

# **ANNUAL QUALITY ASSURANCE REPORT (AQAR)**

## **2016 - 2017**

*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, Programs 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 - 3066900, 3066901  
0877 – 2236711-14 (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:

**Dr. 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

**Web-link of the AQAR:**

http://svec.education/wp-content/programs/IQAC/AQAR-Report-2016-17.pdf

*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)**

2016-17

**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 submitted on 30/12/2015
- ii. AQAR submitted on 31/12/2015
- iii. AQAR submitted on 27/09/2017

### 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	<input type="text" value="UGC, New Delhi"/>	<input checked="" type="checkbox"/>
University with Potential for Excellence	<input type="checkbox"/>	UGC-CPE <input checked="" type="checkbox"/>

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="TEQIP-II"/>
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="1"/> Faculty <input type="text" value="1"/>
	Non-Teaching Staff <input type="text" value="1"/> Students <input type="text" value="1"/> Alumni <input type="text" value="1"/> Others <input type="text" value="-"/>
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

(ii) Themes

Quality practices in Teaching-Learning and Research

### 2.14 Significant Activities and contributions made by IQAC

1. Monitoring the submission of quality research proposals for grants to different funding agencies
2. Facilitating Placement Training and assessment by external agencies for improved placement potential among students.
3. Providing scope for Research Mentoring and plans for establishing research centres at institute level were finalized.
4. Performing Academic audits in all the departments

### 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
1. Auditing the departments of the Institution. 2. Quality development awareness and orientation programs 3. Advising for quality teaching-learning and evaluation systems 4. Augment of Research and consultancy.	YES, Attained

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 2016-17 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	3	-	3	-
PG	8	-	8	-
UG	8	-	8	-
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others	-	-	-	-
Total	19	-	19	-
Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

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

**Choice Based Credit System/Core / Professional Elective / Interdisciplinary courses/  
Open Electives/GAP Year/ MOOC**

(ii) Pattern of programmes: The Institution follows semester system for B.Tech and P.G. Courses.

Pattern	Number of programmes
Semester	16
Trimester	-
Annual	-

**1.3** Feedback from stakeholders\*

*(On all aspects)*

Alumni  Parents  Employers  Students

Mode of feedback : 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.**

Yes, the College has revised the regulations and updated the syllabi of all the UG & PG programs. Introduction of Choice Based Credit System/Core / Professional Elective / Interdisciplinary courses/ Open Electives/ GAP Year/ MOOC and also preparing the curriculum in line with familiar American Professional Educational Societies.

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

- NA -



## CRITERION – II

### 2. TEACHING, LEARNING AND EVALUATION

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
448	379	38	31	--

2.2 No. of permanent faculty with Ph.D.

95
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2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
45	-	18	-	6	-	-	-	69	-

2.4 No. of Guest and Visiting faculty and Temporary faculty

---	03	---
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2.5 Faculty participation in conferences and symposia (2016-17):

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	77	544	147
Presented papers	173	50	1
Resource Persons	8	7	18

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

- Monitoring Teaching-Learning outcomes through CO-PO and PSO based Attainments in Outcome Based Education format.
- IITM – QEEE sessions IIT Madras has recognized the College as ‘**Best College Partner**’ for QEEE ‘Direct-to-Student Programme’. This programme offers live lectures/Tutorials/Virtual Labs from IIT Madras. The details of QEEE Live Classes are presented below:

#### QEEE – Phase - VI (2016- 17 Odd Semester):

S.No.	Offering Course by QEEE	Name of the IIT Faculty	Relevant Course in SVEC Syllabus	Year & Branch	Local Faculty Name	No. of Student Beneficiaries
1.	Moving Loads and Influence Lines - Analysis of Structures	Prof. Arghadeep Laskar, IITB	Structural Analysis-II	III B.Tech. I Sem. (CE-B)	Mr. D V Purushotham CE	75

S.No.	Offering Course by QEEE	Name of the IIT Faculty	Relevant Course in SVEC Syllabus	Year & Branch	Local Faculty Name	No. of Student Beneficiaries
2.	Shear Force and Bending Moment Diagrams - Strength of Materials	Prof. Nirjhar Dhang, IITKGP	Mechanics of Solids	II B.Tech. I Sem. (CE-B)	Mr. M. Gokulnath, CE	73
3.	Cloud Technology Overview –Cloud Computing	Prof. S C Gupta, IITD	Cloud Computing	IV B.Tech. I Sem. (IT-A)	Mr. N. Jaswanth, IT	110
				IV B.Tech. I Sem. (IT-B)	Mr. A. Srinivasulu, IT	
4.	Network Layer - Computer Networks	Prof. Manjunath D, IITB	Computer Networks	III B.Tech. I Sem. (IT-A)	Mr. B. Bhaskar Kumar Rao, IT	105
				III B.Tech. I Sem. (IT-B)	Mr. A. Srinivasulu, IT	
5.	Non-linear Data Structures and Applications - Data Structures and Algorithms	Prof. Supratim Biswas, IITB	Data Structures	II B.Tech. I Sem. (CSSE-A)	Dr. M. Naresh Babu, CSSE	119
				II B.Tech. I Sem. (CSSE-B)	Mr. T. Bala Krishna, CSSE	
6.	Combinational and Sequential Circuit Design - Digital IC Design	Prof. Nitin Chandra choodan, IITM	Digital IC Applications	III B.Tech. I Sem. (ECE-C)	Ms. M. Bharathi, ECE	68
7.	Maxwell Equations	Prof. B. K. Das, IITM	Antennas and Propagation	III B.Tech. I Sem. (ECE-B)	Ms. K. Sudha, ECE	70
8.	Microprocessors and Microcontrollers - Memory Mapping and Peripheral Interfacing	Prof. Ashok Jhunjhunwala, IITM	Microprocessors and Interfacing	III B.Tech. I Sem. (CSE)	Mr. K. Jeevan Pradeep CSE	103
			Microprocessors & Microcontrollers	III B.Tech. I Sem. (EEE)	Mr. B Subba Reddy, EEE	
9.	Gear - Kinematics and Dynamics of Machinery / Theory of Machines	Prof. Abhijit Sarkar, IITM	Dynamics of Machinery	III B.Tech. I Sem. (ME-A)	Mr. R. L. Krupakaran, ME	137
<b>Total</b>						<b>860</b>

**QEEE - Phase VII (2016- 17 Even Semester):**

<b>S. No.</b>	<b>Offering Course by QEEE</b>	<b>Name of the IIT Faculty</b>	<b>Relevant Course in SVEC Syllabus</b>	<b>Year &amp; Branch</b>	<b>Local Faculty Name</b>	<b>No. of Student Beneficiaries</b>
1.	Transformer - Electrical Machines	Prof. Bhuvaneshwari G, Delhi	Transformers and Induction Machines	II B.Tech. II Sem. (EEE-D)	Mr. T. Kosaleswara Reddy, EEE	60
2.	Gears and Gear Trains - Kinematics of Machines	Prof. Abhijit Sarkar, IITM	Kinematics of Machinery	II B.Tech. II Sem. (ME-A)	Dr. T. Hari Prasad, ME	70
3.	Software Process and Management - Software Engineering	Prof. Rajib Mall, IITKGP	Software Project Management	III B.Tech. II Sem. (CSE-C)	Mr. T. Gnanaprakasam, CSE	66
4.	Fundamentals of Laplace Transform - Engineering Mathematics	Prof. Gopal Srinivasan, IITB	Signals and Systems	II B.Tech. II Sem. (EIE-A)	Mr. G. Sreenivasulu, EIE	47
5.	Digital System Design - Digital Electronics	Prof. Venkatesh TG, IITM	Switching Theory and Logical Design	II B.Tech. II Sem. (ECE-B)	Mr. M. Naresh Babu, ECE	70
6.	Operator Overloading - Object Oriented Programming	Prof. Rupesh Nasre, IITM	Object Oriented Programming through C++	I B.Tech. II Sem. (CSSE-A)	Mr. A. Chandra, CSSE	57
7.	Design of Reinforced Concrete Beams - Design of concrete structures	Prof. Amit Shaw, Kharagpur	Reinforced Cement Concrete structures	III B.Tech. II Sem. (CE-B)	Mr. V. Mahesh, CE	75
8.	Pointers - Programming in C and Data Structures	Prof. Supratim Biswas, IITB	Data Structures	II B.Tech. II Sem. (IT-A)	Ms. V. Jyothsna, IT	68
9.	Solar DC	Prof. Ashok Jhunhunwala, IITM	Solar and Wind Energy Conversion Systems	III B.Tech. II Sem. (EEE C & D)	Dr. V. Arun, EEE	74
10.	Industry Bridge by CII – Internet of Things	Mr. Paul Sunder Singh	Internet of Things	III & IV B. Tech (CSE, CSSE, IT)	Mr. V. Lokanadham Naidu, IT	48
<b>Total</b>						<b>635</b>

- IITB - Spoken Tutorial program

**Spoken Tutorial Project (STP) - NMEICT - IIT Bombay:** The Institution has conducted training on C and Java under NMEICT – IIT Bombay during 2016-17. In total 150 students were certified in C and Java Programming.

