Monitoring of implementation of lesson plan is done by Heads of the departments and corrective actions are suggested wherever required.

The laboratory Schedule is prepared by the concerned faculty and batch-wise details are specified in laboratory schedule. Time Table of regular lectures for the semester is prepared and displayed on the notice board and website. There is an academic monitoring committee appointed by the Principal/HOD who monitors the day- to- day evaluation of the laboratories is being done as per the time table.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the Institution are stated and displayed on website and communicated to teachers and students

Response:

PROGAMME EDUCATIONAL OBJECTIVES (PEO 's)

1.Preparation: The learners of computer Science and Engineering can be able to apply the knowledge of Mathematics, Applied Science, Computing, Basic Engineering field to identify, analyze, formulate, design, simulate and develop the practical solutions for hardware and software problems in industry and academia.

2. Core Competence: To enable the learners with core curriculum knowledge in theory and practical experiments of computer Science and Engineering to develop the innovative skills in design, simulation, investigation of complex problems, critical reasoning, development and testing knowledge for offering solutions to real life problems related to globally evolving techno-corridor requirements of computer Science and Engineering Field.

3. Breadth Knowledge: To provide the learners with breadth knowledge to build the Computer Science and engineering professionals to have the team work and skills for developing communicative abilities, lifelong learning, and aptitude of project management, finance with entrepreneurial values for rural development.

4. Advanced Professional knowledge: To practice using a system of multi-faceted, multi-disciplinary

approach to develop R&D skills by MOUs with premier industries and institutions interacting with training sessions and industrial visits for the learners to have awareness on the latest trends, Modern software tools and programming techniques of Computer Science and Engineering to cater the escalating needs of society.

5. Career Development and ethics: To build the learners with the aptitude of competitive knowledge of real time requirement of cutting edge technologies by promoting employability and higher education with a blend of ethical, social and eco-friendly.

PROGRAM SPECIFIC OUTCOMES (PSO's)

PSO1: Ability to design and develop applications using various software tools.

PSO2: The learners will be able to develop the knowledge of the competitive environment in success of globally acclaimed tests like GRE, TOEFL, IELTS, IES, GMAT, CAT, PSUs, and GATE etc.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

2.6.2 Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution

Response:

The institute follows student centric education system in which the focus is laid on what the students areexpected to be able to demonstrate at the end of a module or program or we can say after the learningperiod.

Teaching Learning Process cycle consists of three phases, namely, Planning Phase, Action Phase and lastlythe Measure and Analysis phase. The first one being the Planning phase the course Outcome andObjectives are set and the curriculum is designed. Also the method of assessment and schedule ofassessment is done.

The second phase is an Action phase, where content delivered the question paper for assessment is drawnand internal assessments are conducted and evaluation is done.

In the third phase, Measure and Analysis phase, based on the marks obtained by the students we need tomeasure the COs and POs attainment, analyze and take appropriate actions so that there is a continuousimprovement. There are two methods for measurement of attainment of outcomes, one is the direct method and another is an indirect method of assessment. The method proposed pertains to the direct method, whereanalysis done is based on the Marks obtained by students across the whole class for that

course.

File Description	Document
Link for Additional Information	<u>View Document</u>

2.6.3 Average pass percentage of Students

Response: 75

2.6.3.1 Total number of final year students who passed the examination conducted by Institution.

Response: 120

2.6.3.2 Total number of final year students who appeared for the examination conducted by the institution

Response: 160

File Description	Document
Institutional data in prescribed format	<u>View Document</u>

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.73

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants for research projects sponsored by government/non government sources such as industry ,corporate houses, international bodies, endowment, chairs in the institution during the last five years (INR in Lakhs)

Response: 0

3.1.1.1 Total Grants for research projects sponsored by the non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year-wise during the last five years(INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
List of project and grant details	[View Document](#)
Any additional information	[View Document](#)

3.1.2 Percentage of teachers recognised as research guides at present

Response: 0

3.1.2.1 Number of teachers recognised as research guides

3.1.3 Number of research projects per teacher funded, by government and non-government agencies, during the last five year

Response: 0

3.1.3.1 Number of research projects funded by government and non-government agencies during the last five years

3.1.3.2 Number of full time teachers worked in the institution during the last 5 years

Response: 831

File Description	Document
Any additional information	[View Document](#)

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations including incubation centre and other initiatives for creation and transfer of knowledge

Response:

Our Institution is located in an eco friendly campus and our management encourages staff and students to carry out research projects that give practical solutions to problems which causes hazard to the environment.

Seed Money: We provide limited seed money to our HOD's .

In Campus Accommodation: We provide in campus accommodation to our Incubates in the campus itself. We provide them with comfortable accomidation.

Business Plan development: The students of MBA program of **SAI TIRUMALA NVR ENGINEERING COLLEGE** along with a management consultant help incubate companies to strengthen their business plan after conducting market surveys, if required, and financial plan.

Business Promotion: SAI TIRUMALA NVR ENGINEERING COLLEGE helps finding business partners & venture capitalists and provide consultancy on business promotion with the help of the MBA students & faculty.

Library and Documentation: The Incubates through our centre can have access to the library of **SAI TIRUMALA NVR ENGINEERING COLLEGE** at very nominal charges.

Advertisement Agencies: We have several links to the advertisement agencies, which help the companies at our centre to advertise themselves.

Legal experts: We have a panel of highly qualified legal experts which advise the companies at our centre in their legal matters.

File Description	Document
Link for Additional Information	[View Document](#)

3.2.2 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the last five years

Response: 5

3.2.2.1 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
2	1	1	1	0

File Description	Document
Report of the event	[View Document]
List of workshops/seminars during the last 5 years	[View Document]

3.3 Research Publications and Awards

3.3.1 The institution has a stated Code of Ethics to check malpractices and plagiarism in Research

Response: Yes

File Description	Document
Institutional data in prescribed format	[View Document]
Any additional information	[View Document]

3.3.2 The institution provides incentives to teachers who receive state, national and international recognition/awards

Response: No

3.3.3 Number of Ph.D.s awarded per teacher during the last five years

Response: 0

3.3.3.1 How many Ph.Ds awarded within last five years

Response: 01

3.3.3.2 Number of teachers recognized as guides during the last five years

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	[View Document]
Any additional information	[View Document]

3.3.4 Number of research papers per teacher in the Journals notified on UGC website during the last five years

Response: 0.14

3.3.4.1 Number of research papers in the Journals notified on UGC website during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
13	4	2	3	1

File Description	Document
List of research papers by title, author, department, name and year of publication	[View Document](#)
Any additional information	[View Document](#)

3.3.5 Number of books and chapters in edited volumes/books published and papers in national/international conference proceedings per teacher during the last five years

Response: 0

3.3.5.1 Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
List books and chapters in edited volumes / books published	[View Document](#)

3.4 Extension Activities

3.4.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years

Response:

We at SAI TIRUMALA NVR ENGINEERING COLLEGE not only excel in academics but also in other extension activities. The NSS of the college actively take part in various activities organized by the government. The NSS wing of the college has organised seven day special camp from 25th January 2013 to 31 January 2013. 110 students participated in this special camp. A blood donation camp was organised on 4th of March 2013. More than 200 students participated as NSS volunteers for this mega event. NSS has been organising various events like reaching the unreached, awareness seminar on commonest infections, rallies on illicit arrack, Road safety awareness at Narasaraopet. The rally was on 15th of June

2014 and the Road safety awareness program was conducted on 23rd and 24th of September 2014. Special seven day camp was organised by NSS from 24th of January 2015 to 30th of January 2015. Nearly 110 students participated in this camp. Go Green project rally was widely appreciated by the public. This event was conducted effectively by the NSS wing of the college on 24 July 2016. About 200 students and staff participated in this event. A tree plantation programme was conducted by NSS on 27 July 2017. Cancer awareness programme was conducted on fourth of February 2018.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

3.4.2 Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years

Response: 5

3.4.2.1 Total number of awards and recognition received for extension activities from Government /recognised bodies year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
3	1	1	0	0

File Description	Document
Number of awards for extension activities in last 5 years	[View Document](#)
Any additional information	[View Document](#)

