

# ANNUAL QUALITY ASSURANCE REPORT (AQAR) 2013 - 2014

*Submitted to*



## **NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

*An Autonomous Institution of the University Grants Commission*  
P. O. Box. No. 1075, Nagarbhavi, Bangalore - 560 072 India

*Submitted by*



## **SREE VIDYANIKETHAN ENGINEERING COLLEGE** (AUTONOMOUS)

(Approved by AICTE, Accredited by NBA, New Delhi and Affiliated to JNTUA, Anantapur)  
Sree Sainath Nagar, A. Rangampet, Chandragiri Mandal, Chittoor Dist., Andhra Pradesh – 517 102  
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[www.vidyanikethan.edu](http://www.vidyanikethan.edu)

# THE ANNUAL QUALITY ASSURANCE REPORT (AQAR) OF THE IQAC

## PART – A

### 1. Details of the Institution

1.1 Name of the Institution

**Sree Vidyanikethan Engineering College (Autonomous)**

1.2 Address Line 1

Sree Sainath Nagar, A.Rangampet

Address Line 2

Chandragiri Mandal, Chittoor District

City/Town

Tirupati

State

Andhra Pradesh

Pin Code

517102

Institution e-mail address

svecp@vidyanikethan.edu

Contact Nos.

0877-2236711 (4 lines)

Name of the Head of the Institution:

**Dr. P.C. Krishnamachary**

Tel. No. with STD Code:

0877-2236600

Mobile:

+91-9160999961

Name of the IQAC Co-ordinator:

**Mr. B. Narendra Kumar Rao**

Mobile:

+91-9700688450

IQAC e-mail address:

iqac@vidyanikethan.edu

**1.3 NAAC Track ID (For ex. MHCOGN 18879) : APCOGN 15094**

**1.4 Website address:**

[www.vidyanikethan.edu](http://www.vidyanikethan.edu)

Web-link of the AQAR:

[http://www.vidyanikethan.edu/engineering/int\\_quality\\_assurance\\_cell\\_\(IQAC\).htm](http://www.vidyanikethan.edu/engineering/int_quality_assurance_cell_(IQAC).htm)

*For ex. <http://www.ladykeanecollege.edu.in/AQAR201213.doc>*

**1.5 Accreditation Details**

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	A	3.11	2013	5 Years
2	2 <sup>nd</sup> Cycle				
3	3 <sup>rd</sup> Cycle				
4	4 <sup>th</sup> Cycle				

1.6 Date of Establishment of IQAC : DD/MM/YYYY

02-07-2013

1.7 AQAR for the year (*for example 2010-11*)

2013-14

**1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC (*for example AQAR 2010-11 submitted to NAAC on 12-10-2011*)**

- i. AQAR **- Not Applicable -** (DD/MM/YYYY)
- ii. AQAR \_\_\_\_\_ (DD/MM/YYYY)
- iii. AQAR \_\_\_\_\_ (DD/MM/YYYY)
- iv. AQAR \_\_\_\_\_ (DD/MM/YYYY)

### 1.9 Institutional Status

University	State	<input type="checkbox"/>	Central	<input type="checkbox"/>	Deemed	<input type="checkbox"/>	Private	<input type="checkbox"/>
Affiliated College	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>				
Constituent College	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>				
Autonomous college of UGC	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>				
Regulatory Agency approved Institution (eg. AICTE, BCI, MCI, PCI, NCI)	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>				
Type of Institution	Co-education	<input checked="" type="checkbox"/>	Men	<input type="checkbox"/>	Women	<input type="checkbox"/>		
	Urban	<input type="checkbox"/>	Rural	<input checked="" type="checkbox"/>	Tribal	<input type="checkbox"/>		
Financial Status	Grant-in-aid	<input type="checkbox"/>	UGC 2(f)	<input checked="" type="checkbox"/>	UGC 12B	<input checked="" type="checkbox"/>		
	Grant-in-aid + Self Financing	<input type="checkbox"/>	Totally Self-financing	<input checked="" type="checkbox"/>				

### 1.10 Type of Faculty/Programme

Arts	<input type="checkbox"/>	Science	<input type="checkbox"/>	Commerce	<input type="checkbox"/>	Law	<input type="checkbox"/>	PEI (Phys Edu)	<input type="checkbox"/>
TEI (Edu)	<input type="checkbox"/>	Engineering	<input checked="" type="checkbox"/>	Health Science	<input type="checkbox"/>	Management	<input type="checkbox"/>		
Others (Specify)	<input type="text" value="Master of Computer Applications"/>								

1.11 Name of the Affiliating University (*for the Colleges*)

Jawaharlal Nehru Technological University  
Anantapur (JNTUA), Ananthapuramu, A.P.