Name of the FOSS	Branch	Date of Event Conducted	Type of Event	No. of Students Certified
C	CSSE	28-01-2017	Online Test Conducted	87
C	EEE	02-12-2016		25
Java	CSSE	18-08-2016		38

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

180
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2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

- |   |
|---|
| <ul style="list-style-type: none"> <li>➤ Recounting, Revaluation and personal identification</li> <li>➤ Question papers based on blooms taxonomy</li> <li>➤ Add-on formative assessments</li> </ul> |
|---|

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

108	108	--
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2.10 Average percentage of attendance of students

82%
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**2.11 Course/Programme wise distribution of pass percentage:***(2017 passed out batch)*

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
B.Tech - CE	145	88	35	9	-	<b>91.03</b>
B.Tech - EEE	215	137	56	12	-	<b>95.35</b>
B.Tech - ME	214	142	54	3	-	<b>92.99</b>
B.Tech - ECE	200	139	43	10	-	<b>96.00</b>
B.Tech - CSE	207	126	57	17	-	<b>96.62</b>
B.Tech - EIE	136	65	50	10	-	<b>91.91</b>
B.Tech - IT	109	59	30	10	-	<b>90.83</b>
B.Tech - CSSE	108	55	33	10	-	<b>90.74</b>
M.Tech - CS	19	19	-	-	-	<b>100</b>
M.Tech - EPS	22	19	3	-	-	<b>100</b>
M.Tech - DECS	6	6	-	-	-	<b>100</b>
M.Tech - VLSI	9	9	-	-	-	<b>100</b>
M.Tech - CMS	15	15	-	-	-	<b>100</b>
M.Tech - CNIS	4	4	-	-	-	<b>100</b>
MCA	56	50	6	-	-	<b>100</b>

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

IQAC contributes monitors and evaluates the teaching-learning process.

- Contribution : Proposing new methods of teaching and learning such as Flip and MOOC.
- Monitoring : Ensuring compliance of teaching learning process compliance with academic calendar
- Evaluation : Performance of faculty through Faculty performance appraisal and development system and measurement of student learning outcomes through Rubrics established for measurement of attainment levels of course outcomes, Program outcomes, program specific outcomes

### 2.13 Initiatives undertaken towards faculty development

<b>Faculty / Staff Development Programmes</b>	<b>Number of faculty benefitted</b>
Refresher courses	122
UGC – Faculty Improvement Programme	5
HRD programmes	-
Orientation programmes	67
Faculty exchange programme	-
Staff training conducted by the university	62
Staff training conducted by other institutions	2
Summer / Winter schools, Workshops, etc.	99
Others	664

### 2.14 Details of Administrative and Technical staff (2016-17)

<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	75	--	22	--
Technical Staff	95	--	17	--

## 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:

- Faculty interactions with Research Mentors/adjunct faculty appointed for monitoring and guiding on Research activities

#### List of Interactions :

S. No	Name of the Expert	Designation and Organization	Dates of Interaction	Duration (in hours)	Event Details
1	Dr.Lazar Mathew Advisor – Research	Former Director, DRDO	27 <sup>th</sup> to 30 <sup>th</sup> June, 2017	24	Research Advisory & Mentoring
			25 <sup>th</sup> Apr. to 1 <sup>st</sup> May 2017	42	
			16 <sup>th</sup> to 21 <sup>st</sup> Mar. 2017	36	
			8 <sup>th</sup> to 13 <sup>th</sup> Feb. 2017	36	
			23 <sup>rd</sup> to 28 <sup>th</sup> Jan. 2017	36	
			16 <sup>th</sup> to 20 <sup>th</sup> Dec. 2016	30	
			22 <sup>nd</sup> to 26 <sup>th</sup> Nov. 2016	30	
			21 <sup>st</sup> to 27 <sup>th</sup> Oct. 2016	42	
			26 <sup>th</sup> Sep. to 1 <sup>st</sup> Oct. 2016	36	
			26 <sup>th</sup> Aug. to 1 <sup>st</sup> Sep. 2016	42	
25 <sup>th</sup> to 30 <sup>th</sup> July, 2016	36				
7 <sup>th</sup> to 10 <sup>th</sup> July, 2016	24				
2	Dr. Madhusudan Atre, Adjunct faculty	CEO & Founder, Vegashakti Consultants, Bangalore Former Country Head – AMD India.	22 <sup>nd</sup> June 2017	6	Research Advisory & Mentoring
			18 <sup>th</sup> Apr. 2017	6	
			23 <sup>rd</sup> Mar. 2017	6	
			23 <sup>rd</sup> Feb. 2017	6	
			31 <sup>st</sup> Jan. 2017	6	
			19 <sup>th</sup> Jan. 2017	6	
			6 <sup>th</sup> Dec. 2017	6	
			02 <sup>nd</sup> Nov. 2017	6	
			22 <sup>nd</sup> Sep. 2016	6	
			09 <sup>th</sup> August 2016	6	
12 <sup>th</sup> July 2016	6				
3	Dr. Prahlada, Professor Emeritus	Padma Shri Awardee, Advisor, S- VYASA, Former Distinguished Scientist & CC R&D DRDO, Former Director, DRDL.	29 <sup>th</sup> May, 2017	6	Research Advisory & Mentoring
			19 <sup>th</sup> Apr. 2017	6	
			03 <sup>rd</sup> Mar. 2017	6	
			14 <sup>th</sup> Dec. 2016	6	
			11 <sup>th</sup> Nov. 2016	6	
			15 <sup>th</sup> Oct. 2016	6	
12 <sup>th</sup> to 13 <sup>th</sup> Aug. 2016	12				

➤ **Initiatives for establishment of Research Labs/Centres in the institution**

Institution has accorded approval to set-up the following Research facilities to augment research activities in advanced domains of Engineering and Technology. These labs will be established in the academic year 2017-18.

Sl. No.	Name of the facility	Team Leader	Budget approved (in Lakhs)
1.	Antenna Simulation Lab	Dr. V. R. Anitha	15.00
2.	Data Analytics Lab	Dr. K. Ramani	15.00
3.	Bio Signal Lab	Mr. Y. Dileep Kumar	7.00
4.	Water & Environmental Centre	Dr. M.V. Subba Reddy	20.00
5.	Micro machining Lab	Dr. K.C. Varaprasad	25.00
6.	Geotechnical Research Lab	Dr. O. Eswara Reddy	30.00
7.	Cyber Security and Cryptology Lab	Dr. M. Naresh Babu	13.00
8.	Center of Applied Renewable Energy	Dr. S. Farooq	45.30
<b>Total</b>			<b>170.30</b>

➤ Prepared Suggestive list of reputed journals at department level to improve quality of journal publications

➤ **Periodic Research cluster meetings in the departments**

Initiation has been taken to augment Research culture in the College and in this direction; Research Clusters were formed among all the departments. Currently, the College has 14 clusters. Further, it is planned to strengthen the existing clusters by involving UG and PG students to participate in the clusters.

