

**Internal Quality Assurance Cell (IQAC)
Velagapudi Ramakrishna
Siddhartha Engineering College (Autonomous)
Vijayawada-7**



**Annual Quality Assurance Report (AQAR)
2016-17
ANNEXURE - 1**

Submitted to
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
An Autonomous Institution of the University Grants Commission
P. O. Box. No. 1075, Opp: NLSIU, Nagarbhavi, Bangalore - 560 072 India

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Part – A

1. Details of the Institution

1.1 Name of the Institution	Velagapudi Ramakrishna Siddhartha Engineering College
1.2 Address Line 1	Vasantha Nagar, Kanuru
Address Line 2	Bandar Road
City/Town	Vijayawada
State	Andhra Pradesh
Pin Code	520007
Institution e-mail address	principal@vrsiddhartha.ac.in
Contact Nos.	0866 2582333, 2584930
Name of the Head of the Institution:	Dr. A. V. Ratna Prasad

Tel. No. with STD Code:

Name of the IQAC Coordinator:

Mobile

IQAC e-mail address:

1.3 NAAC Track ID (For ex. MHCOGN 18879)

1.4 NAAC Executive Committee No. & Date:

(For Example EC/32/A&A/143 dated 3-5-2004. This EC no. is available in the right corner- bottom of your institution's Accreditation Certificate)

1.5 Website address:

www.vrsiddhartha.ac.in

Web-link of the AQAR:

www.vrsiddhartha.ac.in/IQAC/AQAR2016-17.pdf

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	A	3.17	2013	5 years

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

06/03/2014

1.8 AQAR for the year (for example 2010-11)

2016-17

1.9 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)

Date of submission of previous AQAR: 06-02-2017 (DD/MM/YYYY)

1.10 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 checked="" type="checkbox"/>				
Autonomous college of UGC	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>				
Regulatory Agency approved Institution Yes (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"/>		

1.11 Type of Faculty/Programme

Arts	<input type="checkbox"/>	Science	<input type="checkbox"/>	Commerce	<input type="checkbox"/>	Law	<input type="checkbox"/>	PEI (PhysEdu)	<input type="checkbox"/>
TEI (Edu)	<input type="checkbox"/>	Engineering	<input checked="" type="checkbox"/>	Health Science	<input type="checkbox"/>	Management	<input checked="" type="checkbox"/>		

Others (Specify) PG-MCA

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

Jawaharlal Nehru Technological
University Kakinada, Kakinada.

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University	UGC	
University with Potential for Excellence		UGC-CPE
DST Star Scheme		UGC-CE
UGC-Special Assistance Programme		DST-FIST
UGC-Innovative PG programmes		Any other (<i>Specify</i>)
UGC-COP Programmes		C O E

2. IQAC Composition and Activities

2.1 No. of Teachers

2.2 No. of Administrative/Technical staff

2.3 No. of students

2.4 No. of Management representatives

2.5 No. of Alumni

2.6 No. of any other stakeholder and Community representatives

2.7 No. of Employers/ Industrialists

2.8 No. of other External Experts

2.9 Total No. of members

2.10 No. of IQAC meetings held

2.11 No. of meetings with various stakeholders:

No.

Faculty

Non-Teaching Staff
Students

Alumni

Others

2.12 Has IQAC received any funding from UGC during the year? Yes No

If yes, mention the amount

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

- Training program for newly joined faculty on scientific engineering education practices by Teaching Learning Center – IIT Chennai
- Training for non-teaching staff on MS-Word and MS-EXCEL
- Research Methodologies and Guideline to paper publication
- Patent Drafting and Patent Protection Strategies

2.14 Significant Activities and contributions made by IQAC

- Academic audits were completed for the first time in all the engineering departments.
- Attractive Incentive policy was declared to promote Research and Development
- Construction of Compost shed is successfully completed.
- Two best practices were introduced - Implementation of Learning Management systems MOODLE and Technical model development were implemented throughout the institute
- Measures to Improve placements in core engineering departments (CE, ME and EIE)

