

ANNUAL QUALITY ASSURANCE REPORT (AQAR) 2014 - 2015

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

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. MHC0GN 18879) APC0GN 15094

1.4 Website address:

www.vidyanikethan.edu

Web-link of the AQAR:

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 st Cycle	A	3.11	2013	5 Years
2	2 nd Cycle				
3	3 rd Cycle				
4	4 th Cycle				

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

02-07-2013

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

2014-15

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 _____ (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

(ii) Themes

2.14 Significant Activities and contributions made by IQAC

1. Contributing and monitoring to reach quality benchmarks set for the Institution.
2. Periodic monitoring of feedback from stakeholders for continuous improvement.
3. Regular audit mechanism for sustained quality

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"> 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. 	<p>YES, Attained</p>

2.15 Whether the AQAR was placed in statutory body Yes No

Management Syndicate Any other body

Provide the details of the action taken

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	-	-	-	-
Total	20	-	20	-
Interdisciplinary				
Innovative				

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

Core / Elective / Open Courses

(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	20
Trimester	-
Annual	8

1.3 Feedback from stakeholders* Alumni Parents Employers Students
(On all aspects)

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 open electives, mandatory courses and also preparing the curriculum in line with American Professional Societies.

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

CRITERION – II

2. TEACHING, LEARNING AND EVALUATION

2.1 Total No. of permanent faculty	Total	Asst. Professors	Associate Professors	Professors	Others
	419	317	24	32	46

2.2 No. of permanent faculty with Ph.D.

62

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
70	-	-	-	-	-	-	-	70	-

2.4 No. of Guest and Visiting faculty and Temporary faculty

2.5 Faculty participation in conferences and symposia (2014-15):

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	12	269	--
Presented papers	26	32	--
Resource Persons	--	13	--

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
- ❖ Program Outcomes, Course Outcomes designed are utilized for effective teacher-learning.
- ❖ Self-learning is given a scope.
- ❖ 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

190

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:

(2015 passed out batch)

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
B.Tech - CE	133	64	43	17	-	93.23
B.Tech - EEE	142	91	33	9	-	93.66
B.Tech - ME	66	35	17	9	-	92.42
B.Tech - ECE	140	94	28	5	-	90.71
B.Tech - CSE	137	83	44	8	-	98.54
B.Tech - EIE	135	61	56	5	-	90.37
B.Tech - IT	128	60	42	15	-	91.41
B.Tech - E.Con.E	59	26	24	6	-	94.92
B.Tech - CSSE	59	26	22	4	-	88.14
B.Tech - BOT	11	7	2	1	-	90.91
M.Tech - BOT	6	3	3	-	-	100
M.Tech - CS	24	19	5	-	-	100
M.Tech - EPS	22	12	10	-	-	100
M.Tech - SE	9	7	2	-	--	100
M.Tech - DECS	16	15	1		-	100
M.Tech - VLSI	20	20	-	-	-	100
M.Tech - CMS	23	17	6	-	-	100
M.Tech - CNIS	14	12	2	-	-	100
MCA	95	46	46	3	-	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	34
UGC – Faculty Improvement Programme	--
HRD programmes	17
Orientation programmes	62
Faculty exchange programme	--
Staff training conducted by the university	--
Staff training conducted by other institutions	120
Summer / Winter schools, Workshops, etc.	281
Others	53

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

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	27	--	7	--
Technical Staff	72	--	11	--

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 :

- Research guidance through Research Mentoring Committee
- Formation of Research Clusters
- Conducting Research Audit
- Interaction with experts in industry/academia
- Organizing Faculty Development Programs on Research Competence.