**The following are the Research Clusters formed during 2016-17:**

S.No.	Name of the Cluster	Focus Areas
1.	MEMS	<ul style="list-style-type: none"> <li>• Micro Cantilevers</li> <li>• Bio Sensors</li> <li>• Energy Harvesting</li> <li>• Carbon Nanotubes</li> <li>• Gas Sensors</li> <li>• RF MEMS</li> </ul>
2.	VLSI & Embedded Systems	<ul style="list-style-type: none"> <li>• System-on-chip Design</li> <li>• Reconfigurable Computing</li> <li>• Intelligence Systems for on board Data Processing &amp; Control</li> <li>• Automotive Systems</li> <li>• Smart Cities, Medical &amp; Military Applications</li> </ul>
3.	Signal Processing	<ul style="list-style-type: none"> <li>• Digital Image Processing</li> <li>• Radar and Lidar Signal Processing</li> <li>• Bio-signal Processing</li> <li>• Speech Signal Processing</li> </ul>



S.No.	Name of the Cluster	Focus Areas
4.	Communications	<ul style="list-style-type: none"> <li>• Cognitive radio, Network protocol</li> <li>• 5G communication, Big data</li> <li>• OFDM and 4G communication</li> <li>• Efficient communication for telemedicine</li> </ul>
5.	Energy Systems	<ul style="list-style-type: none"> <li>• Solar, Wind &amp; PV Integration.</li> <li>• Energy storage and management systems.</li> <li>• Energy Harvesting;</li> <li>• Renewable / Alternate energy</li> <li>• Solar Thermal Energy Technology and Energy Material Development</li> </ul>
6.	Power Systems	<ul style="list-style-type: none"> <li>• Power Quality</li> <li>• Voltage stability, SVC compensation and Soft Computing techniques applied to power systems</li> <li>• Contingency analysis, state estimation and optimal operation.</li> <li>• Power Electronics applied to power systems</li> <li>• Smart Grid and Micro Grid</li> </ul>
7.	Computer Vision	<ul style="list-style-type: none"> <li>• Video Analytics</li> <li>• Image and Video retrieval Process</li> </ul>
8.	Software Development	<ul style="list-style-type: none"> <li>• Software Engineering</li> <li>• Software Testing</li> <li>• Optimization Techniques</li> <li>• Software Application</li> </ul>
9.	Network Security	<ul style="list-style-type: none"> <li>• Improvement of Quality of Service (QoS)</li> <li>• Analysis of cyber security issues</li> <li>• Protection method of Cyber security</li> <li>• Forensics analysis on Cyber attacks</li> </ul>
10.	Data Mining	<ul style="list-style-type: none"> <li>• Data Analytics</li> <li>• Machine Learning</li> <li>• Opinion Mining</li> <li>• Web Mining</li> </ul>
11.	Manufacturing	<ul style="list-style-type: none"> <li>• Micromachining</li> <li>• Tool Design</li> <li>• Additive Manufacturing</li> <li>• Development of Metal Matrix composites</li> <li>• Optimization Techniques</li> <li>• Industrial automation</li> <li>• Mechatronics</li> <li>• Robotics</li> </ul>
12.	Water and Environment	<ul style="list-style-type: none"> <li>• Water Resources Engineering &amp; Management</li> <li>• Environmental Engineering</li> <li>• Water Treatment</li> <li>• Remote sensing and GIS</li> </ul>
13.	Geotechnical and Transportation	<ul style="list-style-type: none"> <li>• Geotechnical Engineering</li> <li>• Transportation Engineering</li> </ul>
14.	Biomedical Instrumentation	<ul style="list-style-type: none"> <li>• Image Processing</li> <li>• Signal Processing</li> <li>• Bio-Signal/Image Processing</li> <li>• Rehabilitation Engineering</li> </ul>

➤ **Organizing Faculty Development Programs on Research Competence in Thrust areas of the departments**

Sl. No.	Name of the Event	Dates of the event	No. of participants
1.	Geoweb Services and Geoportal applications	28 <sup>th</sup> Jun. 2016 to 15 <sup>th</sup> Jul. 2016	40
2.	One Week National Workshop on Emerging Trends in VLSI & Signal Processing	22 <sup>nd</sup> - 27 <sup>th</sup> Aug. 2016	85
3.	Two Day Training Program on Mentor Graphics Tool- HEP1	31 <sup>st</sup> Jun. to 01 <sup>st</sup> Jul. 2016	14
4.	The two week national level workshop on “Applications of MATLAB in Electrical Engineering”	13 <sup>th</sup> & 25 <sup>th</sup> Jun, 2016	123
5.	Faculty Development Programme on “Hardware implementation and Troubleshooting of Power Electronic Converters”	15 <sup>th</sup> & 16 <sup>th</sup> Oct, 2016.	45
6.	Emerging Trends in Big Data	1-2 July 2016	100
7.	Open source technologies	26-27 Sep 2016	70
8.	Data analytic and machine learning with R	21-22 Oct 2016	55
9.	Machine Learning	19-24 Dec 2016	49
10.	A Two Day National Workshop on Advanced Finite Element Applications in Design	01 <sup>st</sup> – 02 <sup>nd</sup> Sep. 2016	70
11.	A Two Day Faculty Development Program on Design and Manufacturing of Composite Materials	25 <sup>th</sup> – 26 <sup>th</sup> Nov. 2016	78
12.	One Week Workshop on Thermal Energy Systems-Optimization of Design for Fluid Flows and Heat Transfer	19 <sup>th</sup> – 23 <sup>rd</sup> Dec. 2016	75
13.	Workshop on New Innovations in cloud computing for Big Data Applications	13-08-2016	120
14.	FDP on Advanced Web Technologies	23-09-2016 to 24-09-2016	60
15.	FDP on Grid and Cloud Computing	20-10-2016 to 22-10-2016	50
16.	FDP on IBM Certified Application Developer - Cloud Plat	14-11-2016 to 16-11-2016	40
17.	FDP on Cyber Security Issues and Ethical Hacking	26-12-2016 to 30-12-2016	50
18.	One week FDP on “Advanced Tools For Data Analytics”	21 <sup>st</sup> to 25 <sup>th</sup> Nov. 2016	50
19.	Three Day FDP on “Cryptography: Foundations and New Directions in Research”	16 <sup>th</sup> to 18 <sup>th</sup> Feb. 2017	80
20.	Advancements of Image and Video processing	30 <sup>th</sup> Sep & 1 <sup>st</sup> Oct 2016	45
21.	MEMS design and its Applications	24-28 October 2016	70
22.	Trends in Structural Engineering	15 <sup>th</sup> -16 <sup>th</sup> July 2016	50

➤ Conducting Research Audits

➤ Industry and academia visits to foster Interaction with experts in the domain

**3.2 Details regarding major projects**

**(Rs. in lakhs)**

	<b>Completed</b>	<b>Ongoing</b>	<b>Sanctioned</b>	<b>Submitted</b>
Number	2	6	4	35
Outlay in Rs. Lakhs	22.2	77.6	99.64	879.77

**3.3 Details regarding minor projects**

**(Rs. in lakhs)**

	<b>Completed</b>	<b>Ongoing</b>	<b>Sanctioned</b>	<b>Submitted</b>
Number	1	2	7	8
Outlay in Rs. Lakhs	0.6	9.05	18.6	41.70

**3.4 Details on research publications**

	<b>International</b>	<b>National</b>	<b>Others</b>
Peer Review Journals	165	41	--
Non-Peer Review Journals	7	3	--
e-Journals	106	3	--
Conference proceedings	98	35	--

**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.**

<b>Nature of the Project</b>	<b>Duration Year</b>	<b>Name of the funding Agency</b>	<b>Total grant sanctioned</b>	<b>Received</b>
Major projects	2016-17	DST, DST-SERB, DST-CSRI, INUP	99.64	14
Minor Projects	--	UGC, INUP	12.06	16.74
Interdisciplinary Projects	--	DST-BDIT	40.0	-
Industry sponsored	--	Hangout, Sannavative	5.0	-
Projects sponsored by the University/ College	--	-	-	-
Students research projects <i>(other than compulsory by the University)</i>	--	-	-	-
Any other(Specify)	--	-	-	-
<b>Total</b>	--	--	156.7	30.74

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  CAS  DST-FIST   
 DPE  DBT Scheme/funds

**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	DST-SERB	Under TEQIP-II	-	-	

**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	1
	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	1	2	0	0	0	0

**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

#### ➤ National Service Scheme (NSS)

National Service Scheme (NSS) unit has on its rolls 100 student volunteers who actively participate in service oriented activities.

Regular Camps such as Blood Donation Camp, World Literacy Day campaign for under privileged near Kotala Village, Workshops on the days of National Importance were organized by the NSS Unit during the academic year 2016-17. The following Regular Camps were organized by the Unit:

Regular Camps:

Event	Regular activities conducted	No. of Volunteers participated	Date
1	“Vanamahotsavam Week”, Mass Tree Plantation at Kuchivaripalli	50	05-08-2016
2	“Independence Day” at Govt. High School, A.Rangampet	50	15-08-2016
3	“World Literacy Day” campaign at Kotala Village	85	17-09-2016
4	“Cashless Transaction Campaign” at Naravaripalle	100	14-12-2016
5	“National Voters’ Day” at SVEC campus	50	25-01-2017
6	“International Womens’ Day” at SVEC campus	150	08-03-2017
7	“Blood Donation Camp” at SVEC campus.	100	19-03-2017

#### ➤ Blood Donation Camp

As part of the Annual Day Celebrations of Sree Vidyanikethan Engineering College, Blood Donation Camp was organized in the campus on 19<sup>th</sup> March, 2017.