3.4.3 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the last five years

Response: 39

3.4.3.1 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
8	16	10	1	4

File Description	Document
Number of extension and outreach programs conducted with industry,community etc for the last five years	View Document
Any additional information	View Document

3.4.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

Response: 25.17

3.4.4.1 Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
156	414	442	21	74

File Description	Document
Average percentage of students participating in extension activities with Govt or NGO etc	View Document
Any additional information	View Document

3.5 Collaboration

3.5.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years

Response: 11

3.5.1.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
5	3	2	1	0

File Description	Document
Number of Collaborative activities for research, faculty etc	[View Document]()
Copies of collaboration	[View Document]()
Any additional information	[View Document]()

3.5.2 Number of functional MoUs with institutions of National/ International importance, Other Institutions, Industries, Corporate houses etc., during the last five years (only functional MoUs with ongoing activities to be considered)

Response: 3

3.5.2.1 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years (only functional MoUs with ongoing activities to be considered)

2017-18	2016-17	2015-16	2014-15	2013-14
3	0	0	0	0

File Description	Document
e-copies of the MoUs with institution/ industry/ corporate house	[View Document]()
Details of functional MoUs with institutions of national, international importance,other universities etc during the last five years	[View Document]()
Any additional information	[View Document]()

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The institution has adequate facilities for teaching- learning. viz., classrooms, laboratories, computing equipment, etc.

Response:

The vision of the college is to continuously improve the students learning with constant and consistent effort by providing infrastructure that is on par with the prestigious institutions of India. The college is actively working to impart and improve the quality of the knowledge of the students in learning. Our policy allows us to be flexible and adapt to the current needs of our students so that we are able to bring the best out of them. The college is constructing a digital library, an R&D cell to satisfy the aforementioned need.

The college also organizes several seminars, talks, workshops, faculty development programmes related to emerging technologies to keep everyone in college updated in their respective fields. We thoroughly believe in learning through a visual medium and this led to the construction of one video presentation halls (with a capacity of about 200).

The campus is spread over an area of 12.97 acres with a plinth area of 18539 sq.m. comprising buildings of high-standard, classrooms with proper ventilation, numerous laboratories, auditorium, smart classrooms, library, indoor and outdoor stadiums. Restrooms are provided at regular intervals in each corridor.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

4.1.2 The institution has adequate facilities for sports, games (indoor, outdoor),gymnasium, yoga centre etc., and cultural activities

Response:

Sports facilities have been established for various games inclusive of Cricket, Football, Volleyball to ensure the focus of the institute in providing extra-curricular activities to the students. Separate and spacious hostels are provided for both boys and girls from various regions of the nation.

Sports Complex (Indoor Stadium)

Chess

Shuttle Badminton

Table Tennis

Carom

Gymnasium:

Weight lifting

Dumbbell sets

Pull up bars

Squat stations

Extra Curricular Activities

The college organizes events related to NSS There are nearly 6 different clubs pertaining to various topics of interest ranging from Adventure to Health club to Robotics and others.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

4.1.3 Percentage of classrooms and seminar halls with ICT - enabled facilities such as smart class, LMS, etc

Response: 31.82

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 14

File Description	Document
Number of classrooms and seminar halls with ICT enabled facilities	[View Document](#)
any additional information	[View Document](#)
Link for additional information which is optional	[View Document](#)

4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years.

Response: 99.89

4.1.4.1 Budget allocation for infrastructure augmentation, excluding salary year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
476	394	358	230	270

File Description	Document
Details of budget allocation, excluding salary during the last five years	[View Document](#)
Audited utilization statements	[View Document](#)

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS)

Response:

The college has central library and five departmental libraries. There is an Open Access Catalogue for students and staff. The reading room is well furnished to accommodate students at a time and provides Good environment for study. Exclusive reference section is available in the library. A visitor's book is maintained for students and staff. New arrivals of books and journals are displayed on separate stands and racks. Each student gets Security of resources is ensured through a system of checking at the exit point for all resources borrowed by the users. Visitors are also required to sign noting the time of entry and exit. CCTV cameras are installed in the library for strict surveillance.

Web **OPAC** (Online Public Access Catalogue) facility is made available through E-Cap Library Management Software to know the bibliographical details about the collection. One separate node is made available in the Central Library for **OPAC** facility. And as it is a Web **OPAC**, user from any location can search the library collection. Search by giving Title, Author, and domain can be carried out.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

4.2.2 Collection of rare books, manuscripts, special reports or any other knowledge resources for library enrichment

Response:

The Institute is maintaining the following Collection of Rare Books – 1013 Nos. (Encyclopaedias + Handbooks + Dictionaries + Costly Books)

Videos beyond syllabus – 580 CDs Gate and Competitive exam books -500 Nos – Library is providing resource for higher education and career guidance. Book Bank -817volumes – Book Bank facility is one of the important facilities for students coming from under privileged section of the society in our institute. Project reports – 2354, Library has made provision for students to refer old question papers for preparing their examination. Because of currency, convince, relational mobility, low cost of content, we are making provision for our users to access e-resources through subscription, consortia basis and freely available / open success e-resources.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

4.2.3 Does the institution have the following:

1. **e-journals**
2. **e-ShodhSindhu**
3. **Shodhganga Membership**
4. **e-books**
5. **Databases**

Response: B. Any 3 of the above

File Description	Document
Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc	[View Document](#)
Any additional information	[View Document](#)

4.2.4 Average annual expenditure for purchase of books and journals during the last five years (INR in Lakhs)

Response: 7.05

4.2.4.1 Annual expenditure for purchase of books and journals year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
11.799	8.9764	5.3865	4.7449	4.3618

File Description	Document
Details of annual expenditure for purchase of books and journals during the last five years	[View Document](#)
Any additional information	[View Document](#)

4.2.5 Availability of remote access to e-resources of the library

Response: Yes

File Description	Document
Any additional information	[View Document](#)

4.2.6 Percentage per day usage of library by teachers and students

Response: 13.73

4.2.6.1 Average number of teachers and students using library per day over last one year

Response: 200

File Description	Document
Any additional information	[View Document](#)

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

The college has sufficient hotspots with extenders provided to cover the wireless range throughout the college. All computers in the campus are connected to the internet as it is essential for them to work, surplus Ethernet ports are provided for laptops or other devices in need of internet connectivity.

A separate team with in-house staff is formed to take care of the IT & related needs of the campus such as Software Development, Hardware & Networking, Website designing & hosting, Email solutions, SMS solutions, etc. The entire campus including Hostels has Wi-Fi connectivity and speed of the internet

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

4.3.2 Student - Computer ratio

Response: 217:92

File Description	Document
Any additional information	[View Document](#)

4.3.3 Available bandwidth of internet connection in the Institution (Lease line)

Response: >=50 MBPS

File Description	Document
Any additional information	[View Document](#)

4.3.4 Facilities for e-content development such as Media Centre, Recording facility, Lecture Capturing System (LCS)

Response: Yes

File Description	Document
Facilities for e-content development such as Media Centre, Recording facility,LCS	[View Document](#)
Any additional information	[View Document](#)
Link to photographs	[View Document](#)

4.4 Maintenance of Campus Infrastructure

4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years

Response: 100

4.4.1.1 Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
476.29	394.02	358.90	230.13	270.39

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic facilities	View Document
Audited statements of accounts.	View Document

4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

Response:

Yes,the college has appointed several personnel for maintaining the infrastructure by way of building maintenance, transport, furniture and generator operator in case if the power shuts down. Separate Complaint registers were maintained for various services like electrical, plumbing, housekeeping etc. The people, who work here on maintenance of the college, will report regularly about the breakage of instruments and devices to the higher authority.

Service Department	Number of Staff
Electrical Works	2
Civil Works	2
Transport	2
Computer Servicing	2
House Keeping	34

Maintenance of sensitive equipment, Power and Water supply:

Category	Capacity	Total Number	Mainte
Generator	140KVA	2	AMC
UPS for Computers Back Up	130KVA	7	AMC

For Computer Laboratories (Utilization and Maintenance)

Students and faculty members are provided separate login credentials to access the intranet and internet. Access to internet is provided in the lab even after college working hours. Apart from the regular lab classes, students are offered practice in programming languages by various value added courses which are under taken in the lab.