1.12 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc : NA

Autonomy by State/Central Govt. / University



University with Potential for Excellence

UGC-CPE

DST Star Scheme	<input type="text" value="---"/>	UGC-CE	<input type="text" value="---"/>
UGC-Special Assistance Programme	<input type="text" value="---"/>	DST-FIST	<input checked="" type="checkbox"/>
UGC-Innovative PG programmes	<input type="text" value="---"/>	Any other ( <i>Specify</i> )	<input type="text" value="---"/>
UGC-COP Programmes	<input type="text" value="---"/>		

## 2. IQAC Composition and Activities

2.1 No. of Teachers	<input type="text" value="5"/>
2.2 No. of Administrative/Technical staff	<input type="text" value="5"/>
2.3 No. of students	<input type="text" value="2"/>
2.4 No. of Management representatives	<input type="text" value="1"/>
2.5 No. of Alumni	<input type="text" value="2"/>
2.6 No. of any other stakeholder and community representatives	<input type="text" value="1"/>
2.7 No. of Employers/ Industrialists	<input type="text" value="1"/>
2.8 No. of other External Experts	<input type="text" value="1"/>
2.9 Total No. of members	<input type="text" value="18"/>
2.10 No. of IQAC meetings held	<input type="text" value="2"/>
2.11 No. of meetings with various stakeholders:	No. <input type="text" value="2"/> Faculty <input type="text" value="3"/>
	Non-Teaching Staff <input type="text" value="2"/> Students <input type="text" value="2"/> Alumni <input type="text" value="2"/> Others <input type="text" value="1"/>
2.12 Has IQAC received any funding from UGC during the year?	Yes <input type="text" value="---"/> No <input checked="" type="checkbox"/>
If yes, mention the amount	<input type="text" value="---"/>

### 2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos.  International  National  State  Institution Level  2

(ii) Themes

Outcome Based Education Principles

### 2.14 Significant Activities and contributions made by IQAC

1. Establish and implement quality benchmarks for academic and administrative activities
2. Arrange for feedback from different stakeholders, analyze and suggest remedial actions.
3. Organize awareness and development programs on total quality.
4. Ensure maintenance of institutional database through MIS.
5. Conduct periodic audits of academic and administrative units for quality assessment.

### 2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year\*

Plan of Action	Achievements
<ol style="list-style-type: none"><li>1. Prepare Annual Quality Assurance Report (AQAR) as per norms and submit it to NAAC periodically.</li><li>2. Planning of awareness and Development Programs on quality till December, 2013.</li><li>3. Maintenance of Institutional database.</li><li>4. Preparation of audit format</li></ol>	YES, Implemented

2.15 Whether the AQAR was placed in statutory body

Yes



No



Management

Syndicate

Any other body

Provide the details of the action taken

The Governing Body approved the AQAR for the year 2013-14 for submitting it to NAAC.

## PART – B

### CRITERION – I

#### 1. CURRICULAR ASPECTS

##### 1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	-	2	2	-
PG	9	-	9	-
UG	9	-	9	-
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others	-	-	-	-
<b>Total</b>	18	2	20	-
Interdisciplinary				
Innovative				

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options  
**Core / Elective Option**

(ii) Pattern of programmes: The Institution follows annual system for I year B.Tech; and semester system for II, III and IV year B.Tech and P.G. Courses.

Pattern	Number of programmes
Semester	18
Trimester	-
Annual	9

1.3 Feedback from stakeholders\*

(On all aspects)

Mode of feedback :

Alumni  Parents  Employers  Students   
 Online  Manual  Co-operating schools (for PEI)

**1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.**

No, the College is implementing SVEC-10 regulations for B.Tech and M.Tech Programs. However, the Institution is preparing itself for revision of regulations from Academic Year 2014-15 and updating the curriculum and syllabi.

**1.5 Any new Department/Centre introduced during the year. If yes, give details.**

Establishment of Research Centers in EEE & ECE Departments, recognized by JNTUA, Anantapur

**CRITERION – II**

**2. TEACHING, LEARNING AND EVALUATION**

2.1 Total No. of permanent faculty	<b>Total</b>	<b>Asst. Professors</b>	<b>Associate Professors</b>	<b>Professors</b>	<b>Others</b>
	351	261	22	30	38

2.2 No. of permanent faculty with Ph.D.	58
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2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year	<b>Asst. Professors</b>		<b>Associate Professors</b>		<b>Professors</b>		<b>Others</b>		<b>Total</b>	
	<b>R</b>	<b>V</b>	<b>R</b>	<b>V</b>	<b>R</b>	<b>V</b>	<b>R</b>	<b>V</b>	<b>R</b>	<b>V</b>
	61	-	-	-	-	-	-	-	61	-

2.4 No. of Guest and Visiting faculty and Temporary faculty	---	---	---
---	-----	-----	-----

2.5 Faculty participation in conferences and symposia (2013-14):

<b>No. of Faculty</b>	<b>International level</b>	<b>National level</b>	<b>State level</b>
Attended Seminars/ Workshops	10	364	--
Presented papers	37	39	--
Resource Persons	--	15	--