#### ➤ Financial Literacy Programe

Financial Literacy Programe, an awareness initiative on Cashless Transaction was organized in association with APSSDC from 09<sup>th</sup> to 11<sup>th</sup> January, 2017 at the neighbouring villages viz., Naravaripalli, Kandulavaripalli, A. Rangampet and Narasingapuram.

The programme coordinator, along with ten members of faculty, five representatives from APSSDC and 60 students belonging to Information Technology, Computer Science & Engineering and Computer Science & Systems Engineering, participated in the campaign. They campaigned door-to-door and explained to the villagers, the usage of mobile phones for safe and easy cashless transactions.

Android apps of various banks were installed in the smart phones of the villagers and guidance was provided concerning their usage. Internet-based digitized transaction for merchandise was explicated to the shop owners.

➤ **Outreach Activities :**

- a. **Computer Literacy and Life Skills Programmes:** Computer Engineers Technical Association (CETA) organized outreach activity during 3<sup>rd</sup> to 10<sup>th</sup> March, 2017 in schools located in neighbouring villages. The students explained about “Computer Applications in Real Life”, “Career Development” and “Skill Enhancement and Career Growth”.
- b. **Digital Literacy program:** Under the auspices of NSS, the students of Sree Vidyanikethan Engineering College participated in Digital Literacy program at Naravaripalli on 06<sup>th</sup> October, 2016 and the villagers were enlightened about the financial literacy, internet banking, and mobile banking.
- c. **Live Webcast of Elections:** 43 students from the College participated in the Live Webcast of MLC Elections on 09<sup>th</sup> March, 2017 at various polling booths in different villages.
- d. **Off-Campus Outreach Certificate Programme :** The department of ECE conducted totally 4 Off-Campus online outreach Certificate Programmes under the aegis of Indian Institute of Remote Sensing (IIRS), Dehradun. The conducted programmes were: “Geoweb Services and Geoportals Applications” from 28<sup>th</sup> June, 2016 to 15<sup>th</sup> July, 2016 and “Basic of Remote Sensing Geographical Information and Navigation Satellite System” from 22<sup>nd</sup> August, 2016 to 18<sup>th</sup> November, 2016; another 2 programmes were conducted from 16<sup>th</sup> Feb, 2017 to 10<sup>th</sup> March, 2017 on “Remote Sensing and GIS Application in Carbon Forestry”; “Microwave Radar Remote Sensing and its Application” during 10<sup>th</sup> April to 28<sup>th</sup> April 2017. The total number of beneficiaries were 285 students.
- e. **104<sup>th</sup> Indian Science Congress:** Indian Science Congress Association (ISCA) organized 104<sup>th</sup> Indian Science Congress at SV University, Tirupati from 3<sup>rd</sup> January to 7<sup>th</sup> January, 2017. In this regard, 700 participants across the country were given boarding, lodging and transport with free of cost.

## 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		--	30.2 Acres
Class rooms	97		--	
Laboratories	139		--	
Seminar Halls	9		--	
No. of important equipments purchased ( $\geq$ 1-0 lakh) during the current year.	-	15	Self	15
Value of the equipment purchased during the year (Rs. in Lakhs)	Rs. 84.37 lakhs	Rs. 69.81 lakhs	Self	Rs. 154.18 lakhs
Others				

#### 4.2 Computerization of administration and library

The Institution is using an ERP-NIVA solution for complete automation of the academic, administrative and financial activities. Few modules are deployed and other Modules are under thorough testing for final deployment.

KOHA Software installed in Central Library for automation, which will be further integrated with ERP – NIVA.

#### 4.3 Library Services:

	Existing		Newly added		Total	
	No.	Value (Rs)	No.	Value (Rs)	No.	Value (Rs)
Text Books	95559	23754506	8196	3626767	103755	27381273
Reference Books	16335	3834489	623	275989	16958	4110478
e-Books	-	-	-	-	-	-
Journals	188	347115	191	366628	379	713743
e-Journals	2929	1150754	2929	1380807	5858	2531561
Digital Database	1	11500	1	16500	2	28000
CD & Video	2938	514150	112	19600	3050	532000
Others (specify)	KOHA (Library Software) Rs. 2,24,000.00					



#### 4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	1689	1420	185 mbps	-	120	30	119	0
Added	367	171	-	-	80	06	110	
Total	2056	1591	-	-	200	36	229	0

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

Computers	: 2056
Internet Speed	: Netlinx 185MBPS
e-Journals	: 2929
(IEEE-ASPP) & POP	
NPTEL are provided for faculty and students.	

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

i) ICT	Rs. 37.85 lakhs
ii) Campus Infrastructure and facilities	Rs. 802.59 lakhs
iii) Equipments	Rs. 430.82 lakhs
iv) Others	Rs. 4011.07 lakhs
<b>Total :</b>	Rs. 5282.33 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

- Orientation Program to I Year Students is conducted regularly to create awareness among students about existing facilities and practices of the college
- Effective Alumni Connect for students
- Mentor-Mentee System for mentoring academic performance and career oriented counselling of its students.

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

The Institution monitors the progression of students through

- Diagnostic tests are conducted every semester to facilitate teachers estimate student's knowledge on pre-requisites.
- Formative Tests are conducted for continuous monitoring of student progression
- Remedial and Reinforcement classes are conducted every semester to improve learning outcomes among slow learners.
- Day-to-day evaluation strictly followed in laboratories.
- Advanced learners are encouraged to take up new and on-demand courses beyond curriculum and also to pursue higher education

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

UG	PG	Ph. D.	Others
5577	306	6	-

(b) No. of students outside the state

--

(c) No. of international students

--

No	%
3704	62.89

Men

No	%
2185	37.10

Women

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
2695	607	180	2185	-	5667	2802	620	186	2281	-	5889

Demand ratio

Dropout % Nil

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

- NPTEL videos are available in Central Library for advanced learning.
- Provision of Financial support for coaching to students for civil services examinations.
- Student Competence Centre is under consideration to facilitate preparedness towards different competitive examinations.

No. of students beneficiaries

110

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

NET	-	SET/SLET	-	GATE	63	CAT	6
IAS/IPS etc	-	State PSC	-	UPSC	-	Others	66

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

The mentor-mentee system facilitates the counseling of all the students in academic and personal issues. Also teacher provide career guidance during counseling.

No. of students benefitted

5889

#### 5.7 Details of campus placement

Number of Organizations Visited	On campus		Off Campus
	Number of Students Participated	Number of Students Placed	Number of Students Placed
20	1109	579	30

## 5.8 Details of gender sensitization programmes

### ➤ Commemoration of Women's Day

International Womens' Day was organized by the College on 8<sup>th</sup> March, 2017. The celebrations started with much fervour and vibrant events like Food Carving, Group Discussion, Best Innovative Ideas, Quiz, Jam on Business Ideas, Painting, Singing, mobile Apps/Models were organized for women faculty, staff and students. Prizes were given to the winners.

Chief Guest, Dr.P.Vijayalakshmi, Professor of Communication & Journalism, Former Registrar, Sri Padmavathi Mahila Viswa Vidyalayam, Tirupati and Guest of Honour, Dr.V.Vanajakshamma, Professor & Cardiologist, SVIMS, Tirupati graced the occasion.

### ➤ Women's Cell for to handle sensitive issues at day-to-day work

## 5.9 Students Activities

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

State/ University level  National level  International level

No. of students participated in cultural events

State/ University level  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 (Rs.)
Financial support from institution	309	Rs.69,52,675/-
Financial support from government	3181	Rs. 16,42,83,900
Financial support from other sources (AICTE / TEQIP-II)	GATE – 09 TEQIP - 44	Rs. 13,39,200 Rs.14,06,000
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

5.13 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 Ez-School for automation. A new ERP solution ERP-NIVA is being developed and is under phase-wise deployment. Admissions, Students attendance, Students Feedback, implementation of academic calendar etc..

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

##### 6.3.1 Curriculum Development

- Revised Curriculum design and development for SVEC-16 regulations were performed for II, III & IV Year UG programs in the academic year 2016-17.
- Strictly adhering to Outcome Based Education Principles while setting question papers.
- Choice Based Credit Systems (CBCS) based regulations are under implementation.
- GAP Year concept introduced for UG programs
- MOOC courses introduced for UG and PG programs.
- Internalizing the concepts of blooms taxonomy for student development and evaluation
- Periodic feedback on curriculum from stakeholders such as experts from academia, industry, alumni, students and senior teachers.