Preventive maintenance and breakdown maintenance procedure is followed so as to ensure maximum availability of the systems in the lab. Installation of antivirus and firewall ensure that the software and system is secured. A daily status check on the hardware and software condition of the machines is

undertaken and the same is noted in a register. This ensures that the problem is identified and rectified at an early stage itself.

Breakdown maintenance wherein the system fails due to SMPS problem or boot failure is recorded in a register. If the problem is minor, the technical support staff of the lab will rectify it. For major failures, support from vendor is taken . Anticipating vendor support, UPS and major equipments have annual maintenance contract (AMC). Periodic maintenance is done by regular cleaning of the lab spaces, software updates and antivirus updates.The stock in the lab is verified for the available equipments and discarded equipments, by a meticulousstock verification process by faculty team from other department. Regular check up of equipment is carried out at the end of every semester. Breakdown register is maintained in the laboratories. As per the requirement minor repairs are carried out by the lab assistant of faculty member. Maintenance of computers is taken care by IT and COMPUTER department. Major repairs are outsourced by following the procedure of the institute. The faulty trainer kits are serviced by service engineers of specified companies. The measuring instruments are calibrated regularly by standards companies. Stock verification is done at the end of every year by the staff members from other department and the report is submitted to the Principal.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years

Response: 76.1

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1030	724	584	557	716

File Description	Document
Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years	[View Document]
Any additional information	[View Document]

5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution besides government schemes during the last five years

Response: 8.58

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution besides government schemes year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
247	163	47	0	0

File Description	Document
Any additional information	[View Document]

5.1.3 Number of capability enhancement and development schemes –

1. **For competitive examinations**
2. **Career counselling**
3. **Soft skill development**

    4. **Remedial coaching**
    5. **Language lab**
    6. **Bridge courses**
    7. **Yoga and meditation**
    8. **Personal Counselling**

Response: A. 7 or more of the above

File Description	Document
Details of capability enhancement and development schemes	View Document
Any additional information	View Document
Link to Institutional website	View Document

5.1.4 Average percentage of student benefited by guidance for competitive examinations and career counselling offered by the institution during the last five years

Response: 15.15

5.1.4.1 Number of students benefited by guidance for competitive examinations and career counselling offered by the institution year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
76	38	180	192	165

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	View Document

5.1.5 Average percentage of students benefited by Vocational Education and Training (VET) during the last five years

Response: 0

5.1.5.1 Number of students attending VET year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
Details of the students benifitted by VET	

5.1.6 The institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

Response: Yes

File Description	Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	
Details of student grievances including sexual harassment and ragging cases	

5.2 Student Progression

5.2.1 Average percentage of placement of outgoing students during the last five years

Response: 18.67

5.2.1.1 Number of outgoing students placed year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
39	19	32	49	29

File Description	Document
Details of student placement during the last five years	
Any additional information	

5.2.2 Percentage of student progression to higher education (previous graduating batch)

Response: 28.17

5.2.2.1 Number of outgoing students progressing to higher education

Response: 40

File Description	Document
Upload supporting data for student/alumni	[View Document](#)
Details of student progression to higher education	[View Document](#)
Any additional information	[View Document](#)

5.2.3 Average percentage of students qualifying in State/ National/ International level examinations during the last five years (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

Response: 17.33

5.2.3.1 **Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) year wise during last five years**

2017-18	2016-17	2015-16	2014-15	2013-14
1	0	14	2	0

5.2.3.2 Number of students who have appeared for the exams year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
15	20	20	20	20

File Description	Document
Upload supporting data for the same	[View Document](#)
Number of students qualifying in state/ national/ international level examinations during the last five years	[View Document](#)
Any additional information	[View Document](#)

5.3 Student Participation and Activities

5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at national / international level (award for a team event should be counted as one) during the last five years.

Response: 0

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years	[View Document]()
e-copies of award letters and certificates	[View Document]()

5.3.2 Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution

Response:

Every year, a Student council is formed comprising of one student representative from each Department. From the council framed one student is being selected as Student Chairman every year. The student council plays a vital role in Departmental activities such as organizing symposiums, seminars, conferences and workshops. The council members and all the other students deliberately involve in their Department newsletter preparation and in editorial committee. The student representatives also participate in the preparation of college calendar every year to plan college activities Department wise. Especially Department symposia are completely planned, organized and conducted by the students under the supervision of the faculty.

The students involve themselves in events such as college day, hostel day, Independence day, Republic day and various club activities. Each club has several students who take on leadership roles and organize the events and get very good exposure. The student representatives also actively participate in Sports committee, cultural committee, magazine committee, calendar committee etc. The college provides ample avenues for developing technical skills, updating knowledge, personality development and service to the society through various Associations and Societies. There is a staff advisor to guide the students in the smooth and effective functioning of the Associations.

File Description	Document
Any additional information	[View Document]()
Link for Additional Information	[View Document]()

5.3.3 Average number of sports and cultural activities/ competitions organised at the institution level per year

Response: 2.6

5.3.3.1 Number of sports and cultural activities / competitions organised at the institution level year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
3	4	4	2	0

File Description	Document
Number of sports and cultural activities / competitions organised per year	[View Document](#)
Any additional information	[View Document](#)

5.4 Alumni Engagement

5.4.1 The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years

Response:

The alumnus forms the major strength of the institution. The Alumni Association was formed in the year 2015 under the title "Sai TirumalaAlumni Association". The alumni meet is conducted once in a year, where the alumni from different branches of the under graduate and post graduate programs share their views and give suggestions for the betterment of their junior students. The alumni meet is hosted by the management generously and the alumni are honoured with mementos. Such meetings are mutually beneficial for the Institution and the alumni. This provides an opportunity for the alumni to meet their friends and act as a bridge for the faculty to share their experience, knowledge and insights.

The alumni visit the institution to deliver Guest lectures and seminars for the students in their areas of expertise and motivate the young minds. Successful entrepreneurs from the alumnus are invited to talk on their success stories at various occasions of the Institute.

The alumni also help the final year students of the various streams of engineering, business administration and computer applications to get their project placements and summer internship in their companies or to assist them get it through their reference. They also assist the students for placement in public and private sectors and the regular alumni association meetings pave the way for the successful placements of the students.

File Description	Document
Any additional information	[View Document]
Link for Additional Information	[View Document]

5.4.2 Alumni contribution during the last five years(INR in Lakhs)

Response: <1 Lakh

File Description	Document
Alumni association audited statements	[View Document]

5.4.3 Number of Alumni Association / Chapters meetings held during the last five years

Response: 4

5.4.3.1 Number of Alumni Association /Chapters meetings held year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1	1	1	1	0

File Description	Document
Number of Alumni Association / Chapters meetings conducted during the last five years	[View Document]
Any additional information	[View Document]
Report of the event	[View Document]

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution

Response:

VISION

- Pioneering professional education through quality and producing competent professionals with appropriate attributes to serve the cause of the nation and the society.

MISION

- To impart quality education through state-of-art infrastructure, laboratories and dedicated faculty
- Shaping young students as proficient, competent and socially responsible technocrats with ethical values
- Fascinating faculty members and students towards research and development for the betterment of the society

The nature of governance, perspective plans and participation of the teachers in the decision making bodies.

The Philanthropic Founder Chairman, MJF. Ln. Leo Muthu had the deep vision of serving the society with the motto "We build a better nation through quality education". His vision has been the heritage statement for the functioning of the institution. The Director is the leader in guiding the administration of the institution and making the council of Principal, faculty and students work towards the vision of the institute. Based on the recommendations of the Governing Council, the commencement of new courses, expansion of infrastructure, implementation of strategy and other vital decisions are approved by the Director and implementation process discussed with the Principal and Heads of the departments for execution. The top management headed by the Director ensures that periodical meetings of the Governing Council are conducted to monitor the progress.

The institution has a perspective plan for development. Modernization of the existing facilities, implementation of new ventures for R&D, expansion of infrastructure by means of laboratories, library resources, class rooms, meeting halls and sporting facilities are the usual criteria in the annual plan of the institution. The academic plan (semester wise) is prepared by the Principal after having discussions with the HODs. The scheduling of industrial visits, conferences, workshops, seminars, FDPs, association activities, club activities, sports tournaments, recruitment and functions is done after having discussions with the HODs, conveners and team leads. The head of the institution takes decisions in the academic frontiers in tune with the regulation of the affiliating University. Regular affairs are the periodic discussions of the Principal with the HODs as well as with the faculty. The Director conducts regular meetings with the Principal, faculty, cells, students and parents. Faculty meetings with the HOD play a pivotal role as the collective suggestions are well analysed later in the HODs meetings with the Principal.