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
MOODLE and technical models development are proposed as the best practice at the institute level.	All the departments adopted MOODLE and technical models are also developed.
Continuous up-gradation in modern teaching learning techniques	Training program for faculty on scientific engineering education practices by Teaching Learning Center – IIT Chennai
Construction of Compost Plant	Compost Plant is constructed
Identification of industries at department level for better placements and internships	Industries were identified in core engineering departments and placements & internships were improved

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				
PG	11	01	12	
UG	07		07	
PG Diploma			----	
Advanced Diploma			----	
Diploma			----	
Certificate			----	
Others			----	
Total	18	01	19	
Interdisciplinary				
Innovative				

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

The curriculum structure is designed as per the needs of the stakeholders. The courses offered in the curriculum facilitate to attain the expected knowledge, skills and attitude by the time stakeholders complete graduation as per their needs. The curriculum structure consists of following categories

CBCS, Self learning course (MOOCS), Institutional Core, Program Core, Program Electives, Independent Learning

- **Choice Based Credit System (CBCS)** :From the current Academic year Choice Based Credit System has been introduced both for VR10 (2013-14 batch only) and VR14. The regulations of CBCS are disseminated in VRSEC web site.
- **Self Learning Course (MOOCS)**: The students are expected to learn the courses offered under Self Learning Course on their own. The self-learning courses will be recommended by the department from the available open courseware. The course under this category carries two Credits.

Institutional Core: Institutional Core courses give the knowledge, skills and attitude

expected in UG engineering graduates of all programs.

- o Basic Sciences and Mathematics
- o Basic Engineering Sciences
- o Humanities and Social Sciences

- Program Core:** The Program core consists of set of courses considered necessary for the students of the specific program. The courses under this category should satisfy the program specific criteria prescribed by the appropriate professional societies.
- Program Electives:** The program electives are set of courses offered in the program which covers depth and breadth to further broaden their knowledge. The students may register for appropriate electives offered in the program based on their area of interest.
- Independent Learning:** The students are expected to learn the courses offered under this category on their own.
 - o Term Paper
 - o Mini Project and o Major Project
- Personality Development:** The courses offered under this category are to improve employability skills of the students. One course, spreading across two semesters, carrying one credit, will be offered in 3rd year.
- Student Practice:** Student Practice Courses are aimed at improving their professional competency. Student will have to participate successfully in the activities listed below. Student can earn one credit by participating in any two events from (a) or any one activity from (b), (c) and (d). Students have to acquire minimum one credit before completion of 6th semester of B. Tech.
 - (a) Co-curricular participation: Student should have participated in Technical Quizzes/Student paper contest/Seminars/Conferences etc., approved by the department.
 - (b) National Service Scheme (NSS): Student should have enrolled as a member of NSS at least for one year.
 - (c) National Cadet Corps (NCC): Cadet of NCC for a minimum period of one year.
 - (d) Games and Sports: Participation in the university level and above competitions.

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	20
Trimester	-
Annual	-

1.3 Feedback from stakeholders* (On all aspects)

Alumni	<input checked="" type="checkbox"/>	Parents	<input checked="" type="checkbox"/>	Employers	<input type="checkbox"/>	Students	<input checked="" type="checkbox"/>
Mode of feedback :	Online	<input checked="" type="checkbox"/>	Manual	<input checked="" type="checkbox"/>	Co-operating schools (for PEI)	<input type="checkbox"/>	

**Please provide an analysis of the feedback in the Annexure*

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

- Yes, The curriculum is updated as per the University ,Industrial requirements and stakeholders feedback.
- Syllabus and regulations are updated in A.Y 2016-17 and it is implemented from the A.Y 2017-18(VR17)VR17 syllabus has been implemented in phased manner, as a part of it, Choice Based Credit System (CBCS) and Self learning courses (MOOCS) are introduced and approved in the Board of studies (BOS) and in Academic Council.
- Open electives, general electives, and industry offered courses and industry need based electives are introduced in the new syllabus.