### 6.3.2 Teaching and Learning

#### **Teaching:**

The practices established are sustained through :

- At the beginning of the academic year, an orientation Program on Pedagogy and practices is conducted for improved teaching skills among newly recruited faculty.
- Usage of modern Teaching aids and practices along with self learning material during teaching.
- Concepts beyond syllabus are introduced to students through Self-Learning to generate interest among students.
- Faculty members are trained by Industry to impart industry ready-skills to its students

#### **Learning:**

- Peer learning among students facilitated by activities of professional and technical associations.
- Project based learning being practised to enhance student skill set.

### 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

- Planning for the establishment of research centres sponsored by the institute in the thrust areas of the departments.
- New Research clusters involving students at UG and PG level.
- Research incentives and awards to members of faculty for publishing in reputed and high impact factor journals
- Conducting research meetings on weekly basis to facilitate inter-disciplinary research.
- Members of faculty mentoring students to transform innovative ideas into products.

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

#### ➤ **Modern Central library**

The new library was built in the plinth area of 4500 Sq.M. at a cost of Rs.14 crores which started functioning from 10<sup>th</sup> March, 2017. The library is centrally air-conditioned with state-of-the-art facilities. It has 3 floors equipped with the latest technology.

The library has stacked 1,17,439 volumes with 17,123 titles, 2929 online journals, and 191 print journals. The College has E-Resources access to IEEE, ASCE, and ASME. Students are also given facility to access Open Source Online Video Lectures in NPTEL. The institute is also a member of DELNET. The college has membership with National Digital Library (NDL); Computer Society of India (CSI); Institution of Electronics and Telecommunication Engineers (IETE), Institution of Engineers (IE); Indian Society for Technical Education (ISTE); Instrument Society of India (ISOI); American Council Library and British Council Library.

The library is using Integrated Open Source Software – KOHA for check-in and check-out transactions. Digital Library is installed with 60 systems. Wi-Fi is enabled in the library enabling 500 faculty and students to access Wi-Fi at a single stretch.

Paintings by world renowned artists on the walls of the library added beauty to the library providing exquisite environment to the visitors.

#### ➤ **Smart class rooms**

#### ➤ **Procurement of modern equipment for research.**

### 6.3.6 Human Resource Management

- a) The faculty and staff requirements are assessed based on the workload as per the AICTE norms.
- b) 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.
- c) A self-devised faculty-Self appraisal system is followed to mentor and monitor faculty competence.

### 6.3.7 Faculty and Staff recruitment

- During recruitment process majority of the applicants are considered by giving due priority to reputed institutions.
- Recruiting research competent faculty during recruitment.
- Involvement of External experts during personal interviews in recruitment process to ensure transparency.

### 6.3.8 Industry Interaction / Collaboration

#### ➤ MoUs signed

- IBM, Bangalore
- INFOSYS, Bangalore
- WIPRO Technologies, Bangalore.
- The State Of Andhra Pradesh For Implementation of TEQIP – II Project
- TATA Consultancy Services, Mumbai
- COMP-INDIA Infotech Pvt.Ltd
- RAMP Information Technology Inc, Secunderabad
- CIVIL-AID Technoclinic Private Limited, Bangalore.
- MY HOME Constructions (P) Limited,
- SATYAVANI Projects and Consultants Private Limited,
- Quality Enhancement in Engineering Education (QEEE)
- CII - Confederation of Indian Industry.
- DEXTEROUS Technologies, Dynamics, Controls & Automation Engineering,
- Knowledge Incubation for Technical Education Centre, Indian Institute of Technology, Hyderabad
- Ravands Controls, an ISO 9001:2000 Certified Company, Chandragiri, 517101, Tirupathi, Andhra Pradesh, India
- Indian School of Business, Hyderabad & Andhra Pradesh Society for Knowledge Networks for Technology Entrepreneurship Program
- Indian Institute Of Technology Bombay
- Indian Telecom Innovation Hub- Tbi(Itih-Tbi)
- NASSCOM & APSSDC
- High Cloud Solutions, Inc. USA.
- Efftronics Systems Pvt. Ltd. Vijayawada
- Binate Technologies Private Limited
- Amphenol Advanced Sensors
- Sarathy Geotech & Engineering Services Pvt. Ltd. Bangalore
- EDCIL (India) Limited.
- Cloudbyte India Technologies Pvt.Ltd, Bangalore



➤ **Expert Lectures**

Sl.No.	Name of the Expert and Affiliation	Lecture Topic	Date(s)
1.	Mr. A. V. Sri Kumar Assistant General Manager, BSNL-STR, Tirupati-517501	Ameliorations in Internet of Things (IOT)	28-10-2016
2.	Mr. G. Manivannan, Director & Technical Expert, M/s SPEKTRON Instruments inc., Chennai	Thin Film Deposition by Sol-gel Spin Coating Method	03-03-2017
3.	Mr. Nagasudhan. D.S.B Design Engineer, raana-power-solutions, Salem, Tamilanadu. Mr. E. Rajasekhar, Design Engineer, Raana-power-solutions, Salem, Tamilanadu.	Skill Development programme on “Power Electronics & Its Applications in Electrical Engineering”	15 <sup>th</sup> & 16 <sup>th</sup> Oct, 2016
4.	Mr.Damodara Nambeti, ADE, APSPDCL, Tirupati.	One Day Expert Lecture on “Basics of Smart Grid Technology & Its Elements”	03-09-2016
5.	Mr. Dasari Ramakrishna, Managing Director Mr. Bhavani Shankar, Executive Manager of M/s. Efftronics Systems Pvt. Ltd, Vijayawada.	“Emerging Trends in Engineering and Technology”	03-03-2017
6.	Mr. P. Venkata Kalyan, Product Manager, Dr. Reddy’s Laboratories, Hyderabad	“Startup ideas, Product development proposal and Business plans”	18-02-2017
7.	M. K. Chaitanya Technical Officer E-Security Team, CDAC Hyderabad	“Security Issues in Mobile Applications”	17-09-2016
8.	Mr. Krishnasastry Pendyala Executive Director PWC, Hyderabad.	“Challenges in Cyber Security & Fraud Management”	08-11-2016
9.	Dr. T Ram Prabhu, Scientist – C (Assistant Director) in CEMILAC Laboratory, DRDO, Bangalore.	Advanced Materials and Manufacturing Processes for Automobile and Aerospace Applications	15-10-2016
10.	A. Kiran Kumar Kumar Reddy Regional Business Manager, Girnarssoft Pvt ltd (CarDekho.com) Hyderabad.	Start-Up’s for Bright Nations	22-10-2016
11.	Dr. G. Saravanan, Operations Group Manager – Lower Power train Operations, Caterpillar India Pvt Ltd., Thiruvallur	6 Sigma- Its significance and applications in a production system	25-10-2016
12.	Mr. Prathap Velavaluri sekhar, Test Architech, Senior Software Engineer, CSE,USA Division	Mobile Applications and Development Environments	18-01-2017

Sl.No.	Name of the Expert and Affiliation	Lecture Topic	Date(s)
13.	Mr.Satish Varagani, Lead Data Engineer, Walmart Labs, Bangalore	Binary Decision Diagrams an Introduction and its Applications	20-08- 2016
14.	Mr. Murthy Indra Kanti, CEO, Leave consulting Services, Bangalore	Trends and opportunity in Big Data	03-01-2017
15.	Mr. Pendyala Krishna Sastry, TCS, Hyderabad	Cyber Security and Fraud Management	08-11-2016
16.	Mr.Vishnu Neerukatu, Manager Technology and Solution, Architect, Sales Force, London, U.K	Cloud Computing	29-10-2016
17.	Mr.Sandeep Badvel, Application Developer, Oracle Financial services, Bangalore	Oracle Certification	01-11-2016
18.	Mr.K.R.S.R. Krishna Vice President Petrofac Internationals Chennai.	Smart Instrumentation	01-12-2016
19.	Mr. K Dheeraj, Engineer, Maccaferri Environmental Solutions Pvt. Ltd., New Delhi	Geosynthetics in Ground Improvements	03-11-2016
20.	Dr. B. Vidyaranya, Engineering Manager, Larsen and Toubro, Mumbai	Techniques of Effective Supervision in Geotechnical Engineering	03-03-2017
21.	Dr. S. Umamaheswar Reddy, Vice President, Aarvee Associates Architects Engineers & Consultants Pvt. Ltd., Hyderabad	Challenges in Hydropower Project Development in Himalayan Range and Way Forward”.	26 -10-2016
22.	Dr. C. R. Parthasarathy, Group Managing Director, Sarathy Geotech & Engineering Services Pvt. Ltd., Bangalore	Dynamic Testing of Piles- Methodology and Case Study	26 -10-2016
23.	Mr. Sathiyarayanan Mahadevan, Chief Executive Officer, Starworth Infrastructure & Construction Ltd.	Latest Construction Trends	26 -10-2016
24.	Mr. B. Hari Prasad Rao, Zonal Head – Technical Services (Andhra Pradesh, Telangana, Tamil Nadu, Pondicherry, Orissa & East), JSW Cement, Hyderabad	Usage of Portland Slag Cement for Concrete Durability	26 -10-2016
25.	Mr. V. S. Rajasekhar, Engineering Director, Kirby Building Systems India Pvt. Ltd., Hyderabad	Evolution and Trends in Pre- Engineered Steel Buildings	26 -10-2016