Principal's subsequent meetings with the top management and with the Governing Body ensure that all the information and suggestions reach from bottom to top and from top to bottom in a smooth fashion. The travel of smooth communication paves way for successful interaction, feedback, team work and new ventures. Organizational changes are effectively implemented not only based on needs but also in view of excellence.

File Description	Document
Link for Additional Information	[View Document](#)

6.1.2 The institution practices decentralization and participative management

Response:

The institution functions with the method of decentralized governance system. The head of the department has been bestowed with the authority of deciding the activities and delegating the responsibilities to the staff members. The department decides on timetable, subject allocation, purchase and maintenance of equipment and consumables, organizing conferences, symposia, guest lectures and workshops and recommends necessary industrial visits, in-plant trainings, internships and MoUs. The institution is functioning effectively with the culture of participative management which enables the faculty and students to give their opinion and suggestions for improvement. All the academic activities are decentralized and decisions are taken based on discussion and deliberations in the class committee meetings, department meetings, faculty meetings, HODs' meetings with Principal and HODs meetings with Director. The Principal coordinates with the departments, administration and management. Participative management provides extensive scope for having collaboration among the departments and ensures the quality of planning and implementation of all the activities in the institution uniformly and as a team.

Every year Academic Planner is prepared at the closure of the previous academic year. Principal will convene the HODs' meeting. HODs, Training & Placement, Sr. Librarian and Head of Physical education will attend the meeting. The schedule of the following will be discussed and finalized in accordance with the schedule received from affiliating university.

- Re-opening for the next academic year.
- Working days / test days / model exam days.
- Department Symposium /Association activities.
- IEEE , ISTE activities.
- Guest Lectures.
- Video Classes.
- Industrial Visits.
- Internships.
- Placement Training.
- Internal Quality Audit Days.
- External Audit.
- FDPs / Workshops / Conferences.

- IQAC Meetings.
- FDC Meetings.
- **College Functions.**

Induction Day, Women's Day, Engineers' Day, Teachers' Day, Founder's Day, Sports day, College day,Culturals Day etc.. The schedule approved by the Principal will be sent to Director's approval. After receiving the approval, permission will be granted for the committees concerned for the preparation of Academic Calendar. Nearly 90% of the events as per schedule is conducted every year. The remaining percentage rescheduled due to unforeseen reasons with the approval of Principal and CEO. The prior preparation of academic planner helps in identifying resource persons for different activities mentioned and enables the management to invite celebrities for the bigger functions. Further, student club activities are designed as and when the academic planner provides the available time. Smart class rooms, Video Theatres, Seminar Halls, are the venues for the above mentioned activities. Separate Registers are available for booking the venues appropriate to the events.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

6.2 Strategy Development and Deployment

6.2.1 Perspective/Strategic plan and Deployment documents are available in the institution

Response:

The management council monitors the performance and the progress of the institute to ensure the fulfilment of the goals. To ensure consistency in academic excellence, up gradation of facilities in needed spheres is the standard agenda in the council meetings. Resolutions are made as per requirements and they are implemented to enrich teaching - learning process in a broader perspective.

The institution had a humble beginning with one main block and year after year the institution is witnessing upward journey in creating and expanding infrastructure facilities. The institution is now functioning with Four main blocks. At Sai Tirumala, the quality of student experience is our main priority. We seek to ensure that our students benefit from a high quality learning environment that includes spacious classrooms, well-equipped laboratories, state-of-the-art computing facilities, rich and diverse knowledge resource centres, smart class rooms, video theatres, seminar halls, auditoriums, first class sporting facilities with indoor and outdoor complexes, practice and rehearsal halls for cultural activities, feel at home hostel accommodation facilities and extensive facilities for on-campus training and placement. At Sai Tirumala, quality education is more than a philosophy, it is the very essence of our existence.

With the intension of providing ample avenues, enhancing the infrastructure facilities by means of construction of new blocks, class rooms, laboratories, auditoriums, and library facilities have been in the agenda of the continuous process. Though the needed facilities are in place as per requirements and the recommendations of the affiliating university, they are enriched with the aim of fulfilling the goals in the

strategic plans which go beyond the syllabus as well to make the student fraternity not only thorough professionals but also responsible citizens who can contribute for the development of the society and the nation. The quest for enriching the facilities goes beyond the mandatory facilities to execute activities like a few cited below.

- Entrepreneur Development Cell (EDC)
- Centre for Soft Skills and Latest Trends
- Club Activities Discussion Rooms

File Description	Document
Link for Additional Information	[View Document](#)
Strategic Plan and deployment documents on the website	[View Document](#)

6.2.2 Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism

Response:

The receptive management stands as an asset to the system and stakeholders. The Governing Body takes the responsibility of monitoring the implementation of activities in the institutional strategic plan. Though a few vital goals are achieved within a short span of time, the Governing Body of top management, Principal, HODs, teaching, non-teaching, students and stake holders work as a team to reinforce the culture of excellence. "We build a better Nation through Quality Education" being the motto of the institute, excellence in every sphere is ensured not only through the mission and strategies but also in various programmes executed. The below is the list of pivotal activities.

Adopting procedures for contemporary teaching learning processes Monitoring the procedures and Progress by the HODs

Analyzing the feedback from students, Parents and experts Understanding the above said feedback and improving services

Continuous and meticulous efforts are ensured to maintain quality in both academic and administrative levels. Every year ISO audit is conducted and subsequently recertification is granted.

Principal is the chairperson of administrative and academic activities of the institution. Heads of the departments take the responsibility of heading all the administrative and academic activities of the department. The HODs possess both the academic and the financial autonomy in accordance with all academic aspects. They are entitled to take decisions as per the needs of the situations in exigencies and get them ratified by the Head of the Institution subsequently at a later stage. The Principal, HODs and Team leads are sanctioned imprest amount, for seeing the execution of multiple events scheduled. Based on the experience and the expertise of the faculty members, team leads have been identified to lead different

teams which are functioning effectively. They can act spontaneously for moulding / grooming the members of their teams and they have been identified as second rung leaders.

Recruitment of teaching, non teaching and office administration staff is planned at the end of every academic year as per the requirements of the next academic year. Staff appraisal system is in existence in tune with the promotional policies. The grievance redressal mechanism helps us to serve better by understanding the expectations.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.2.3 Implementation of e-governance in areas of operation

1. **Planning and Development**
2. **Administration**
3. **Finance and Accounts**
4. **Student Admission and Support**
5. **Examination**

Response: B. Any 4 of the above

File Description	Document
Screen shots of user interfaces	View Document
Details of implementation of e-governance in areas of operation Planning and Development,Administration etc	View Document

6.2.4 Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions

Response:

With the leadership of the Principal, every committee will be assigned with specific tasks pertaining to the requirements of conducting college functions. Heads of the committees monitor the works. A minimum of two meetings will be held prior to the function in the presence of Director, Principal, HODs and Committee heads. The committees constituted are not permanent. Members are reshuffled for change of committees for different functions. This enables the members getting familiarized with any kind of activities related to any function. The conduct of functions fosters relationship and nurture unity.

The following sequence of activities was done after constituting the committees.

- Conducting meetings for the committee heads with members.

- Circulation of the Minutes of the Meetings among the members of the committees.
- Execution of activities as planned.
- Successful conduct of the function.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

Response:

Welfare measures for teaching staff :

- Free transport facilities Waiver of fees up to for teachers' children in the Institution.
- Medical leave and Maternity leave.
- Medical Support from our Indian Medical Systems.
- Marriage gifts with the sanction of one week leave.
- Gifts and mementoes during Teachers' Day celebrations.
- Sponsoring for attending conference, workshops and FDPs.
- Incentive for publication of papers / research articles
- Reward for producing University Ranks
- Cash awards for academic excellence / 100% pass.
- Special Study Leave (SSL) to pursue higher education.
- Family Get – to gethers.
- Subsidiary canteen fare for teachers.
- Group Insurance.