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

Yes, Geo Technical Engineering specialization under PG program is added in Civil Engineering Department

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty	Total	Asst. Professors	Associate Professors	Professors	Others
	368	293	37	40	0

2.2 No. of permanent faculty with Ph. D

74

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
31	0	4	31	4	0			39	31

2.4 No. of Guest and Visiting faculty and Temporary faculty

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	28	147	326
Presented papers	95	28	-
Resource Persons	1	2	20

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

MOODLE.- All departments are using MOODLE for implementation of Learning management system

ICT is being followed by all departments

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

220

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

- Bar coding - Automatic generation of Hall ticket, student specific OMR sheets,
- Double valuation for PG

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

368

2.10 Average percentage of attendance of students

80

2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				
		Distinction	I	II	III	Pass %
B. Tech-CE	211	92	88	20	0	94.79
B. Tech-CSE	207	123	55	22	0	96.62
B. Tech-ECE	282	146	94	20	0	92.20
B. Tech-EEE	145	60	67	12	2	97.24
B. Tech-EIE	109	44	35	8	0	79.82
B. Tech-IT	124	50	44	20	0	91.94
B. Tech-ME	210	104	81	15	0	95.24
TOTAL(UG)	1288	619	464	97	2	92.55
MCA	57	26	24	1	0	89.48
MBA	58	39	15	3	0	98.28
M.Tech(PG)	163	110	41	0	0	92.63

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

- IQAC is playing a vital role in conducting the Academic audit program, FDPs, Industry – institute interaction programs and Certificate courses.
- It motivates the faculty towards research activities and start working in the direction of patents. The departments are encouraged to conduct workshops to create awareness on research methodologies and patents among faculty.
- Creates policies and procedures to enhance the teaching and learning process
- Dr.Prasad Raju ,Scientist ‘G’ (Rtd) ,has been appointed as R &D project adviser
- Conducted Research methodologies and Guidelines to paper publication in EEE department on 23rd & 24th September,2016
- Conducted Two day Interactive program on Research Proposals preparation in Digital Image Processing in CSE department on 24th -25th ,Feb-2017

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	47
UGC – Faculty Improvement Programme	103
HRD programmes	-
Orientation programmes	2
Faculty exchange programme	-
Staff training conducted by the university	37
Staff training conducted by other institutions	87
Summer / Winter schools, Workshops, etc.	111
Others	80

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	43	1	0	20
Technical Staff	65	1	5	-

Criterion – III

3. Research, Consultancy and Extension

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

- The Management has approved and sanctioned attracted Incentive - Policy for R&D.
- The Academic Audit by experts from outside institutions is helping us to identify lapses in R&D of every department and to take necessary steps in the direction of improvement of R&D.
- Dr. Prasada Raju, Scientist ‘G’ (Rtd.), DST has been appointed as R&D Advisor to guide the faculty on research proposals to various funding agencies.
- IQAC motivated the faculty towards research activities and start working in the direction of patents. The departments are encouraged to conduct workshops to create awareness on research methodologies and patent filing. Two departments have taken initiatives and organized workshops on “Research methodologies and guidelines for paper publications and patents”.
- The departments have organized the following International conferences as a part of research activity.
 - 1) 3rd International Conference on “Emerging Technologies in Computer Science & Engineering”, 17-18, Oct 2016
 - 2) 2nd International Conference on “Aerospace Electronics, Electrical, communications & Instrumentation” 22-23, Oct 2016
- Encouragement is extended to present papers by faculty in international conferences either in India or abroad through TEQIP.
- Reimbursement of annual fee for Ph.D programs is extended in the academic year through TEQIP.
- Establishing MOUs with institution / organizations for training and Research & Development

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	06	06	02	33
Outlay in Rs. Lakhs	66.62	92.34	31.40	1797.35

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	09	--	01	01
Outlay in Rs. Lakhs	26.40	--	2.80	1.20

3.4 Details on research publications

	International	National	Others
Peer Review Journals	91	01	---
Non-Peer Review Journals	128	13	---
e-Journals	02	01	---
Conference proceedings	95	15	---

3.5 Details on Impact factor of publications:

Range	<input type="text" value="0.38-7.4"/>	Average	<input type="text" value="2.49"/>	h-index	<input type="text" value="03"/>	No's. in SCOPUS	<input type="text" value="68"/>
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3.6 Research funds sanctioned and received from various funding agencies, industry and other organizations (Rs in Lakhs)