Sl.No.	Name of the Expert and Affiliation	Lecture Topic	Date(s)
26.	Mr. M. G. Ganapati, Vice President – Precast, BCV Developers Pvt. Ltd., Brigade Group, Bangalore	Precast Construction and Global Scenario of Precast Construction	27 -10-2016
27.	Mrs. Minimol Korulla, Vice President - TMD, Maccaferri Environmental Solutions Pvt. Ltd., Gurgaon	Analysis, Design and Construction of Landslide Mitigation and Rockfall Protection Systems	27 -10-2016

### ➤ Consultancy Activities

Company Name	Title of Service
Hang Outs Restaurant	Web Application Design
Consolidated Construction Consortium	Testing of Bricks (Water absorption, Compressive strength )
	Cube Testing
	Cube Testing
	Test on River sand ( Sieve analysis , Silt & clay content )
	Test on Coarse aggregate (Particle size distribution , Crushing strength of C A
	Cube Testing ( 7 days dated 14.11.2016)
	Cube Testing ( 7 days dated 14.11.2016)
JNTUA College Of Engineering Anantapur	Testing of treated sewage two samples ( pH, TDS, Total suspended Solids, COD, Bio Chemical Oxygen de
Ravands Controls inc.	Testing of Materials - 3 Samples

### ➤ Students internships

S.No	Company Name	No of Students
1	ADI Technologies, Bangalore	1
2	Aerotrix, Bangalore	1
3	Amara Raja Batteries,Tirupathi	8
4	Andhra Pradesh Power Development Company Limited	9
5	Andhra Pradesh Power Generation Corporation Limited	8
6	APGENCO, Dr. Naralatatarao Thermal Power Station, Ibrahimpatnam	9
7	APGENCO,Nellore	8
8	APGENCO,Vijayawada	11
9	APSPDCL, SPM Section, Renigunta	5
10	APTRANSCO, Ananthapuramu	5
11	Bharathi Cement Corporation Pvt Ltd., Kadapa.	22
12	BHEL, Bangalore	5
13	BHEL, R&D, Bala Nagar, Hyderabad	10
14	BHEL, Vizag,Ap	4
15	BOSCH, Konappana Agrahara, Karnataka	31
16	BOSCH-CIL-SEZ, Keerthanam Village, Coimbatore	2
17	BSNL, Anantapur	1

S.No	Company Name	No of Students
18	BSNL, Hyderabad.	6
19	Carriage Repair Shop, Renigunta	1
20	CGI	12
21	CRS Railways, Renigunta	4
22	DR. Enterprise Automotive Pvt Ltd., Uthukottai , Tiruvallur Dist, TN	6
23	EICHER Hitech Motors,Tirupati,Ap	1
24	Electric Loco Shed, Arakkonam	15
25	EPR Constructions, Kurnool	1
26	Ezenith -Bangalore	1
27	Grindwell, Tirupathi	4
28	Heritage Foods (India) Limited, Chittoor (Dist.)	20
29	Heritage Wine Industry,Banglore	16
30	Hindustan Coca Cola Beverage Pvt Ltd.,	32
31	Hitech Motors, Tirupati	6
32	IISC, Bangalore	5
33	L&T Constructions Chennai	1
34	Larsen & Toubro Constructions	1
35	Mahindra Motors, Ananthapur,Ap	1
36	Meenakshi Energy Power Plant, Tirupati, AP	1
37	My Home Constructions (P) Limited, Hyderabad	8
38	Nagarjuna Steel Works Pvt. Ltd.	1
39	NCC-Mayatas_ZVS (JV) Construction Company Ltd. Hyderabad	6
40	NELCAST, Chennai	4
41	NPTI-PSTI, Bangalore	32
42	NTTPS, Vijyawada, AP	4
43	Priya Cement, Kurnool	1
44	Promarg Consultants Private Limited Hyderabad	15
45	PSR Builders And Developers, Bengaluru	6
46	Royalaseema Thermal Power Plant, Kadapa	16
47	SC Railway, 132/27 Kv Traction Sub-Station, Renigunta	10
48	SDSC-ISRO, Sriharikota, Nellore.	3
49	Srikalahasthi Pipes Limited , Srikalahasthi, AP	28
50	Starworth Infrastructure & Construction Ltd., Bengaluru	9
51	STUP Consultants, Bengaluru	5
52	Sujal Pipes, Nandyala	4
53	TGP & GNSS Circle, Tirupathi	3
54	Tirumala Tirupati Devasthanams (TTD) Tirumala	10
55	TTD Transport Department, Tirupati	6
56	TVS Brakes India Limited	1
57	Vision India Dairy Products, Madanapalli	5
58	Vizag Seaport, Visakhapatnam, AP	7
59	VTPS, Vijayawada	12

➤ **Companies visited for placement**

1. WIPRO Technologies, Hyderabad
2. ADP Pvt. Ltd., Hyderabad
3. Mphasis Limited (an HP Company), Bangalore
4. GGK Technologies, Hyderabad
5. Hyundai Motor India Engineering Centre, Hyderabad
6. Polaris Consulting and Services Ltd., Chennai
7. GlobalEdge Software Ltd., Bangalore
8. Fony Technologies Pvt. Ltd., Coimbatore
9. Maveric Systems Ltd., Chennai
10. Tech Mahindra, Bangalore
11. Saint-Gobain, Chennai
12. Prolifics Corporation Ltd., Hyderabad
13. STUP Consultants Pvt. Ltd., Bangalore
14. Sonata Software Ltd, Bangalore
15. GENPACT, Hyderabad
16. ComTec Information Systems, Hyderabad
17. Infor, Hyderabad
18. Pratian Technologies, Bangalore
19. Maccaferri Environmental Solutions, New Delhi
20. VSES India Pvt. Ltd., Hyderabad

➤ **Skill development programs through APSSDC**

Andhra Pradesh State Skill Development Corporation (APSSDC) has organized a one day workshop on Skills Up-gradation and Employability facilitation at Sree Vidyanikethan Engineering College on 19<sup>th</sup> July 2016 to promote Technical Skill Awareness among the neighboring Engineering Colleges. Dr. K. Lakshmi Narayana, Founder Director, APSSDC, and Dr.Ghanta Subba Rao, MD and CEO, provided invaluable insights to the Principals and Management Officials of Engineering Colleges.

**6.3.9 Admission of Students**

All admissions into all courses of study in category – A and B, 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 ✓ 50% of fee waives in campus for employee of SVEC.
<b>Non teaching</b>	
<b>Students</b>	✓ Student Welfare Fund for fee waivers and concession. ✓ One way travel allowance for attending conferences & workshops. ✓ Conduct of student initiated techno-cultural events at institute level

6.5 Total corpus fund generated

Rs. 254.85 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	SVEC
Administrative			Yes	SVEC

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:

- Alumni interactions with students
- Alumni as part of Board of Studies

Department/ Discipline	Alumni Member
Electrical and Electronics Engineering (EEE)	Mr. Sreevatsav RSSD Alstom Transport Pvt. Ltd., Bangalore
Electronics and Communication Engineering (ECE)	Mr. K. Sagar Design Engineer-II , Advanced Micro Devices India Pvt. Ltd. Hyderabad
Electronics and Instrumentation Engineering (EIE)	Mr. A. Jaswanth Co-Founder, SiliConch Systems, Bangalore.
Computer Science and Engineering (CSE)	Mr.A.Jayaprakash Principal Software Engineer, Oracle India Pvt.Ltd., Hyderabad
Computer Science and Systems Engineering (CSSE)	Mr.A.Pavan Kumar Senior Staff Manager, Qualcomm, Bengaluru
Information Technology (IT)	Mr. P. S. V. Ravi Kumar Team Leader, Web Publish Stirred Creative Advertising Pvt. Ltd., Bangalore
Master of Computer Applications (MCA)	Mr. Krishna Pradeep Project Manager, ADP India Pvt. Ltd., Hyderabad
Civil Engineering (CIV)	Mr. A. Lakshmi Narayana Engineer, Maccaferri Environmental Solutions Pvt. Ltd, Chennai
Mechanical Engineering (ME)	Mr. M.V.Tulasiram Sharma, Asst. System Engineer, TCS Garima Park, Gujarat