Welfare schemes for non-teaching staff :

- Educational support to the children of the staff.
- Marriage gifts with the sanction of one week leave.
- Granting medical leave / maternity leave.
- Medical Support from our Indian Medical Systems.
- Free transport facilities.
- SSL for higher studies.
- Incentive for attending orientation programmes, workshops and conferences.
- Gifts during Teachers' Day celebrations.
- Family Get - together.
- Incentive for dress materials for non-teaching staff.
- Incentive for vehicle utilization or transport allowance for non-teaching staff.
- Incentive for dress materials for housekeeping staff.

- Subsidiary canteen fare for non-teaching staff.
- Group Insurance.

File Description	Document
Any additional information	[View Document]()
Link for Additional Information	[View Document]()

6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 7.98

6.3.2.1 Number of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
32	15	14	1	0

File Description	Document
Details of teachers provided with financial support to attend conferences,workshops etc during the last five years	[View Document]()

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Response: 1.8

6.3.3.1 Total number of professional development / administrative training programs organized by the Institution for teaching and non teaching staff year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
5	1	1	2	0

File Description	Document
Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff	View Document
Any additional information	View Document

6.3.4 Average percentage of teachers attending professional development programs viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Program during the last five years

Response: 14.07

6.3.4.1 Total number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
54	22	22	13	0

File Description	Document
IQAC report summary	View Document
Details of teachers attending professional development programs during the last five years	View Document

6.3.5 Institution has Performance Appraisal System for teaching and non-teaching staff

Response:

The management evaluates the performance of the faculty based on teaching, research, participation in teamwork, arranging co curricular and extracurricular activities and publication works. They are awarded and appreciated during teachers' day celebrations. The appraisal system motivates the staff to excel and put forth the best of their efforts. Staff retention is one among the strengths of the institution.

The following factors are deeply analysed in the appraisal system for teaching staff

- Experience
- Skill upgradation through participation in Conferences, Workshops, Faculty Development Programs and others.
- Innovative teaching practices.
- Pursuing higher studies (Ph.D, PDF).
- Research activities and obtaining patents.
- Result percentage produced in the University Examination.

- Publication works in the Scopus indexed / impact factor / e - journals & conference proceedings.
- Publication of chapters in books and publication of books.
- Carrying out sponsored projects.
- Mentoring and Counseling methods.
- Feedback from HOD and Principal.
- Feedback from students.
- Establishing rapport with peers.
- Active participation in team work

Undertaking new academic ventures and being team leads Rewards for outstanding achievements in their studies pursued after joining the institution Attending specific conferences / workshops / training programs related to cells and clubs, for which they coordinate as team leads Awards and Rewards for being good academician – state and national level Community service through the institution and outside the institution Participation in conducting extracurricular activities.

The following factors are deeply analysed in the appraisal system for non-teaching staff

- Experience
- Skill upgradation through Orientation Programs, Refresher Course, Short Term Courses and Faculty Development Programs.
- Higher Studies.

Feedback from HOD and Principal

- Active participation in team work
- Work Discipline
- Outstanding Achievements in their studies
- Participation in Community services

The following factors are deeply analysed in the appraisal system for non-teaching staff

- Experience
- Skill upgradation through Orientation Programs, Refresher Course, Short Term Courses and Faculty Development Programs.
- Higher Studies.

Feedback from HOD and Principal.

- Active participation in team work.
- Work Discipline.
- Outstanding Achievements in their studies.

Participation in Community services.

The following factors are deeply analysed in the appraisal system for non-teaching staff

- Experience
- Skill upgradation through Orientation Programs, Refresher Course, Short Term Courses and Faculty Development Programs.
- Higher Studies.
- Feedback from HOD and Principal.
- Active participation in team work.
- Work Discipline.
- Outstanding Achievements in their studies.
- Participation in Community services.

File Description	Document
Any additional information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

Internal Audit is performed by officials deputed from Trust office periodically and the reports are obtained before conduct of the external audit which is normally done after the closure of the accounts in all respects. External Audit is done by the Statutory Auditors after 30th June of the subsequent year.

During the course of Internal Audit, all required steps are taken to regularize the accounts and to obtain confirmations for the credit balances, to collect documentary evidences wherever inadequate in respect of payments, compliances of T.D.S. and Statutory Formalities and Reconciliation of Unit wise balances with the Control Accounts and Bank Reconciliations. The copy of the Internal audit report covering all matters related to maintenance of accounts is preserved.

Subsequently, External Statutory Audit is conducted by the auditors and the final audit report with audit findings are submitted to the Management. The consolidation of the findings of the Institutions with Trust Central office has been completed and the annual returns have been submitted to Income tax Authorities, Registrar of Societies, Andhra Pradesh and to the other relevant authorities concerned.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.4.2 Funds / Grants received from non-government bodies, individuals, Philanthropists during the last five years (not covered in Criterion III) (INR in Lakhs)

Response: 0

6.4.2.1 Total Grants received from non-government bodies, individuals, philanthropists year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
Details of Funds / Grants received from non-government bodies during the last five years	[View Document](#)

6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Response:

Mobilization

Fees Collections

Students are admitted as per the Government of Andhra Pradesh prescribed Higher Education norms by admitting 70% of students through counselling and 30% of students category B.

Term Loan and Hire Purchase Loans

Institute is getting above Loans from Banks with reduced rate of interest by maintaining the liquidity, DSCR and Debt Equity Ratios which are sound and the Loans are availed through Banks.

Non Government Bodies and Sponsorship Receipts

Donations are received from well wishers (alumni and others), industries, individuals and philanthropists for institutional activities.

Optimal Utilization

Recurring Expenses

Salary to staff, academic activities and payment of bank interest are done with fees collection.

Infrastructural development facilities and Building construction works

Management allocates budget to create and upgrade the infrastructural facilities in tune with the modern trends and for construction works. Bank loans and corpus donations received from well wishers and philanthropist are judiciously utilized for the same.

The institute gets grants from AICTE for purchase of modern lab equipments, purchase of latest version software and others. The grants are utilized.

College purchases new vehicles as per student strength, through hire purchase loans from banks and loans are repaid with reduced rates of interest from the reasonable transport charges.

Seminars, Conferences and Faculty Development Programmes and other co-curricular

The institute conducts the above said regularly and religiously matching with the latest technology, innovations, research, changes and needs for the society.

Extra-curricular activities

Modern sports complex has been created to provide ample opportunities for conduct of sports and enabling student participation.

Green Atmosphere

Enough care is taken to maintain cleanliness in the campus which coexists with godliness and fund is judiciously utilized.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

Response:

Introduction of three question paper per course:

The IQAC focuses on the continuous improvement of the examination system for the students. There is a centralized examination cell to conduct the unit tests and the end examination.

The examination cell has been functioning effectively and the staff handling the subjects prepares one question paper for each subject and hands over the same to the examination cell, examination cell allots the invigilators and the invigilators in general are from different departments.

After monitoring the progress of the students.This system is being further improved by the recommendations of the IQAC cell and currently, there is a practice of submitting four question papers per course by the staff handling the course to the examination cell. The examination cell in charge select one of

the four question papers at random and the same is given on the day of unit tests, model examination and from the remaining two one is chosen for the corresponding exam. The preparation of multiple question papers for one course with a few repeated questions enables the students getting exposed with more number of possible questions for their end semester examinations, which in turn improves their performance in the university examinations.