## 2.6 Innovative processes adopted by the institution in Teaching and Learning:

- ❖ Assessing the background and interests of the students through diagnostic tests
- ❖ Elucidating the course objectives to the students
- ❖ Linking the fundamentals with scope while dealing course content
- ❖ Bringing integration between theoretical concepts and experimental demonstrations.
- ❖ Relating fundamentals with problem solving techniques in teaching
- ❖ Providing logic based information relevant to the concepts
- ❖ Illustrating with examples, designing models, validation and applications.
- ❖ Usage of modern aids and ICT for better learning experiences and improved teaching productivity.
- ❖ Creating interactive environment thereby providing students to think and reflect
- ❖ Tutorials sessions for advice, understanding and practice
- ❖ Creating live groups and provide assignments for analysis and research
- ❖ Evaluation through continuous formative and summative assessments

2.7 Total No. of actual teaching days during this academic year

192

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

The Institution practices continuous evaluation procedures. This consists of diagnostic tests, formative assessments, summative assessments. The assessments is made both internally and externally. The year/semester-end answer scripts are evaluated by external examiners. Recounting, Revaluation and personal identification for verification and addressal of discrepancies, if any.

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

87	87	--
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2.10 Average percentage of attendance of students

80%

2.11 Course/Programme wise distribution of pass percentage:

(2014 passed out batch)

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
B.Tech - CE	66	30	19	9	-	87.88
B.Tech - EEE	133	92	30	4	-	94.74
B.Tech - ECE	139	105	28	3	-	97.84
B.Tech - CSE	138	78	47	5	-	94.20
B.Tech - EIE	122	60	40	4	-	84.25
B.Tech - IT	121	75	35	5	-	95.05
B.Tech - EConE	50	30	14	1	-	90.00
B.Tech - CSSE	62	28	23	7	-	93.55
B.Tech - BOT	12	7	1	1	-	75.00
M.Tech - BOT	16	13	3	-	-	100
M.Tech - CS	23	13	10	-	-	100
M.Tech - EPS	16	12	4	-	-	100
M.Tech - SE	13	13	-	-	-	100
M.Tech - DECS	17	14	3	-	-	100
M.Tech - VLSI	23	22	1	-	-	100
M.Tech - CMS	13	13	-	-	-	100
M.Tech - CNIS	13	12	1	-	-	100
MCA	104	71	32	1	-	100

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes :

IQAC contributes, monitors and evaluates the teaching-learning process.

Contribution: The IQAC plans and suggests the teaching-learning styles to be adopted.

Monitoring : The periodic meetings of IQAC deliberates on teaching quality through feedback and monitors learning through the student academic performance and results.

Evaluation : The teaching-learning is evaluated through the Annual audits conducted in all the departments by the IQAC sub-committee.

## 2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	30
UGC – Faculty Improvement Programme	--
HRD programmes	15
Orientation programmes	50
Faculty exchange programme	--
Staff training conducted by the university	--
Staff training conducted by other institutions	120
Summer / Winter schools, Workshops, etc.	251
Others	49

## 2.14 Details of Administrative and Technical staff (2013-14)

<b>Category</b>	<b>Number of Permanent Employees</b>	<b>Number of Vacant Positions</b>	<b>Number of permanent positions filled during the Year</b>	<b>Number of positions filled temporarily</b>
Administrative Staff	20	--	7	--
Technical Staff	55	--	18	--

## CRITERION -III

### 3. RESEARCH, CONSULTANCY AND EXTENSION

#### 3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

The IQAC Recommends the following :

- The faculty with eminence and experience in research are recruited
- Organizing research development programs to enhance awareness and competence in research for faculty and students.
- Establishing advanced laboratories with sophisticated equipments and software for the benefit of faculty and student research activities.
- Provision of knowledge resources for research in terms of Journals, Books, and relevant digital content.
- Facilitating faculty and students with advanced computing facilities and high speed internet connectivity.
- Institution of College Research Mentoring Committee with pioneering researchers from reputed Institutions and Industry to guide and monitor the research progression.
- Formation of research clusters in thrust areas of research.
- Organizing technical and research talks periodically to create vibrant research culture among the groups.
- Encouraging faculty and students to present/participate in National and International events pertaining to research.
- Adequate financial support to each department as seed grant for research endeavors.
- Encouraging faculty to submit proposals for external funding agencies for undertaking research and modernization of research infrastructure.
- Faculty and students are rewarded with incentives for their research achievements.
- Members of faculty are provided with leave and financial support for undertaking Doctoral and post doctoral works.