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned	Received
Major projects	3 – 5	DLRL,DRDO, Anurag Labs, AICTE	112.44	46.96
Minor Projects	2	UGC	2.80	
Interdisciplinary Projects Industry sponsored	--	--	--	----
Projects sponsored by the University/ College	--	--	--	
Major projects University/ College	---	----	----	----

Students research projects <i>(other than compulsory by the University)</i>	---	---	---	---
Any other (Specify)				
Total			112.44	46.96

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/ Seminars organized by the institution	Level	International	National	State	University	College
	Number	03	26		--	--
	Sponsoring agencies	TEQIP, SAGTE			--	--

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

3.13 No. of collaborations

International	<input type="text" value="01"/>	National	<input type="text" value="08"/>	Any other	<input type="text" value="--"/>
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3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs:

From funding agency	<input type="text" value="83.01"/>	From Management of University/College	<input type="text" value="6.04"/>
Total	<input type="text" value="89.05"/>		

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	11
	Granted	03 (Published)
International	Applied	---
	Granted	---
Commercialized	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
03	01	01	01	---	---	---

3.18 No. of faculty from the Institution who are Ph. D. Guides and students registered under them

<input type="text" value="35"/>
<input type="text" value="106"/>

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 Fellow s 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

Some of the Activities:

- Participated in International Yoga Day.
- Participated in poster free Vijayawada.
- Tree plantation in Ladies Hostel.
- Participated in 'Digital India' workshop organized by NSS, JNTUK and won three prizes.
- Donated food in old age homes, orphanages.
- Swachh Bharat in College campus every week.
- Donated groceries to Koneru charitable trust.
- Blood donation and grouping in association with HDFC bank and Red Cross.
- Participated in Walk for 'Leave for legacy of life'.
- Conducted a rally under 'Green Club'.
- Swachh Bharat outside the College campus.
- 127 students worked under Youth welfare association during BhavaniDeekshalu at Durga temple.
- Conducted a Special camp on Demonetization, RTI act, Online money transfer and linking of Bank account with aadhar in 'Kasaranenivaripalem' village.
- Donated new clothes and blankets to poor and needy people.
- Mathematics instruments donated to Xth class students in Govt. High School.
- Book, pencils, pens donated to children in an orphanage home.
- Organized Women's day celebrations.
- Conducted an eye checkup camp in association with 'Gayatri Eye hospital'.
- Rally at Benz circle on the eve of 'World Water day'.
- Conducted a Free dental and diabetic camp in association with Denty's and Dr. Mohan's Diabetic hospital on the eve of 'World Health day'.

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities :(inSq-mts)

S. No	Particulars	Available Area(sq.m)
1	Instructional Area (Carpet Area)	26768.98
2	Administrative area (Carpet Area)	5246.5
3	Amenities area (Carpet Area)	10339.9
4	Circulation and other area*	12638.92
Total (Carpet Area)		54994.3
Grand Total		54994.3

4.2 Computerization of administration and library

- Library is fully computerized (OPAC): **Yes**
- Libsys and LSM software for library: **Yes**
- Computerization for search, indexing, issue/return records: **Yes**
- Digital Library **Yes, 23 Computers**
- Wi-Fi facility for the Library: **Yes**

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books(Titles)	67008	1,93,85,873	2033	11,04,351	70402	2,04,90,224
Reference Books	3779	19,75,000	25	57,500	3804	20,32,500
e-Books	48	3,40,486	57	4,97,047	105	8,37,533
Journals	141	2,42,006	19	39,160	160	2,81,166
e-Journals	4 2015-16	12,64,890	4 16-17	10,55,102	4	10,55,102
Digital Database	2	NIL	2	NIL	4	NIL
CD & Video	950	47,500	NIL	NIL	950	47,500
Others (text book volumes)	23	7,00,000	NIL	NIL	23	7,00,000

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	1611	16	100	1	01	14	09	
Added	150	02	20	1				
Total	1761	18	120mbps	02	01	14	09	

4.5 Computer, Internet access, training to teachers and students and any other programme for technology

Up-gradation (Networking, E-Governance etc.)