Pre Final year and Final year project exhibition

The management is very much concerned about the quality of projects the students undertake during final year. The IQAC suggested that the students can plan their projects in the pre-final year. A mini project exhibition is conducted by the departments of CSE, ECE, Mechanical, EEE and CIVIL in the sixth semester. For the mini project the students have to present two reviews and marks are awarded by the project guides for the reviews. It has been made compulsory for all the students to undertake a mini project, even though it is not a part of the syllabus of the affiliating University. The third review is presented by the students in front of the judges and prizes are distributed for the winners during the mini project exhibition. Prizes include merit certificates and cash awards and participation certificate for all participants. This is an initiative taken by the IQAC for doing a quality project in the final year. Apart from this mini project exhibition, there is a project exhibition in the eighth semester in which the students of all departments exhibit their projects. Experts are invited from Industry and Academic institutions to judge the projects exhibited by the students. First three prizes are awarded for each department and this creates a healthy competition among the students and to go for socially relevant and innovative projects.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms

Response:

Content beyond the syllabus and Skill rack online programming :

The teaching learning process is continuously monitored and reviewed by the Head of the departments and reported to the Principal and the management.Apart from the regular class room lectures by the faculty members for each course, students are given opportunities to attend the guest lecture from industrial experts in the smart class rooms. The contents of this type of lecture are beyond the syllabus and they expose the industry requirement to the students. This lecture facilitates the students to know in depth about the industry requirement and the necessary skills they should equip with for placement.The interactions with industrial experts narrow down the gap between the institute and the industry requirement which helps the management in identifying the necessary soft skill development required for the students.Placement training through online tests by Skill rack is an online programming introduced by the management with a view to help the students for better placement. Faculty members are trained on the same before implementing it to the students. Skill rack is an initiative facilitated by IQAC with the support from

Training and Placement cell. Guest lectures on content beyond the syllabus and Skill rack introduced by the management are the outcomes of IQAC which are well supported by the management.

Video Classes and NPTEL online courses

Other than smart class rooms lectures, videos are played for specific topics beyond the syllabus but related to the latest technology in the respective domains. Through these video classes students are exposed to have a thorough understanding of the processes through visual means with maximum impact and this encourages them to focus on their project work too. The students show much interest in the videos played in the video theatre and the response by the students to the question session post video session is very interactive. A regular schedule for proper utilization of the video theatre indicating the date, time, branch and year of study is prepared at the beginning of the semester, so that all the students are benefited through video sessions. The students and faculty members are encouraged to register for the NPTEL (National Programme on Technology Enhanced Learning) online courses initiated by IITs and IISc. If a registered candidate (staff or student) scores above 80% in the final examination, the management repays Rs.500/-and Rs. 1000/- for those who score more than 90% towards the examination fees paid by them. This is a very good motivation from the management to the staff and students. The idea of repaying the fees is put forward by IQAC to the management. The IQAC is instrumental in implementing new ventures for enabling the learners, acquiring knowledge beyond the syllabus.

File Description	Document
Any additional information	[View Document]
Link for Additional Information	[View Document]

6.5.3 Average number of quality initiatives by IQAC for promoting quality culture per year

Response: 6.2

6.5.3.1 Number of quality initiatives by IQAC for promoting quality year-wise for the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
11	10	9	1	0

File Description	Document
Number of quality initiatives by IQAC per year for promoting quality culture	[View Document]
Any additional information	[View Document]
IQAC link	[View Document]

6.5.4 Quality assurance initiatives of the institution include:

1. **Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements**
2. **Academic Administrative Audit (AAA) and initiation of follow up action**
3. **Participation in NIRF**
4. **ISO Certification**
5. **NBA or any other quality audit**

Response: A. Any 4 of the above

File Description	Document
e-copies of the accreditations and certifications	[View Document](#)
Details of Quality assurance initiatives of the institution	[View Document](#)
Any additional information	[View Document](#)
Annual reports of institution	[View Document](#)

6.5.5 Incremental improvements made during the preceding five years *(in case of first cycle)* **Post accreditation quality initiatives** *(second and subsequent cycles)*

Response:

The growth of infrastructure in the last five years has been upward. video theatres are a few to be stated.Involvement of students in sports activities. Our students continuously have bagged Many prizes university level and inter college partcipation. The EDC was initiated for promoting students' research interest. There is a continuous increase in the number of University ranks year on year and Sai Tirumala NVR Engineering College has bagged the highest number of prizes for the past three consecutive years.

- Regular/Periodical conduct of National Conferences and workshops.
- Introduction of Mentor books for students counseling.
- Getting digitalized in more number of academic operations.
- Identifying best practices and implementing the same, year after year, as a team from top management to bottom level discussions.

File Description	Document
Any additional information	[View Document](#)

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Number of gender equity promotion programs organized by the institution during the last five years

Response: 7

7.1.1.1 Number of gender equity promotion programs organized by the institution year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
4	2	1	0	0

File Description	Document
List of gender equity promotion programs organized by the institution	[View Document](#)
Any additional information	[View Document](#)

7.1.2

    1. Institution shows gender sensitivity in providing facilities such as:
        1. Safety and Security
        2. Counselling
        3. Common Room

Response:

Gender Sensitivity

The institution aims to groom students to be self-reliant, specialists in their chosen discipline, continuous learners, effective communicators, respectful of different cultures, socially responsible, aware of their social and civic responsibilities, sensitive to gender issues with zero tolerance towards sexual harassment, women safety and security, and environmental consciousness. One of the objectives of this institution is to promote education that would be sensitive to the needs of the various sections of society with special emphasis on gender equality and gender sensitivity. Students of both the genders are given equal opportunities to grow and develop into able, responsible citizens of the future. College makes efforts to maintain gender balance among the faculty members. Departments headed by Women are almost equal to the other departments Similarly, the number of women in the administrative and housekeeping departments are high. The college has installed closed circuit (CC) cameras to monitor the security and safety of the girl students. The college.

has an exclusive club for sensitizing both staff and students to gender named as Women Empowerment

Cell. It plays a proactive role in sensitizing young minds towards gender issues by involving them in various activities. The club organizes events like interactive talks and lectures on sensitive and critical gender issues like social malpractices, equality of sexes, women safety, health, promoting Women Entrepreneurs, self-defence for girls etc. The women club activities are planned, organized, and executed by a committee comprising of 25 girl students representing all the departments with the guidance of the faculty. Apart from Women Empowerment club, there are other student clubs vibrant in the institution comprising both the gender. Stereotypes of gender roles are broken and students of any gender are allowed to take up their membership, roles, and responsibilities of their interest in the clubs. Themed events are conducted emphasizing gender issues are conducted to instill awareness among the students. Every year there is a huge celebration of women's day and inspiring women personalities are invited to share their life experiences. A complaint box has been installed on the premises of the college to ensure redressal of grievances. Lectures on women safety are also conducted. The girl students are assured of their well-being, safety, security and mental health and are encouraged to approach any faculty for their grievances. Our on-site counselling system provides support to the girls and enables them to understand and resolve their problems. The college has a big common room, with tennis boards and carom boards for the recreation of students separately for boys and girls.

File Description	Document
Any additional information	[View Document]

7.1.3 Alternate Energy initiatives such as:

1. **Percentage of annual power requirement of the Institution met by the renewable energy sources**

Response: 0

7.1.3.1 Annual power requirement met by the renewable energy sources (in KWH)

7.1.3.2 Total annual power requirement (in KWH)

Response: 98000

File Description	Document
Details of power requirement of the Institution met by renewable energy sources	[View Document]
Link for Additional Information	[View Document]

7.1.4 Percentage of annual lighting power requirements met through LED bulbs

Response: 33.91

7.1.4.1 Annual lighting power requirement met through LED bulbs (in KWH)

Response: 11016

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 32484

File Description	Document
Details of lighting power requirements met through LED bulbs	[View Document](#)

7.1.5 Waste Management steps including:
- **Solid waste management**
- **Liquid waste management**
- **E-waste management**

Response:

The total solid waste collected in the campus is 10 Kg/day on an average, from tree droppings, cups, paper etc. The waste is segregated at source by providing separate dustbins for Bio-degradable and Plastic waste. Single sided used papers are reused for writing and printing in all departments. Less plastic waste (average 0.5Kg/day) is generated by few departments, office, etc., it is collected and given to the vendor on a regular basis. Metal and wooden waste is stored and given to authorized scrap agents for further processing. Glass bottles are reused in the laboratories. The food waste is converted into biogas and is again used for the kitchen. Sanitary napkins are disposed of using incineration process. Use of personal mobile phones, Memory cards etc. are prohibited in the campus. E-waste from labs is properly collected and is given to the licensed recycler, reused wherever possible, donated and sold if possible. Non-working computers, monitors, and printers are discarded and scrapped on a systematic basis. Some parts useful for other systems are kept aside for future use. Students are also imparted awareness and education about E-Waste. Our institute has a CII E-Waste Collection center and they collect a considerable amount of E-Waste.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