3.2 Details regarding major projects

(Rs. in lakhs)

	Completed	Ongoing	Sanctioned	Submitted
Number	--	4	2	14
Outlay in Rs. Lakhs	--	61.9	20.55	--

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	-	-	2	11
Outlay in Rs. Lakhs	-	-	9.05	-

3.4 Details on research publications

	International	National	Others
Peer Review Journals	268	28	--
Non-Peer Review Journals	--	--	--
e-Journals	268	28	--
Conference proceedings	26	36	--

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	2014-15	UGC, ISRO Respond	20.55 lakhs	9 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)	--	-	-	-
Total	--	--	20.55 lakhs	9 lakhs

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	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	4
	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	<input type="text" value="50"/>	State level	<input type="text" value="--"/>
National level	<input type="text" value="--"/>	International level	<input type="text" value="--"/>

3.22 No. of students participated in NCC events:

University level	<input type="text" value="--"/>	State level	<input type="text" value="--"/>
National level	<input type="text" value="--"/>	International level	<input type="text" value="--"/>

3.23 No. of Awards won in NSS:

University level	<input type="text" value="--"/>	State level	<input type="text" value="--"/>
National level	<input type="text" value="--"/>	International level	<input type="text" value="--"/>

3.24 No. of Awards won in NCC:

University level	<input type="text" value="--"/>	State level	<input type="text" value="--"/>
National level	<input type="text" value="--"/>	International level	<input type="text" value="--"/>

3.25 No. of Extension activities organized

University forum	<input type="text" value="--"/>	College forum	<input type="text" value="1"/>		
NCC	<input type="text" value="--"/>	NSS	<input type="text" value="1"/>	Any other	<input type="text" value="--"/>

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

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

NSS Unit conducted a Special Camp in Kuchivari Palli village for one week with active participation of student volunteers in the following programs :

- i) Swachh Bharath
- ii) Education for Girl Child
- iii) Health, Family, welfare and Nutrition for Rural Women

Regular Camps were also organized by the NSS Unit during the academic year 2014-2015. Details of Regular and Special Camps organized by the Unit

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	96		Self	
Laboratories	154		Self	
Seminar Halls	13		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. 80.05 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. In this year few of the operations are switched to new ERP-NIVA.

4.3 Library Services:

	Existing		Newly added		Total	
	No.	Value (Rs)	No.	Value (Rs)	No.	Value (Rs)
Text Books	75840	17799050	9948	3517416	85788	21316466
Reference Books	14930	3550847	756	267307	15686	3818154
e-Books	0	0	0	0	0	0
Journals	178	294894	184	257993	362	552887
e-Journals	179	429620	1397	639560	1576	1069180
Digital Database	0	0	0	0	0	0
CD & Video	2904	0	112	0	3016	0
Others (specify)	NPTEL, DELNET					

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	1419	-	70 mbps	-	-	-	-	-
Added	150	-	40 mbps	-	-	-	-	-
Total	1569	-	110 mbps	-	-	-	-	-

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

Computers	: 1535
Internet Speed	: 110 mbps
Nettlinx, Hyderabad (30 Mbps, 1:1); BSNL VOBB (80 Mbps)	
e-Journals	: 225
(IEEE-ASPP-145; ASCE-34; Springer(ME)-46) NPTEL are provided for faculty and students.	

4.6 Amount spent on maintenance in lakhs :

i) ICT	Rs. 11.22 lakhs
ii) Campus Infrastructure and facilities	Rs. 168.99 lakhs
iii) Equipments	Rs. 325.40 lakhs
iv) Others	Rs. 297.3 lakhs
Total :	Rs. 4046.57 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

- In house training
- Training in Communication skills from I Year
- Training on life skills through finishing school.

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

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
4808	500	2	-

(b) No. of students outside the state

--

(c) No. of international students

--

No	%
3210	60.28

Men

No	%
2110	39.71

Women

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
2033	472	143	1717	-	4365	2525	557	172	2054	-	5308

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

126

5.5 No. of students qualified in these examinations

NET - SET/SLET - GATE 118 CAT 8

IAS/IPS etc - State PSC - UPSC - Others

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

393

5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
25	938	393	10

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 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	193	23,78,725
Financial support from government	3644	12,13,80,300
Financial support from other sources	58	55,68,000
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 EzSchool for automation. Also a new ERP solution is developed and implemented phase-wise.

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

The practices established are sustained through :

- Recruiting faculty and encourage them for continuing education for qualification and skills upgradation.
- Motivating faculty to undertake research and consultancy for quality outputs and internal revenue generation.
- Developing 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.
- Increasing 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:

- Self-learning
- Project based learning

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

- Guidance through research mentoring committees
- Formation of Research clusters
- Research talk in inter-disciplinary areas

6.3.5 Library, ICT and physical infrastructure / instrumentation

- Modern library under construction
- Establishment of smart class rooms
- Modern equipment and software for research.