#### 3.2 Details regarding major projects

(Rs. in lakhs)

	<b>Completed</b>	<b>Ongoing</b>	<b>Sanctioned</b>	<b>Submitted</b>
Number	--	4	4	10
Outlay in Rs. Lakhs	--	61.9	61.9	--

#### 3.3 Details regarding minor projects

	<b>Completed</b>	<b>Ongoing</b>	<b>Sanctioned</b>	<b>Submitted</b>
Number	-	-	-	12
Outlay in Rs. Lakhs	-	-	-	-

### 3.4 Details on research publications

	International	National	Others
Peer Review Journals	119	13	--
Non-Peer Review Journals	--	--	--
e-Journals	119	13	--
Conference proceedings	37	39	

### 3.5 Details on Impact factor of publications:

Range  Average  h-index  Nos. in SCOPUS

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations.

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	2013-14	DST-FIST, DST, INUP (IITB),	61.9 lakhs	15 lakhs
Minor Projects	--	-	-	-
Interdisciplinary Projects	--	-	-	-
Industry sponsored	--	-	-	-
Projects sponsored by the University/ College	--	-	-	-
Students research projects <i>(other than compulsory by the University)</i>	--	-	-	-
Any other(Specify)	--	-	-	-
<b>Total</b>	--	--	<b>61.9 lakhs</b>	<b>15 lakhs</b>

3.7 No. of books published i) With ISBN No.  Chapters in Edited Books

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SAP	<input type="text" value="-"/>	CAS	<input type="text" value="-"/>	DST-FIST	<input type="text" value="1"/>
DPE	<input type="text" value="-"/>			DBT Scheme/funds	<input type="text" value="-"/>
	<input type="text" value="✓"/>		<input type="text" value="-"/>		<input type="text" value="-"/>

3.9 For colleges      Autonomy       CPE       DBT Star Scheme   
    INSPIRE       CE       Any Other (specify)

3.10 Revenue generated through consultancy     

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	1	1			
Sponsoring agencies	Under TEQIP	Under TEQIP			

3.12 No. of faculty served as experts, chairpersons or resource persons     

3.13 No. of collaborations      International       National       Any other

3.14 No. of linkages created during this year     

3.15 Total budget for research for current year in lakhs:

From Funding agency            From Management of University/College        
 Total     

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	--
	Granted	--
International	Applied	--
	Granted	--
Commercialised	Applied	--
	Granted	--

3.17 No. of research awards/ recognitions received by faculty and research fellows of the institute in the year

Total	International	National	State	University	Dist	College
-	-	-	-	-	-	-

3.18 No. of faculty from the Institution        
    who are Ph. D. Guides

   and students registered under them

3.19 No. of Ph.D. awarded by faculty from the Institution

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF  SRF  Project Fellows  Any other

3.21 No. of students Participated in NSS events:

University level  State level   
National level  International level

3.22 No. of students participated in NCC events:

University level  State level   
National level  International level

3.23 No. of Awards won in NSS:

University level  State level   
National level  International level

3.24 No. of Awards won in NCC:

University level  State level   
National level  International level

3.25 No. of Extension activities organized

University forum  College forum   
NCC  NSS  Any other

### **3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility**

- The curriculum adopted by the institution has inbuilt flexibility to train the students not only to excel in the fields of engineering and technology but also imbibe a sense of social responsibility for national development.
- The activities of NSS create awareness on the relevance of social justice and empowerment of under privileged sections, particularly women and children for healthy development of the community.
- Army Green, the green initiative works in the College neighbourhood in environment sensitization and awareness.
- The Institution organizes blood donation camps and medical camps in the College neighbourhood.

## CRITERION-IV

### 4. INFRASTRUCTURE AND LEARNING RESOURCES

#### 4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	30.2 Acres		Self	30.2 Acres
Class rooms	78		Self	
Laboratories	133		Self	
Seminar Halls	10		Self	
No. of important equipments purchased ( $\geq$ 1-0 lakh) during the current year.	13		Self	
Value of the equipment purchased during the year (Rs. in Lakhs)	Rs. 106.32 lakhs		Self	
Others			Self	

#### 4.2 Computerization of administration and library

The Institution is using a ERP solution EzSchool for complete automation of the academic, administrative and financial activities. The Management is planning to develop a new ERP solution – NIVA for better transparency and effective administration.

#### 4.3 Library Services:

	Existing		Newly added		Total	
	No.	Value (Rs.)	No.	Value (Rs.)	No.	Value (Rs.)
Text Books	68210	16097560	7630	1701490	75840	17799050
Reference Books	13864	3316336	1066	234511	14930	3550847
e-Books	-	-	-	-	-	-
Journals	172	382508	178	294894	350	677402
e-Journals	225	294894	179	429620	404	724514
Digital Database	-	-	-	-	-	-
CD & Video	2800	-	104	-	2904	-
Others (specify)	NPTEL					



#### 4.4 Technology up gradation (overall)

	<b>Total Computers</b>	<b>Computer Labs</b>	<b>Internet</b>	<b>Browsing Centres</b>	<b>Computer Centres</b>	<b>Office</b>	<b>Departments</b>	<b>Others</b>
Existing	1419	-	40 mbps	-	-	-	-	-
Added	150	-	30 mbps	-	-	-	-	-
Total	1569	-	70 mbps	-	-	-	-	-

#### 4.5 Computer, Internet access, training to teachers and students and any other programme for technology up gradation (Networking, e-Governance etc.)