7.1.6 Rain water harvesting structures and utilization in the campus

Response:

There is great demand for water in an engineering college for laboratories for use in experiments, drinking facilities, cleaning purposes, for horticulture purpose etc. Well, and Ponds are the two major sources of water. Water is used for drinking purposes, canteen, toilets, laboratory, and gardening. The institute ensures that the water wastage is minimized at an optimal level and the leaky taps and pipes are under

regular check and hence no loss of water is observed, neither by any leakages nor by overflow from overhead tanks. On an average, the total use of water in the college is around 18,000 L/day on an average, which includes 5,000 L/day for domestic purposes, 10,000 L/day for gardening and 3,000 L/day for different laboratories. The college has implemented rainwater harvesting (RWH) within its campus for storing and reuse and it has reduced its dependence on water tankers, saving lakhs of rupees every year. The water is treated in RO plant which has a capacity of 2000 lt/h. Gardens are watered using drip/sprinkler irrigation system to save water. Displays of signboard and posters are done for the creation of awareness in Hostels and College campus.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

7.1.7 Green Practices
- **Students, staff using**
  a) **Bicycles**
  b) **Public Transport**
  c) **Pedestrian friendly roads**
- **Plastic-free campus**
- **Paperless office**
- **Green landscaping with trees and plants**

Response:

The institute is a Green campus, plush, serene, with landscaping. The students and faculty are encouraged to plant more trees and making the campus garbage and plastic free zone. Swacch Bharat Club at our college takes care of maintaining the campus clean. Tree plantation programs, helps in encouraging eco-friendly environment, which provides pure oxygen within the institute and awareness among the villagers. The Illumination and Ventilation in classrooms are adequate considering natural light and air velocity present. The noise level in the campus is well within the limit i.e. below 50 DB at daytime. The installation of solar panels, paperless work system, and composting practices are noteworthy. College transportation facilities are used to commute. Students residing near the college use bicycles or walk to the college. The College makes the student aware of the Carbon Credits, Carbon Neutrality in the subject of Environmental Studies in the programmes. Tobacco products are strictly banned within 2 kilometres around the campus. The chimney in the kitchen produces carbon and other carbon pollutants. Regular cleaning ensures carbon neutrality.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years

Response: 1.87

7.1.8.1 Total expenditure on green initiatives and waste management excluding salary component year-wise during the last five years(INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
5.38774	9.85111	5.19558	8.10014	2.01442

File Description	Document
Green audit report	[View Document](#)
Details of expenditure on green initiatives and waste management during the last five years	[View Document](#)
Any additional information	[View Document](#)

7.1.9 Differently abled (Divyangjan) Friendliness Resources available in the institution:

1. **Physical facilities**
2. **Provision for lift**
3. **Ramp / Rails**
4. **Braille Software/facilities**
5. **Rest Rooms**
6. **Scribes for examination**
7. **Special skill development for differently abled students**
8. **Any other similar facility (Specify)**

Response: C. At least 4 of the above

File Description	Document
Resources available in the institution for Divyangjan	[View Document](#)
Any additional information	[View Document](#)
link to photos and videos of facilities for Divyangjan	[View Document](#)

7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years

Response: 9

7.1.10.1 Number of specific initiatives to address locational advantages and disadvantages year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
2	2	01	2	2

File Description	Document
Number of Specific initiatives to address locational advantages and disadvantages	[View Document](#)
Any additional information	[View Document](#)

7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)

Response: 10

7.1.11.1 Number of initiatives taken to engage with and contribute to local community year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
2	2	2	2	2

File Description	Document
Report of the event	[View Document](#)

7.1.12
Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff

Response: Yes

File Description	Document
Any additional information	[View Document](#)
URL to Handbook on code of conduct for students and teachers , manuals and brochures on human values and professional ethics	[View Document](#)

7.1.13 Display of core values in the institution and on its website

Response: Yes

File Description	Document
Any additional information	[View Document](#)
Provide URL of website that displays core values	[View Document](#)

7.1.14 The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations

Response: Yes

File Description	Document
Details of activities organized to increase consciousness about national identities and symbols	[View Document](#)
Any additional information	[View Document](#)

7.1.15 The institution offers a course on Human Values and professional ethics

Response: Yes

File Description	Document
Any additional information	[View Document](#)
Provide link to Courses on Human Values and professional ethics on Institutional website	[View Document](#)

7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions

Response: Yes

File Description	Document
Any additional information	[View Document](#)
Provide URL of supporting documents to prove institution functions as per professional code	[View Document](#)

7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal

harmony and social cohesion as well as for observance of fundamental duties during the last five years

Response: 8

7.1.17.1 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
4	2	2	0	0

File Description	Document
List of activities conducted for promotion of universal values	[View Document](#)
Any additional information	[View Document](#)

7.1.18 Institution organizes national festivals and birth / death anniversaries of the great Indian personalities

Response:

Our students are on a mission towards better India. They come together breaking the boundaries of religion and caste. The institution celebrates Days of National Importance like Independence Day and Republic day with fervour and festivity. Death and Birth anniversaries of great personalities, Important Days of National and International events are also celebrated meaningfully. The institution celebrates these days of national importance to recall the events or contribution of our leaders in building the nation. Thoughts of great Indian personalities sowed into the young minds through the exhibitions and programmes conducted on these days. Every year Teachers day is celebrated on September 5th recognising the contributions and achievements of teachers, Engineers day on 15th September, to celebrate the contribution and achievements of Engineers and inculcate a sense of pride is religiously celebrated.

File Description	Document
Any additional information	[View Document](#)

7.1.19 The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions

Response:

The institution maintains transparency in its financial, academic, administrative, and auxiliary functions in a very clean and fair manner. Ethical and responsible conduct permeates the institution, from its financial functions, through its academic and personnel policies, to its varied auxiliary functions. To ensure that the institution operates transparently and openly in all activities, it develops and updates policies. College has a dynamic history of policy review/revision that reflects the institution's ongoing commitment to integrity and ethical actions. It has managed to improve faculty and staff salaries in the past ten years. Every transaction is through bank and a receipt is promptly issued whenever it is necessary. The receipt and payments are done through bank. The disbursal of scholarships and other monetary benefits to the students is done through banks. The institution endeavors to ensure all financial transactions, reports and documents are completed with integrity, and that the institution presents timely and accurate information to the Statutory authorities and stakeholders. The Institutional mechanism for monitoring the effective and efficient use of financial resources is the Financial Committee consisting of Trustees. The Committee is assisted by the experts to finalise matters relating to fee structure and the budget provisions of the college. Actual day-to-day financial transactions are tracked by the Principal, Trustee, Manager (for approvals and the Accounts Officers (for Cross Verification and accounting). The institution has appointed external auditors, who regularly audit the accounts. The governing council monitors every academic activity of the college. Auxiliary functions are conducted in a transparent way. For this purpose, decisions are taken in staff council meetings. All circulars regarding, students, teaching staff & non teaching staff are circulated, read in all the classes & displayed on the notice boards. Unique student id's are given to each student and official communication are done through the same.

File Description	Document
Any additional information	[View Document](#)

7.2 Best Practices

7.2.1 Describe at least two institutional best practices (as per NAAC Format)

Response:

TITLE OF THE PRACTICE:

STUDENTS MENTORING SYSTEM :

OBJECTIVE OF THE PRACTICE: The goal is to establish a trusting relationship between the Mentor and the Mentee and to help the mentees attain their aims.

CONTEXT: The students are assigned to faculty mentors from their first year. Mentors create a better environment for their mentees and the mentees can approach their mentors for educational, personal guidance and knowledge enhancement.

PRACTICE 1: The mentors closely monitor their mentee performance and provide an ongoing support. They also provide awareness and guidance about competitive examinations and courses required for placements. A mentor encourages the students for pursuing higher studies and encourages entrepreneurship. Each and every detail regarding the student is noted down in their mentor book to

maintain a hard copy for reference. Frequent counseling sessions help the student in expressing their opinions and problems with ease. Counseling is done after tests and after the University exam Results. Mentor books are updated with their results, achievements, certifications, attendance, scholarships and project details.