## 6.12 Activities and support from the Parent – Teacher Association

- Parents' Meet was conducted on 17<sup>th</sup> October, 2016 and 26<sup>th</sup> March, 2017. More than 400 parents attended the programme and interacted with the respective Student Counselors and HODs.
- Feedback on facilities
- Feedback on student progression

## 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

- 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
- Installation of Solar Panels to explore new renewable energy sources

## 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.

- Initiative towards establishment of new research labs/ centres in the thrust areas of the institution
- Monitoring Research activities at institute level through research advisors
- Parent Orientation Meet by Senior Management enlightening best practices of the institution

**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. Title of the Practice: Curriculum update**

##### **Objectives of the Practice:**

- To provide a contemporary curriculum to the new generation students
- To incorporate cross domain content and issues for better exposure and breath of the relevant program
- To seek feedback from all the prime stakeholders to gain a 360<sup>0</sup> view on development of curriculum

##### **The Context:**

The education objectives that are stated to address the aspirations of the students and requirements of the industry are incongruent. The demands from the various sectors of the industry necessitate the institution to place a contemporary curriculum with judicious mix of attitude, skills and knowledge as part of the learning outcomes of the students. Since the conferment of autonomy the institution in exercising its academic flexibility and has been in constant pursuit of providing curriculum as a quality product, process and practice.

##### **The Practice:**

- Seeking insights from American professional societies and premiere institutions for identifying the broad knowledge areas in each program
- Invoking feedback from peer academia, industry experts, alumni, teachers and students on curriculum objectives, content and outcomes
- Boards of Studies and Academic Council of the institution to induct experts from academia and industry for curriculum design, development and update.



**Evidence of Success:**

- Incorporation of industry oriented courses in all programs
- enhanced learning outcomes of the students
- better progression to higher education and career

**Problems Encountered and Resources Required****Resources Required**

- Interaction with experts from IIT's and other premiere national institutions
- Quality teachers who can research on novel curricular requirements
- Advanced infrastructure, equipment and software to implement the curriculum

**Notes:** curriculum as a significant program specific criterion has to be internalized by all the stakeholders for attaining the set program objectives

**2. Title of the Practice: Objective Outcome Based Education Practice****Objectives of the Practice:**

- To focus on the graduate attributes or outcomes after completing an academic program.
- To train Graduates to be more “relevant” to industry or entrepreneurship or research and lifelong learning
- To ensure Continuous Quality Improvement (CQI) is in place in the core academic process of the institution

**The Context:**

The traditional method focusing on ‘covering the content’ giving much less thought to the ‘learning by the student’ has been generating graduates with lower employability. The content-driven approach to teaching has been referred to as a teacher-centered approach where Instructional objectives and learning outcomes are not comprehensively planned and informed to students. Stress on Lower Order Thinking Skills and Student assessment is not aligned to program outcomes. Hence an approach to focus and train students based on achieving program outcomes has become essential for quality engineering education.

**The Practice:**

- Stating clear vision and mission of each program in line with the vision and mission of the institution

- Articulation of program educational objectives, program outcomes and program specific outcomes
- Development of curriculum with broad knowledge areas specified by national and international premiere academic and professional bodies
- Establishing rubrics for measuring the learning outcomes of the students in all the curriculum components of the program with emphasis on attaining bloom's levels
- 360<sup>0</sup> feedback sought for curricular improvements and update periodically

**Evidence of Success:**

- Outcome based education system facilitating easy and early assessment of learning outcomes of the students

**Problems Encountered and Resources Required**

- Transition of members of faculty to new method has been challenging
- Complete practice of Outcome based education is relative and institution specific which sometimes become a difficult task to present and defend an external statutory body
- Complete understanding of the Bloom's levels of skills and the concepts of personalization of education based on the student diversity is an essential resource to be gained by educators

**Notes:**

As a structured approach, outcome based education is practiced by the institution to achieve the educational objectives of the program- student progression to higher education or gainful campus placement or endeavors in entrepreneurship

**7.4 Contribution to environmental awareness / protection**

**Army green activities :** Noble purpose of extending health care, sanitation and education to rural areas.

**NSS activities on tree plantations**

Event	Regular activities conducted	No. of Volunteers participated	Date
1	"Vanamahotsavam Week", Mass Tree Plantation at Kuchivaripalli	50	05-08-2016

7.5 Whether environmental audit was conducted? Yes  No

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

➤ **UGC – Extension of Autonomous Status**

The College was conferred Autonomy by UGC, New Delhi w.e.f. 2010-11 (for 6 years). For further extension of Autonomous Status, the UGC Expert Committee visited the College to evaluate the performance and academic attainments on 29th & 30th August, 2016. Subsequently Extension of Autonomous status was granted for 6 years from the academic year 2016-17 to 2021-22 by UGC, New Delhi.

Also, the affiliating university, JNTUA, Ananthapuramu, granted Autonomous status for a period of 6 years from the academic year 2016-17 to 2021-22.

➤ **Pradhan Mantri Kaushal Vikas Yojana**

Pradhan Mantri Kaushal Vikas Yojana for Technical Institutions (PMKVY-TI) through AICTE is being implemented with a vision to create skilled manpower to drive the flagship of Government like-Make in India, Digital India and Unnat Bharat.

In this connection, Sree Vidyanikethan Engineering College has been selected as one of the Institutes of AICTE with a sanctioned amount of Rs.6.19 lakh to offer Engineering skills training in Assistant Electrician and Casting Technician Level-3 Specializations under PMKVY-TI, free of cost for unemployed youth.

Under first phase, 44 unemployed youth from neighboring villages were shortlisted to offer training. Among 44 students, 21 students were selected for Assistant Electrician specialization and 23 for Casting Technician Level-3 specialization trained by Department of EEE and ME respectively.

➤ **Gold Medals and Endowment Medals. (2016 Passed out Batch)**

Sl. No.	Donors	Branch	Gold Medal Winner	Roll No.	Percentage
<b>B.Tech</b>					
1.	Sri Manchu Narayana Swamy Naidu Memorial Gold Medal	CE	Ms. Kothakota Sai Bhanu	12121A0146	85.56
2.	Sri Rajinikanth, Movie Artiste	EEE	Mr. Gunapati Chandrasekhar Reddy	12121A0247	89.85
3.	Smt. Yarlagadda Rajani Gold Medal	ME	Ms. Y Reddy Sushmitha	12121A03B7	88.76
4.	Sri K. Chiranjeevi, Movie Artiste	ECE	Ms. B Geetheeka Sherronn	12121A0405	92.55
5.	Sri Tatineni Rama Rao, Movie Director	CSE	Ms. Pulicherla Vidruma	12121A0590	87.33
6.	Sri T. Subbarami Reddy, Movie Producer	EIE	Mr. Gummadipalli Rajendraprasad Jagadeesh Babu	12121A1040	89.24
7.	Sri Akkineni Nagarjuna, Movie Artiste	IT	Ms. Bandi Sai Priyadarshini	12121A1210	91.07
8.	Sri Chalasani Ramesh, Film Producer	EConE	Ms. Kudimi Saiprathyusha	12121A1322	91.35
9.	Sri M. Srikanth, Movie Artiste	CSSE	Mr. Pudi Gowri Sankar	12121A1592	87.38

Sl. No.	Donors	Branch	Gold Medal Winner	Roll No.	Percentage
<b>M. Tech</b>					
10.	Sri M.V. Chowdary Gold Medal	CS	Ms. K Ghanya	14121D0508	87.35
11.	Smt. M. Hemalaya Kumari Gold Medal	EPS	Ms. Chinthalapalli Siva Kumari	14121D0707	85.82
12.	Sri Chalasani Dharmarajulu Memorial Gold Medal	SE	Ms. Pemma Siva Sowmya	14121D2507	82.53
13.	Sri L.V. Prasad Memorial Gold Medal	DECS	Mr. Gudipati Pavan Kumar	14121D3808	84.88
14.	Sri Krishna Giri Gold Medal	VLSI	Ms. Chandragiri Bhavya	14121D5706	89.00
15.	Smt. Nandamuri Basava Tarakam Memorial Gold Medal	CMS	Ms. Matampalli J Deepika	14121D6109	89.71
16.	Smt. Koneru Sunitha Gold Medal	CNIS	Ms. M S P S Vani Nidhi	14121D6307	83.47
<b>MCA</b>					
17.	Smt. Nellore Lakshmidamma Memorial Gold Medal	MCA	Ms. Gadepalli Saiyasaawini	13121F0016	88.09

#### ➤ Prathibha Awards

The initiative of the state government of Andhra Pradesh to recognize and reward the meritorious students in the form of Prathibha awards has been an opportunity for the students of the College to prove themselves. 20 Prathibha awards were bestowed to students for their outstanding academic achievement on 15th Oct. 2016. Awards included a cash prize, a certificate and a memento.