Internet details are 120 MBPS / 24 hours / leased line & without any Deficiency Total No. of Computers available: 1761

4.6 Amount spent on maintenance in lakhs (Rs):

i) ICT(Information & Communication Technology)	06.91
ii) Campus Infrastructure and facilities	
iii) Equipments	314.06
iv) Others	978.27
Total:	1299.24

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Workshop on Anti-ragging
- Yoga for health and concentration
- Safety with helmet
- Carried out periodic review meetings with students to identify the new student support services in collaboration with Dean Student Affairs by organizing meetings with students, parents and alumni.

5.2 Efforts made by the institution for tracking the progression

- Regular monitoring through continues evaluation -assignments, sessional examinations, home assignments and project reviews.
- Tracking the progress from first semester to second semester. Which is the key aspect in maintaining the carrier of a student
- Tracking the number of students based on attendance and marks of every semester and carrying out detailed analysis.
- Remedial classes after the first semester and subsequent semesters.
- Regular meetings with students and monitoring
- Faculty involvement through counseling system.
- Regular feedback from students.
- Bridge course for lateral entry students in mathematics and other subjects where ever required

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
5087	600	NIL	NIL

(b) No. of students outside the state

12

(c) No. of international students

NIL

Men	No	%	Women	No	%
	3434	60.38		2253	39.62

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
2969	690	204	1835	20	5718	2953	686	223	1825	-	5687

Demand ratio: 100% Dropout: 0.4%

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

- Online MCQ's for the preparation of the GATE, CAT, GRE ...etc.
- Personality development courses and student practice courses are part of the curriculum.
- Special coaching in fundamentals by senior faculty.
- Intensive and periodic coaching in English language and Communication Skills.

No. of students beneficiaries

808

5.5 No. of students qualified in these examinations

NET	---	SET/SLET	---	GATE	42	CAT	7
IAS/IPS etc	---	State PSC	---	UPSC	---	Others	---

5.6 Details of student counseling and career guidance

<input type="checkbox"/> Career guidance is given for final year students at department level and by Training and Placement Cell
<input type="checkbox"/> Bridge classes are conducted for first year students and diploma students at their first year.
<input type="checkbox"/> Remedial classes are conducted to weak students
<input type="checkbox"/> Proctor Dairy System is implemented for student counseling and guidance
<input type="checkbox"/> Weak students information such as attendance and marks are informed to their parents through SMS/registered posts by the concerned counselor.
<input type="checkbox"/> Each faculty is allotted 20 students. Attendance, marks, discipline and other related issues are taken care of by the proctor.
<input type="checkbox"/> Head of the department continuously monitors the system.
<input type="checkbox"/> System for career guidance including counseling for higher studies, industry interaction for training/internship/placement, Entrepreneurship cell and incubation facility is in place and is quite effective.

No. of students benefitted

2419

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
92	982	700	108

5.8 Details of gender sensitization programmes

- Women's day felicitation for women who achieved high qualification.
- Felicitating Woman who obtained awards, prizes etc.
- Inviting eminent women to motivate the faculty.

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 (in Lakhs)
Financial support from institution	130	21.25
Financial support from government	3028	1506.68
Financial support from other sources	----	----
Number of students who received International/ National recognitions	--	--

5.11 Student organized / 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

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision

To nurture excellence in various fields of engineering by imparting timeless core values to the learners and to mould the institution into a center of academic excellence and advanced research.

Mission

To impart high Quality technical education in order to mould the learners into globally competitive technocrats who are professionally deft, intellectually adept and socially responsible. The Institution strives to make the learners incucate and imbibe pragmatic perception and pro-active nature so as to enable them to acquire a vision for exploration and an insight for advanced enquiry.

6.2 Does the Institution has a management Information System

YES, Institute has its own MIS developed by the faculty to manage general administration, autonomous, examination, student attendance and continuous evaluation marks.