EVIDENCE OF SUCCESS: The evidence of success is the percentage of students passed in five years from 2013 to 2017 academic result, number of students placed in the campus recruitment and number of students who got JNTUK, Kakinada rank in last five years. After implementing the practice there is an increase in the Pass percentage, the number of Rank holders and Placement record.

PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED: Damage to the hard disk or CPU is a problem and is addressed by frequent back-ups. The software may slow down the process and the software has to be updated regularly. Delay in updating leads to ambiguity. Authorization and authenticity has to be monitored closely.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

7.3 Institutional Distinctiveness

7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

Response:

The primary objective of the institution is the pursuit of Academic Excellence and Placements. The institute also aims at vitalizing the learning skills with a focus on futuristic demands, vitalizing teaching-learning process, ICT, Human Values, and functional relationship with all the stakeholders for the holistic development of the individual and society. It also strives to create virtuous, meritorious personalities and to prepare professional, creative, and humane students to serve the humanity by setting a commendable tradition of initiative and imagination. The institution stands apart from all other colleges by placing greater emphasis on producing professional students by providing value-based education and enabling the students to face challenges in modern life. The institute aims at instilling a sense of self-discipline and accountability among students and developing a respect for democratic, ethical, and moral values. The college provides the best amenities required for students to enhance their Technical skills, Academics, and Extra-curricular activities and brings out the best in them. The college is ranked within the Top 10 Engineering colleges in Guntur. The placement cell "TRAINING AND PLACEMENT" is an integral part of our institution, ensures that the students are well trained and prepared to face their campus interviews effectively. Training is imparted to the students from their second year in soft skills and technical skills. The academic and placement processes are complemented with a diverse array of opportunities provided to the students in enhancing their knowledge beyond academics. Various conferences, guest lectures, workshops, summit, celebrity chats are organized throughout the year, by which the students are exposed to the outside world work ethics and all the recent developments and innovations. Students are encouraged

to develop their own projects that are funded by both the State and Central Government of India to help them explore their creative ideas. To bring out the concealed talents of the students every year the institution conducts Tech Fests cultural extravaganza. This event throws light on various arts and thus pushes the students to excel in Co-Scholastic areas as well. The institution has provided the best possible facilities in terms of infrastructure for teaching, learning and sports activities to make a student, complete in all dimensions. The Classrooms, Laboratories, Smart classrooms, Group discussion halls, Library, Solved Question bank for all the subjects and Administrative office are highly conducive to the overall academic environment. The institution hosts fully equipped grounds for athletics, tennis, basketball, indoor badminton courts, and volleyball courts. As a result, students have performed well in state and national level sports events and secured many medals.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

5. CONCLUSION

Additional Information :

- Sai Titumala NVR Engineering college is one of the top 10 colleges in Guntur Dist. affliated to JNTUK,Kakinada.
- 2 university ranks and 1 Gold Medals in the year 2015.
- Majority students got placed in the last 5 years.
- Organised a tech fest, National Level Project Competition for Engineering Colleges all over the state .
- 11 Blood Donation Camps organized by NSS since 2007.
- Got recognition for mobilizing more than 250 units of blood each year, for the past five years.
- Its a ISO 9001-2015 certified Institution.

Concluding Remarks :

Right from its inception in 2007 with just four branches of undergraduate Engineering courses, the Institution has grown leaps and bounds both in its size as well as stature till this day and promises to continue in its progressive mode of placing at the hands of our nation , Engineers with knowledge, skill as well as human values. The Institution has been constantly refining its focus as well as modus operandi in achieving the Vision it has set for itself. The descriptive summaries and the accompanying data under each criterion are a proof of the sincere efforts of the Institution in this direction. It is a firm belief as well as the perception of the Management of this Institution that the growth in infrastructure, academics, research, co-curricular and extracurricular activities, activities on social and national issues for creating awareness as well as mitigating the problems, contributions in terms of activities of relevance to local community around the Institution - have all been in keeping with the expectations of NAAC - a wing of the UGC, highly relevant to the present-day educational scenario in the country.

As such, it is humbly submitted that this Institution, Sai Tirumala NVR Engineering college deserves to be accredited well by NAAC .

This accreditation will also be a mile-stone in its chronological history as well as serve as a great morale-booster in accelerating its growth towards its nation-building efforts through Engineering education.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification
1.1.2	Number of certificate/diploma program introduced during the last five years 1.1.2.1. **Number of certificate/diploma programs introduced year-wise during the last five years** Answer before DVV Verification: 	2017-18	2016-17	2015-16	2014-15	2013-14
---	---	---	---	---
6	4	6	5	2 | Answer After DVV Verification : | 2017-18	2016-17	2015-16	2014-15	2013-14
---	---	---	---	---
4	6	3	4	2	 Remark : Edited as Per clarification response
1.3.2	Number of value added courses imparting transferable and life skills offered during the last five years 1.3.2.1. Number of value-added courses imparting transferable and life skills offered during the last five years Answer before DVV Verification : 19 Answer after DVV Verification: 5 Remark : HEI input edited according to provided documents. also one day program not considered as a value added courses.
1.4.2	Feedback processes of the institution may be classified as follows: Answer before DVV Verification : B. Feedback collected, analysed and action has been taken Answer After DVV Verification: B. Feedback collected, analysed and action has been taken
2.3.3	Ratio of students to mentor for academic and stress related issues 2.3.3.1. Number of mentors Answer before DVV Verification : 65 Answer after DVV Verification: 65
3.3.4	Number of research papers per teacher in the Journals notified on UGC website during the last five years 3.3.4.1. Number of research papers in the Journals notified on UGC website during the last five years Answer before DVV Verification: 	2017-18	2016-17	2015-16	2014-15	2013-14	

| 28 | 18 | 20 | 08 | 20 |

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
13	4	2	3	1

Remark : HEI input edited according to provided documents.

| 3.4.2 | Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years

3.4.2.1. Total number of awards and recognition received for extension activities from Government /recognised bodies year-wise during the last five years
Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
3	1	1	0	0

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
3	1	1	0	0

| 3.5.1 | Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years

3.5.1.1. Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years
Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
6	4	4	3	1

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
5	3	2	1	0

| 3.5.2 | Number of functional MoUs with institutions of National/ International importance, Other Institutions, Industries, Corporate houses etc., during the last five years (only functional MoUs with ongoing activities to be considered)

3.5.2.1. Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years (only functional MoUs with ongoing activities to be considered) |

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
1	1	1	1	1

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
3	0	0	0	0

Remark : HEI input edited according to provided documents.

5.2.2	Percentage of student progression to higher education (previous graduating batch) 5.2.2.1. Number of outgoing students progressing to higher education Answer before DVV Verification : 40 Answer after DVV Verification: 40
5.2.3	Average percentage of students qualifying in State/ National/ International level examinations during the last five years (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations) 5.2.3.1. **Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) year wise during last five years** Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
1	0	12	5	0

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
1	0	14	2	0

5.2.3.2. Number of students who have appeared for the exams year-wise during the last five years
Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14

5.3.1	Number of awards/medals for outstanding performance in sports/cultural activities at national / international level (award for a team event should be counted as one) during the last five years. 5.3.1.1. Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year-wise during the last five years Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14

| 17 | 18 | 10 | 3 | 0 |

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

Remark : HEI input edited according to provided documents

6.3.4	Average percentage of teachers attending professional development programs viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Program during the last five years

6.3.4.1. Total number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
57	23	13	0	0

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
54	22	22	13	0

Remark : HEI input edited according to provided documents.

6.5.3	Average number of quality initiatives by IQAC for promoting quality culture per year

6.5.3.1. Number of quality initiatives by IQAC for promoting quality year-wise for the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
14	14	14	3	0

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
11	10	9	1	0

2.Extended Profile Deviations

ID	Extended Questions
1.1	Number of courses offered by the institution across all programs during the last five years

	Answer before DVV Verification : 10 Answer after DVV Verification : 498
2.3	Number of outgoing / final year students year-wise during the last five years Answer before DVV Verification: 	2017-18	2016-17	2015-16	2014-15	2013-14
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70	180	388	454	360 | Answer After DVV Verification: | 2017-18	2016-17	2015-16	2014-15	2013-14
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142	121	302	424	451	