Programme	No. of Awards Received
B. Tech	18
M. Tech	02
<b>Total</b>	<b>20</b>

#### ➤ Graduation Day

The 5th Graduation Day of Sree Vidyanikethan Engineering College (Autonomous) was celebrated on 09th July 2016. Degrees were awarded to 958 B.Tech and 54 MCA graduates.

The Chief Guest, His Excellency, Sri Ch. Vidyasagar Rao, Hon'ble Governor of Maharashtra, presented the Provisional Pass Certificates to 2016 passed out B.Tech and MCA graduates and addressed the students.

Dr. M. Mohan Babu, Hon'ble Chairman, Sree Vidyanikethan Educational Trust presided over the Graduation Day; Prof. Avula Damodaram, Hon'ble Vice-Chancellor, S.V.University, Tirupati, and Sri Vishnu Manchu, CEO, SVET were the Guests of Honour. Prof. B. Eswara Reddy, JNTUA Representative also graced the occasion.

The Special Officer, SVET; Principal & Director, SVEC; Controller of Examinations; Deans, Heads of Departments and Principals of Sree Vidyanikethan Educational Institutions were also present.

➤ **Techno-Cultural Fest**

Mohana Mantra, a National Level Techno-Cultural Fest, brain child of Sri Vishnu Manchu, CEO, SVET was organized during 06th to 08th Oct. 2016. The three day Technical, Cultural, Management and Literary events served as a platform for burgeoning knowledge pool of ideas to bring out the best in young students.

A Plethora of different events were designed for budding engineers from all over India and about 25,000 students participated in this mega event.

➤ **Distinguished Lectures**

**Noble Laureate, Dr. William Esco Moerner:** Noble Laureate, Dr. William Esco Moerner, the Harry S. Mosher Professor of Chemistry and Professor by courtesy of Applied Physics, delivered a illustrious lecture on “*Super Resolution Imaging of Single Molecules*” on 4<sup>th</sup> January, 2017. Dr. William Esco Moerner, elucidated single-molecule spectroscopy and super-resolution microscopy to the members of faculty. Dr. Moerner explained various applications of super resolution imaging technique in chemistry, physics and medical sciences and also talked about the role of computer science engineering and information technology for the success of super resolution microscopy.

**Dr.Badilescue Simona:** Dr.Badilescue Simona, a senior scientist and an expert in Physical Chemistry from Concordia University, Canada delivered an expert talk on “*Molecular Spectroscopy and Quantum Chemistry*” on 17<sup>th</sup> December, 2016. She enlightened the faculty on Gold (Silver)-Polymer Nanocomposites for Biosensing and Microfluidic Applications and elaborated on Nanometal-polymer composite films and nanoparticles such as gold (Au) and silver (Ag). She also explained about nanocomposites of metals integrated into other polymers for synthesization as well by using UV, Microwave and Thermal reduction methods.

**Dr. A Sivathanu Pillai:** Dr. A Sivathanu Pillai, an Indian scientist, currently serving as Honorary Distinguished Professor at ISRO, a Honorary Professor at IIT Delhi and a Visiting Professor at Indian Institute of Science explained the evolution of Indian Space Research and Development. He delivered an expert lecture on “*Innovation, Technology and Youth*” on 06<sup>th</sup> February, 2017. He eloquently explained the young students, techniques and technologies adopted by DRDO in developing various machinery and warfare. He emphasized on the paradigm shift from import to indigenization. Dr. Pillai encouraged the students to be researchers by providing information on initiatives taken by ISRO and the various funding agencies sponsoring research.

**Dr. V. Ramgopal Rao:** Dr. V. Ramgopal Rao, Director, IIT Delhi delivered an expert lecture on “*Internet of Things (IoT) - Drivers of Future Innovation*” on 03<sup>rd</sup> January 2017. Dr. Rao explained the paradigm shift from analytical electronic devices to intelligent electronic devices with the advent of IoT. The various applications of IoT specifically Electronic Nose and Electronic Tongue were dealt in detail in the expert talk.

## ➤ Silver Jubilee Celebrations

The 25<sup>th</sup> Annual Day celebrations of Sree Vidyanikethan Educational Institutions were celebrated on 18<sup>th</sup> & 19<sup>th</sup> March 2017 with a galore of cultural activities, motivating speeches, awards distribution, felicitations and remarkable inceptions.

On 18<sup>th</sup> March, 2017, a number of guests, including Chief Guest Padma Bhushan Dr. A. Sivathanu Pillai, the father of 'BRAHMOS'; Special Guests - Smt. Suhasini Maniratnam, film artiste; Padma Shri Dr. Brahmanandam, Smt. Nannapaneni Rajakumari, MLC and spokesperson for Telugu Desam Party; Smt. Sugunamma, MLA, Tirupati; Sri. N. Siva Prasad, MP, Chittoor; Dr. Sanjay Desai, eminent Orthopaedic Surgeon; Sri. T. Subbarami Reddy, industrialist, politician and philanthropist; Padma Bhushan Dr. K. I. Varaprasad Reddy, Founder & Chairman, Shantha Biotechnics Ltd., Hyderabad; Sri Raghurama Krishnam Raju, MD of Ind-Bharath Energy (Utkal) Ltd; Sri. Aswini Dutt, film producer; Sri. Hari Babu and other artists across the country, and members of Sneham group graced the occasion.

On 19<sup>th</sup> March, 2017, the Chief Guest, Dr. Sushilkumar Shinde, Member of Parliament, and Former Governor of Andhra Pradesh and a gamut of Special guests, Dr. Chevi Reddy Bhaskara Reddy, MLA, Chandragiri; Sri Peddi Reddy Ramachandra Reddy, MLA, Punganur; Brahmashri Mukkamula Sridhar Swamy Guruji; Research Adviser, Dr. T. Lazar Mathew; Sri Vijay Bandla, New Jersey; Sri Mohammed Ali Shabbir, MLC, Telangana; Sri Jagarlamudi Radha Krishna, Movie Director & Producer; Sri V.V. Vinayak, Movie Director; Sri Tanikella Bharani, Movie Artiste, Director and Writer; Sri Posani Krishna Murali, Movie Artiste and Writer; Padmabhushan Maestro Ilayaraja, Music Director and Sri. John Sudheer from New Jersey and well-wishers from all the corners of the country and also from countries like Germany, Australia and China made their valuable presence.

The meritorious students were awarded gold medal and certificates. Dr. B. Palakshi Reddy, Assistant Professor of Chemistry; Department of BS&H was awarded the 'Best Research Paper' award. Sri Manchu Narayanaswamy Naidu Best Teacher Award was given to Sri Bongurala Manohar, Govt. Teacher.

The cultural programs performed by students included dances, skits, medley, and shadow mime. The gracious and elegant movements of 'Thai' dancers filled the place with tranquility.

Sri. Vishnu Manchu, Chief Executive Officer, Sree Vidyanikethan Educational Trust, Sri Manoj Manchu, Film Artiste and Ms. Lakshmi Manchu, Popular film artiste and film producer added splendor and cheerfulness to the mega evening function.

Honorable Chairman, Dr. M. Mohan Babu, thanked all the well-wishers who had come from far and wide to be a part of Silver Jubilee and Annual Day gala.

## 8. Plans of institution for next year

Institution was accredited by NAAC with A Grade for Five Years from 23 March, 2013 upto 22 March, 2018. In this regard institution is planning for reaccreditation in Cycle 2 under Two Window System.

Institutional Participation in NIRF ranking.

Provide more placement opportunities for its students

Creating amiable environment for start-ups in the institution.

Encourage students for internships, which fosters employability.

**Dr.B.NARENDRA KUMAR RAO**

*Coordinator, IQAC*

Sree Vidyanikethan Engineering College  
(Autonomous)  
Sree Sainath Nagar, A.Rangampet



*Signature of the Coordinator, IQAC*

**Dr. P.C. KRISHNAMACHARY**

*Principal & Chairman, IQAC*

Sree Vidyanikethan Engineering College  
(Autonomous)  
Sree Sainath Nagar, A.Rangampet



*Signature of the Chairperson, IQAC*

**Dr. P.C. KRISHNAMACHARY**  
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