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

6.3.1 Curriculum Development

- Curriculum was revised based on feedback from stakeholders and peers.
- Self-learning courses
- Industry internship and industry offered courses.
- CBCS (Choice Based Credit System) is being followed

6.3.2 Teaching and Learning

- Massive Open Online Course (MOOCs): adopted in addition to traditional courses.
- All POs and PSOs are defined for each program and measured through direct and indirect assessments
- Use of Moodle-Online learning resource.
- Every faculty maintains course file with course outcomes, course delivery, and CO-PO mapping.

6.3.3 Examination and Evaluation

- 50% internal and 50% external evaluation by ratified faculty was introduced in 2016-17.
- Appointing internal and external squads to prevent malpractice during examinations
- Conduct and ethics to be observed in examination halls were displayed at all prominent locations in every department

6.3.4 Research and Development

- Dr.Prasad Raju, Scientist 'G' (Rtd), has been appointed as R&D advisor to guide in applying the funded projects.
- An amount of Rs.1,76,000 was honored for research publications in reputed journals (Scopus, SCI, etc) as incentive to 48 faculty to promote R&D.
- Financial support to model development and innovation by students.
- Patent filings are 11 and financial support is Rs.6,34,608.
- A total grant of Rs.91,91,560 was sanctioned by DST, AICTE, UGC, ISRO,etc.
- Encouragement towards publishing papers in quality journals such as Scopus and SCI
- Faculty attended to international conferences outside the country is five.

6.3.5 Library, ICT and physical infrastructure / instrumentation

- Lift arrangement is made in the new block
- Expansion of mechanical block
- 15 new labs established in Center of Excellence SIEMENS, CISCO Lab, Oracle Lab, NI Lab, Sensor and Signal Processing Lab, IBM Industry Collaborative Lab
- Libsys and LSM software for library management in existence.

6.3.6 Human Resource Management

- One week training program to faculty on scientific teaching in engineering by teaching learning center,IIT,Chennai.
- Performance based assessment system (PBAS) and career advancement scheme for Professors, Associate professors and Assistant professors is implemented since 2014.
- Training need assessment is done by each department and implemented.

6.3.7 Faculty and Staff recruitment

- Faculty and staff recruitment is done through open advertisement and by a selection board constituting of management members, principal, deans, respective HODs and outside subject expert.
- Priority is giving in faculty recruitment for candidates from reputed institutions such as IIT, NIT, etc.
- 1:15 faculty to student ratio in UG and 1:12 in PG are maintained.

6.3.8 Industry Interaction / Collaboration

- Industry offered course is introduced
- MOUs are made with industries by different departments to improve placements and internships
- Practical exposure to faculty and students by inviting industrial experts.
- Sri M.B.M.Raju, Head, Operational Excellence, TCS, Hyderabad is appointed as industrial expert in the governing body.

6.3.9 Admission of Students

- Admission of students are made as per norms (Rank obtained in entrance Examinations)
- 70% of seats based on entrance exam under government quota.
- 30% of seats on merit basis under management quota.

6.4 Welfare schemes for

Teaching	Subsidized health care for entire family at Dr.Pinnamaneni Siddhartha Institute of Medical Sciences and Research Foundation, sponsored by our management. Faculty welfare fund is created
Non teaching	Implementation of SyndArogya health insurance scheme Siddhartha Foundation Scholarships to the children of non-teaching staff for school/college education on merit cum means basis.
Students	Siddhartha Sahaya Scholarships to our students on merit cum means basis.

6.5 Total corpus/general fund generated

6.6 Whether annual financial audit has been done No

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	ISO	Yes*	Principal
Administrative	Yes	ISO	Yes	Principal

* - Regular Academic Audit has been carried out by involving experts from outside institutions, in all departments

6.8 Does the University/ Autonomous College declare 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

- 50% internal and 50% external evaluation by ratified faculty was introduced in 2016-17.
- Appointing internal and external squads to prevent malpractice during examinations
- Conduct and ethics to be observed in examination halls were displayed at all prominent locations in every department

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

- University faculty are taking part in various committees - Governing body, Board of Studies, and Academic Counsel for the improvement of curriculum, R&D, and other related academic activities.
- Continuous interaction between the faculty of our college and university for mutual benefit.