Management provides adequate computers at faculty rooms for the teachers use with access to the internet and students are also allowed to use computers at central computing centre, department library and digital library.

#### 4.6 Amount spent on maintenance in lakhs:

i) ICT	Rs. 7.1 lakhs
ii) Campus Infrastructure and facilities	Rs. 276.41 lakhs
iii) Equipments	Rs. 119.22 lakhs
iv) Others	Rs. 3036.88 lakhs
<b>Total :</b>	Rs. 3439.61 lakhs

## CRITERION – V

### 5. STUDENT SUPPORT AND PROGRESSION

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

The IQAC regularly in its meetings plan and review the quality of services offered in

- Teacher-ward system for counseling,
- Training and placement,
- Parent-teacher interactions,
- Grievance redressal cell,
- Student welfare fund,
- Facilitating the sanction and disbursement of social welfare scholarships,
- Fee waiver/concessions for poor and deserving students

#### 5.2 Efforts made by the institution for tracking the progression

The Institution monitors the progression of students through

- Continuous evaluation system
- Diagnostic tests
- Formative assessments
- communicating performance evaluation of students as progress reports to parents periodically
- Comprehensive valuation of training for placement and higher studies

#### 5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
4224	567	1	-

(b) No. of students outside the state

--

(c) No. of international students

--

No	%
2768	57.76

Men

No	%
2024	42.23

Women

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1943	478	144	1732	-	4297	2033	472	143	1717	-	4365

Demand ratio

Dropout % Nil

#### 5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- The Library has provision for back volumes. Also, a good number of general books on literature and books useful for various competitive examinations are available in the library.
- Many of the UG and PG students have cleared GATE/GRE/ TOFEL/Central/State Competitive examinations and are pursuing higher education and careers in India and abroad

No. of students beneficiaries

120

#### 5.5 No. of students qualified in these examinations

NET  SET/SLET  GATE  CAT

IAS/IPS etc  State PSC  UPSC  Others

#### 5.6 Details of student counselling and career guidance

The mentor-mentee system facilitates the students in addressing their academic problems, encouraging them to excel and motivates them towards higher education and career development.

The mentors are entrusted with the responsibility of counseling students on academic and career prospects. The women members of faculty counsel the women students separately as and when needed. All the students are counseled thrice in a semester.

The Institution adopts mentor-mentee system where each faculty member is allotted 20 students whose academic progression is monitored and the slow learners are counseled to improve upon their performance by counseling. All members of faculty involve themselves in counseling activities twice in a semester or as often as required.

**Career Guidance:**

The Institution established a mentor – ward system through which each teacher mentor is allotted with a batch of 20 students. The mentoring includes personal, academic and career orientation. The counseling of students to take up higher studies and career by attempting national and international exams such as GATE, GRE, TOEFL, IELTS, CAT. Also orientation is given for students to prepare themselves for Indian Administrative Services, Group, Public Sector Organization and Industries.

No. of students benefitted

338

**5.7 Details of campus placement**

<i>On campus</i>			<i>Off Campus</i>
<b>Number of Organizations Visited</b>	<b>Number of Students Participated</b>	<b>Number of Students Placed</b>	<b>Number of Students Placed</b>
25	820	356	6

**5.8 Details of gender sensitization programmes**

The Institution organizes programmes related to gender equity to sensitize the students and faculty. Special sessions on gender equality are also conducted. Gender equity is ensured by implementing the G.O's issued by the Government of Andhra Pradesh. The campus is characterized by cultural, racial, and gender diversity among faculty, staff, and students supported by practices and programs that embody the ideals of an open and democratic society.

**5.9 Students Activities**

5.9.1 No. of students participated in Sports, Games and other events

State/ University level

30

National level

--

International level

--

No. of students participated in cultural events

State/ University level

108

National level

International level

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports : State/ University level  National level  International level

Cultural: State/ University level  National level  International level

**5.10 Scholarships and Financial Support**

	Number of students	Amount
Financial support from institution	258	60,07,875
Financial support from government	3017	10,00,94,900
Financial support from other sources	86	82,56,000
Number of students who received International/ National recognitions	--	--

5.11 Student organised / initiatives

Fairs : State/ University level  National level  International level

Exhibition: State/ University level  National level  International level

5.12 No. of social initiatives undertaken by the students

5 (Through Technical Associations)

5.13 Major grievances of students (if any) redressed: Nil

## CRITERION – VI

### 6. GOVERNANCE, LEADERSHIP AND MANAGEMENT

#### 6.1 State the Vision and Mission of the institution

**Vision:** To be one of the Nations’s premier Engineering Colleges by achieving the highest order of excellence in Teaching and Research.