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

- Tata Consultancy Services, East Mumbai
- Wipro Technologies, Bangalore
- IBM, Bangalore
- Infosys, Bangalore
- The State Of Andhra Pradesh For Implementation Of TEQIP – II Project
- CII - Confederation Of Indian Industry
- APSSDC
- Satyavani Projects And Consultants Pvt. Limited, Hyderabad
- My Home Constructions (P) Limited, Hyderabad
- Ravands Controls, Tirupathi, Andhra Pradesh, India.
- Dexterous Technologies, Nashik
- Civil-Aid Technoclinic Private Limited, Bangalore
- Ramp Information Technology Inc, Secunderabad
- Comp-India Infotech Pvt.Ltd
- Innovative Development Solutions, Bangalore
- Indian School Of Business, Hyderabad & Andhra Pradesh Society For Knowledge Networks For Technology Entrepreneurship Program

6.3.9 Admission of Students

The institution has an active website (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

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

6.5 Total corpus fund generated

Rs. 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	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 :

- 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.

- Outcome based education
- Evaluation using Blooms taxonomy.

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

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.

**Provide the details in annexure (annexure need to be numbered as i, ii,iii)*

7.4 Contribution to environmental awareness / protection

The NSS unit of the Institution conducts events like preservation of biodiversity and awareness on hazards in environmental pollution, which promotes sustained community development.

7.5 Whether environmental audit was conducted? Yes No

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
- Successful 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.
- Implementing good governance guidelines in line with the TEQIP good practice guide for governing bodies
- 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.
- Internet facility with bandwidth of 110 Mbps for the use of academic and administrative units.
- Automation of College administration with an ERP package – NIVA.
- AICTE grant of Rs. 67.5 lakhs for laboratory development under Modernization and Removal of Obsolescence Scheme (MODROBS) and Rs. 8 lakhs for establishment of Entrepreneurship Development Cell (EDC)
- 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

- Various proposals with a budget of Rs. 1.1 crores are funded by agencies like DST, INUP, ISRO-RESPOND and UGC for faculty research projects
- 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 Confederation of Indian Industry (CII) for enhanced Industry Interaction
- MoU with Knowledge Incubation for Technical Education (KITE) Centre, IIT, Hyderabad for faculty and students development programs
- MoU with Andhra Pradesh State Skill Development Corporation (APSSDC) with an objective of enhancing employability skills
- 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
- Organizing Technology Entrepreneurship Program (TEP) in collaboration with Indian School of Business (ISB), Hyderabad

Weaknesses:

- Many members of the faculty are still to acquire Doctoral Degree.
- 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:

- Effective Governance and Leadership
- 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.
- Upgrade the computing and internet facilities to facilitate e-learning, ICT enabled Teaching-Learning process, research and consultancy.
- Establish laboratories with sophisticated equipment and software to train students and to support post graduate programs, research and consultancy.
- Organize in-house pedagogical training, faculty development and staff training programs.
- Encourage the faculty to participate in national and international seminars/symposia.
- To enhance interaction with reputed institutes of high standards like IITs, IISc & NITs.
- 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.
- Emergence of new Engineering Colleges and entry of Foreign Institutions affecting the availability of quality faculty for recruitment and good students for admissions.
- 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.

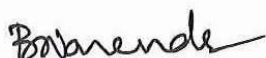
8. Plans of institution for next year

- Quality assurance and endurance through Accreditation by NBA in PG programs
- Development of effective information Management systems.
- Enhance research & development and consultancy competence.
- Expanding local, regional and national outreach for research and societal developments.
- Governance, Leadership and Accountability.

Mr.B.NARENDRA KUMAR RAO

Coordinator, IQAC

Sree Vidyanikethan Engineering College
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Sree Sainath Nagar, A.Rangampet



Signature of the Coordinator, IQAC

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Signature of the Chairperson, IQAC

Dr. P.C. KRISHNAMACHARY
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