6.11 Activities and support from the Alumni Association

- The annual Alumni meet 2016, was held on 24th December 2016, which emphasized silver jubilee Re-union of batch 1987-91 where around 325 alumni participated
- Siddhartha Sahaya scholarships of worth Rs.21.25 Lakhs were awarded to 130 students on 8th April 2017.
- Sri Panda Siva Linga Prasad, MLA, for Cagary-Foothills, Edmonton, AB,Canada T5K 1E7 of 1980-84 batch was felicitated on January 21st 2017.
- Eminent alumni, Sri Vijay Veerapaneni of 1986-90 batch has delivered a guest lecture on Developments in “IT-Status co” to the pre-final year students of IT-Department on 10th Dec-16

6.12 Activities and support from the Parent – Teacher Association

- Annual informal meetings to identify the issues related to students.
- Regular meetings with parents for improving quality of students.
- Identification and remedy of student problems.

6.13 Development programmes for support staff

- A 5 day training program on MS-Word and Excel was conducted for the supporting staff from March 27th -31st 2016

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

- Environmental audit is done on July 11, 2016.
- Drip and Sprinkler system is in place.
- Greenery is maintained with lawns and plantation throughout the campus to make it eco-friendly.
- Food waste and greenery waste is converted into natural organic manure by the compost plant and the same is used for maintaining the greenery.

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.

1. Academic audit was carried out by involving experts from outside institution and universities in order to have more focus on the quality of academic activity of the institution

2. MOODLE (MODULAR OBJECTIVE – ORIENTED DYNAMIC LEARNING ENVIRONMENT)

Moodle is used for Assignment questions, Discussion Forum, Files Download, Video lectures, Grading, Instant Messages, etc.

3. Technical Models development

- Students are encouraged to develop prototypes in the respective fields
- Encouraged the students with financial support for the development of prototypes.

4. Improvement in internships leads to increase of core placements

5. Skill development through Siemens - Center Of Excellence, CISCO Lab, Oracle Lab, NI Lab, Sensor and Signal Processing Lab, and IBM Industry Collaboration Lab.

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

- Certificate courses - to fulfill the social responsibility and to get good recognition of the college in the society
- Regular academic audit- to find the lapses in academics and R&D and fulfill them
- Faculty training on regular basis-young faculty are trained on regular basis every year by TLC, IIT Chennai, NITTTR etc
- Best practices – MOODLE (A Learning Management System) and Innovative model development are considered as VRSEC best practices. The usage of MOODLE is made mandatory for all departments.
- Encouragement to students to develop technical models from 2nd year and with financial support from college for innovative ideas.
- Enhancement of placements in Core Engg. branches by identifying new industries and Industry – institute symbiosis.

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

1. MOODLE (Modular Objective – Oriented Dynamic Learning Environment)
2. Technical Models Development

7.4 Contribution to environmental awareness / protection

- Rally on Green Peace to save Earth
- Swatchh bharat every fortnight within the college campus and swatch bharat outside the campus.
- Tree plantation in Ladies Hostel
- Rally at Benz circle on the eve of ‘World Water Day’

7.5 Whether environmental audit was conducted? Yes No

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

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8. Plans of institution for next year

8. Plans of institution for next year

- Improvement in Library resources utilization.
- Revenue generation by the departments from corporate training programs for industry participants.
- Online payment of Tuition fee.
- Online payment of Examination fee.
- Full automation of college activities and Integration of all available software
- STP (Sewage Treatment Plant) - To treat the liquid waste generated and reuse of the treated waste for plantation and greenery in the campus to maintain zero discharge.
- AICTE- Clean & Green Campus:
 - Solid waste management
 - Water conservation and management including waste water management and reuse, rain water harvesting, etc
 - Energy conservation
 - Electronic waste management
- Departmental novelty centre – A separate room in every department is dedicated to develop/fabricate innovative models. The centre is equipped with basic requirements/ facilities made available to students.

Name _____


Dr. M.V.S. Raju
Professor

Signature of the ~~Coordinator~~ Engineering Department
IQAC
V.R. Siddhartha Engineering College
VIJAYAWADA - 520 007.

Name Dr. A.V. RATNA PRASAD.



Signature of the Chairperson, IQAC
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Abbreviations:

CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission