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

#### 6.2 Does the Institution has a management Information System

Yes, the Institution is using an ERP solution called EzSchool for automation. Also the Institution uses NPIU MIS portal for TEQIP implementation. MIS portal has facilitated the Institution to streamline the data under various heads. The Institution has entered all the details pertaining to the years 2010 – 2011, 2011 – 2012, 2012 – 2013 and for the year 2013 – 2014 is in progress. The data information in the portal has facilitated the Institution, NPIU and APSPFU to monitor the activities of the Institution, easy assessment and facilitate speedy fund disbursal. The Institution is one among the few Institutions which has completely complied with the statutory requirements of all the criteria in the MIS.

#### 6.3 Quality improvement strategies adopted by the institution for each of the following:

##### 6.3.1 Curriculum Development

The Vision and Mission of the Department defined based on the Vision and Mission of the Institution forms the basis for establishing PEOs and POs of the program. These form the indicators for the development of the program curriculum.

The Chairman, BOS initiates the process of curriculum design, development and update. The stakeholders of the program - students, parents, alumni, teachers, apex agencies, employers and industry inputs are collected and documented.

The data is discussed in meeting of internal experts of the BOS to evolve the necessary inputs for the design of program curriculum.

Draft course content is prepared by individual faculty experts and is reviewed by the group coordinators. These are discussed and reviewed by external experts of reputed Institutions such as NIT's and IITs. The necessary suggestions are incorporated and the draft course content is made ready.

The syllabi, teaching-learning activities, faculty development, student development and research activities are all put up as the agenda for the meeting of BOS. The external experts in the BOS also peruse and suggest for the design and development of program curriculum.

The approved curriculum of BOS is put up for the discussion and approval of the academic council. It is then proposed for approval in the Governing Body meeting. The approved program curriculum is implemented for the program by the Department.

### **6.3.2 Teaching and Learning**

#### **Teaching**

- Recruit faculty and encourage them for continuing education for qualification and skills upgradation.
- Motivate faculty to undertake research and consultancy for quality outputs and internal revenue generation.
- Develop a culture of pedagogy that leads to demonstrable student learning.
- Train all the faculty to current pedagogical approaches and introduce State-Of-The-Art technologies in teaching and learning.
- Increase financial support and provide leave facilities for the faculty to upgrade qualifications, attend seminars and conferences, undergo pedagogical training and interact with academic peers and keep abreast with the emerging trends in Engineering and Technology.
- Retaining the faculty by encouraging them through facilities and incentives for outstanding performance.

**Learning:**

- Student learning styles
- Awareness on diversity of students
- Curricular structure
- Peer and Expert Interaction, and
- Learning Assessment Methods

**6.3.3 Examination and Evaluation**

- Continuous evaluation
- Diagnostic tests
- Formative tests
- Summative tests
- Assignments
- Internal and external evaluation

**6.3.4 Research and Development**

- Recruit faculty with high potential for research.
- Increase funding support for faculty research and creative endeavors.
- Seek avenues for collaborative research with industry, other universities, State and Central Government agencies.
- Provide innovative modern facilities and laboratories for multidisciplinary research for faculty and students.
- Promote increased faculty participation in research, consultancy and sponsored projects.
- Provide financial support and scholarships for Post graduate and Doctoral students to encourage research.
- Create Department wise centres to market the services and products to the industry, thereby generating internal revenue.



### **6.3.5 Library, ICT and physical infrastructure / instrumentation**

- Establish linkages and seek funding from public and private agencies to create infrastructure for research and consultancy.
- Develop the campus for faculty, staff and students for distinctive teaching-learning environment.
- Enhance the educational environment through transformation of academic and non-academic units with latest infrastructure and technologies.
- Create modern educational environment to bridge the industry and academic environment by industry participation and collaboration.

### **6.3.6 Human Resource Management**

- a) Before commencement of every academic year the faculty and staff requirements are assessed and the vacancies are advertised in leading dailies besides placing the same in the Institution's website. Duly constituted selection committees recruit the faculty and staff.
- b) The faculty and staff requirements are assessed based on the workload as per the AICTE norms.
- c) The Institution encourages fresh post graduates and doctorates who have passion for teaching. However, faculty and staff with previous experience in other Institutions are given weight age in the selections in deserving cases.

### **6.3.7 Faculty and Staff recruitment**

- Wide Publicity in Newspapers
- Web Notifications
- Recruitment through expert selection committees
- Process includes demonstration and interviews

### 6.3.8 Industry Interaction / Collaboration

- Inviting senior industry personnel as adjunct faculty and their contribution to curriculum design, assessment and delivery of expert lectures.
- Interaction with industry to provide opportunities to students by exposing to new technologies and problem-solving projects.
- Guidance from industry for the Institution in developing laboratories, provide software and information in latest technologies.
- Collaborate with industry in joint educational programs and R & D activities.
- Training faculty and staff in latest technologies in the industry.
- Enhance employability of students by training in technical and managerial skills and provide placement opportunities.

### 6.3.9 Admission of Students

The institution has an active website ([www.vidyanikethan.edu](http://www.vidyanikethan.edu)) which is updated regularly and all the details of the institution are placed on the website. In addition, wide publicity is given through news papers (regional and national) about the admissions and related matters.

All admissions into all courses of study offered are strictly made as per the guidelines of APSCHE with due weightage to meritocracy.

### 6.4 Welfare schemes for

<b>Teaching</b>	✓ Group Insurance Policy
<b>Non teaching</b>	✓ 50% of fee waives in campus for employee of SVEC.
<b>Students</b>	✓ Student Welfare Fund for fee waivers and concession. ✓ One way travel allowance for attending conferences & workshops.

6.5 Total corpus fund generated

80.50 lakhs

6.6 Whether annual financial audit has been done



Yes



No

6.7 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic			Yes	
Administrative			Yes	

6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes    Yes     No

For PG Programmes    Yes     No

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

- Revaluation
- Recounting
- Grading System
- External Evaluation
- Early publication of results online

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

Not Applicable

6.11 Activities and support from the Alumni Association

- Alumni Contributions:
- Mentoring the students of the Institution.
  - Feedback on Program Educational Objectives and Program Outcomes
  - Feedback on facilities.
  - Network for student placements and internships
  - Participation in Board of Studies for curriculum development

6.12 Activities and support from the Parent – Teacher Association

- Feedback on facilities
- Feedback on student progression
- Inputs on student and parent aspirations

#### 6.13 Development programmes for support staff

- Staff Development programs in skills and communications

#### 6.14 Initiatives taken by the institution to make the campus eco-friendly

- The Institution is practicing some of the eco-friendly process such as rain water harvesting by providing sinks in various places on the campus.
- The recycled water from the Sewage treatment plant is used for watering the trees and lawns on the campus.
- Periodic Energy audit
- Proposals for roof top solar power plants

## CRITERION – VII

### 7. INNOVATIONS AND BEST PRACTICES

**7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.**

- Constitution of Research Mentoring Committee,
- Internal audits for quality monitoring
- Outcome based education practices

**7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year.**

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**7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)**

1. Orientation classes are conducted before the commencement of the programme to raise the level of understanding.
2. Slow and advanced learners are identified through internal exams. Remedial classes are conducted for slow learners.
3. Subjects are allotted to faculty members based on their preferences before the commencement of the instruction.
4. Lesson plans are prepared by the faculty in accordance with the syllabus.
5. Teachers' performance is evaluated by the students through feedback. The feedback is analyzed and the faculty members are advised by the Head of the Department to improve their teaching skills, wherever necessary.

**7.4 Contribution to environmental awareness / protection**

<p>The NSS unit of the Institution conducts events like preservation of biodiversity and awareness on hazards in environmental pollution, which promotes sustained community development.</p>
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7.5 Whether environmental audit was conducted? Yes  No

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

Impelled by the dire need to provide quality Professional Education, Sree Vidyanikethan Educational Trust established Sree Vidyanikethan Engineering College in 1996 with three branches of Engineering. The College has made rapid progress during the last 19 years and endeared itself to all the stakeholders by its quality initiatives and practices.

The Institution has been consolidating its strengths while being conscious of its weaknesses. The outlook for identifying opportunities and threats is considered complimentary to the internal self-study in the SWOT Analysis.

**Strengths:**

- Conferment of Autonomy by University Grants Commission (UGC), New Delhi
- Accreditation of Programs by NBA, New Delhi
- Permanent Affiliation accorded by JNTUA, Anantapur
- Accreditation of the college with a top Grade 'A' by National Assessment and Accreditation Council (NAAC)
- Included in the list of colleges under 2(f) and 12 (B) of UGC Act 1956
- Implementation of TEQIP-II (Technical Education Quality Improvement Programme) grant of Rs. 4 Crores under Sub Component 1.1: Strengthening Institutions to improve learning outcomes and employability of graduates.
- External Statutory Audits and mentoring exercises were conducted to assess and direct the implementation and quality of the activities envisaged by the Institution
- Through comprehensive institutional training development plan all the members of faculty and staff are trained to enhanced competence in domain and relevant functional areas
- Proactive Management with transparency and decentralization of academic administration.
- Establishment of Research Centers in EEE & ECE Departments, recognized by JNTUA, Anantapur

- Wide range of programs offered in line with the Mission of the Institution.
- Include curriculum design, development and update for outcome based education.
- Enhanced interaction with national institutions and industry for faculty and student development
- Curriculum is supplemented with add-on/bridge courses, expert lectures, seminars and conferences in latest areas of Engineering and Technology.
- Live lecturers/Tutorials/Virtual Labs from IIT Madras, under Quality Enhancement of Engineering Education (QEEE) 'Direct-to-Student Programme'
- Well-planned teaching methodology and continuous evaluation of students.
- Student academic progression through tutorials, practical based learning, mini projects and courses on life skills besides remedial classes for slow learners.
- Quality intake of students.
- Students Technical Associations and chapters to provide a platform for enhancement of knowledge in latest areas of technology.
- Holistic personality development of students through various curricular, co-curricular and extracurricular activities
- Faculty recruitment through expert selection committees. Members of faculty are encouraged to upgrade their skills and qualifications by organizing Faculty Development Programs to enhance competence in domain and functional areas besides providing them leave facilities and incentives.
- To foster quality teaching, student feedback on teachers and self-appraisal of faculty is conducted every semester.
- Sprawling ambient green campus with modern infrastructure which is extremely conducive for curricular, co-curricular and extra curricular activities.
- Well equipped learning resources such as laboratories, library and computing centre.
- Networking of entire College Campus through Local Area Network.
- Uninterrupted power supply and Generators for backup facilities.

- Establishment of Atmospheric Research Laboratory, implementing a DST, Government of India Project with a fund of Rs. 20 lakhs
- Sanction of DST (Department of Science and Technology) grant of Rs. 20 lakhs under FIST Programme for promotion of Research
- Provision of facilities worth Rs. 15 lakhs to support research development by Indian Nanoelectronics Users Program (INUP), IIT Bombay
- Establishment of National MEMS Design Centre under the aegis of NPMASS and IISc, Bangalore
- Accreditation by Tata Consultancy Services (TCS) & Wipro Technologies for campus placements
- Vibrant Placement Activity with 90% of eligible students placed in reputed Multi National Companies.
- Brilliant Alumni occupying prestigious positions in India and abroad.
- Significant placement rate of students in IT & Core Companies.
- Established linkages with neighboring Universities and reputed industries including Multinational companies for knowledge sharing and transfer.
- MoU with IBM and establishment of IBM Center of Excellence
- MoU with Infosys for Campus Connect Programme
- MoU with Civil-Aid Technoclinic Pvt. Ltd., My Home Constructions Pvt. Ltd., Satyavani Projects and Consultants Pvt. Ltd., and Innovative Development Solutions for transfer of technology and enhanced placements

**Weaknesses:**

- Research endeavors and consultancy is to be enhanced.
- Interaction with industry needs to be strengthened.
- Paucity of funds for establishing advanced laboratories for research and consultancy.
- Less entrepreneurial acumen among students owing to their rural background.



**Opportunities:**

- Offer new demand driven inter-disciplinary post graduate programs in emerging technologies.
- Offer more number of doctoral programs through University recognized Research Centers.
- Sustained interaction with industry for institution development.
- Attract and recruit more faculty from various disciplines.
- Introducing contemporary reforms into academic and administrative activities
- To modernize classrooms to make use of Information and Communication Technology.
- Encourage the faculty to participate in national and international seminars/symposia.
- Establishment of Department Research Centres and enhance consultancy activities for Internal Revenue Generation.
- Complete digitalization of Library and extending the Library services to Research Centers, Departments and Hostels.
- Through networking, interaction can be developed with National and International Agencies for knowledge resources and dissemination.
- To conduct orientation and awareness programs on entrepreneurial skills for students of our College and in neighborhood Colleges.
- Training the faculty of other small Colleges in the neighborhood besides Institutional Faculty Development.

**Threats:**

- Due to attractive jobs in industry, enrolment for M.Tech and Ph.D is minimal causing the scarcity of qualified faculty in Engineering & Technology.
- Fast changing technology and emergence of new specializations in Engineering & Technology leading to ever-changing demands of the industry.
- Continuous and dynamic demands from industry in student learning outcomes
- Fast emerging trends in higher education.
- Multiple apex regulatory bodies having different norms for accreditation and governance of Institutions.

The Institution is aware of a few weaknesses consciously viewed as opportunities for improvement and is forging ahead with its proven strengths. The College can avail itself of opportunities and perceive threats as challenges to excel by seeking external funding and generating internal resources.

## 8. Plans of institution for next year

- Quality assurance and endurance through Accreditation by NBA
- Sustain and enhance excellence in teaching and learning
- Development of effective information and educational technologies
- Increasing research & development and consultancy competence
- Enhanced interaction with industry
- Facilities improvement and expansion
- Expanding local, regional and national outreach
- Governance, Leadership and Accountability

**Mr.B.NARENDRA KUMAR RAO**

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