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



Annual Quality Assurance Report (AQAR) 2015-16

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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The Annual Quality Assurance Report (AQAR - 2015-16) of the IQAC $\,$

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:	0866 2582333, 2584930	
Mobile:	+91 - 9849599497	

Name of the	e IQAC Coo	ordinators:	Dr.M.V.S.Raju				
Mobile:			09885199560				
IQAC e-ma	ail address:		iqac@v	vrsiddhartha	a.ac.in		
1.3 NAAC Track ID(For ex. MHCOGN 18879) APCOGN15299							
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) EC/65/A&A/28 Oct 25, 2013							
1.5 Websit	1.5 Website address: www.vrsiddhartha.ac.in						
Web-li	nk of the A	AQAR:	www	v.vrsiddhart	ha.ac.in/IQAC	C/AQAR2015-16.p	odf
	For e	ex. http://ww	w.ladykea	necollege.	edu.in/AQAl	R2012-13.doc	
1.6 Accred	itation De	tails					
	Sl. No. Cycle Grade CGPA Year of Validity Accreditation Period						
1 1 st Cycle A 3.17				2013	5	ı	
1.7 Date of	1.7 Date of Establishment of IQAC: DD/MM/YYYY 06/03/2014						
1.8 AQAR 1	1.8 AQAR for the year (for example 2010-11)						

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

AQAR 2014-15

1.10 Institutional Status						
University		State	C	Central	Deemed	Private
Affiliated College		Yes	✓	No		
Constituent College		Yes	✓	No		
Autonomous college of	f UGC	Yes	√	No		
Regulatory Agency app	proved Institution	on Yes	✓	No		
(Eg. AICTE, BCI, MCI	, PCI, NCI)					
Type of Institution	Co-education	✓	Men		Women	
Financial Status	Urban Grant-in-aid Grant-in-aid +		Rural UGC 2(f) ncing	✓ ✓	Tribal UGC 12B Fotally Self-finan	cing 🗸
1.11 Type of Faculty/Prog	gramme					
Arts		Commerce	e 🔲 La	aw 🔲	PEI (PhysE	Edu)
TEI (Edu)	Engineering [✓ Heal	th Science	;	Management	√
Others (Specify	. PG-M	МСА				
1.12 Name of the Affiliati	ng University (f	for the Col	lleges)		arlal Nehru Tech sity Kakinada, K	~

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

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	СОЕ
		•	
UGC-Innovative PG programmes		Any other (Specify)	
UGC-COP Programmes			
UGC-COP Programmes			

2. IQAC Composition and Activities	10
2.1 No. of Teachers	10
2.2 No. of Administrative/Technical staff	09
2.3 No. of students	01
	02
2.4 No. of Management representatives	01
2.5 No. of Alumni	
2. 6 No. of any other stakeholder and	01
Community representatives	
2.7 No. of Employers/ Industrialists	01
2.8 No. of other External Experts	
2.9 Total No. of members	25
2.10 No. of IQAC meetings held	04
2.11 No. of meetings with various stakeholders: Non-Teaching Staff Students 01	No. 04 Faculty 01 Alumni 01 Others
2.12 Has IQAC received any funding from UGC d	uring the year? Yes No
If yes, mention the amount	
2.13 Seminars and Conferences (only quality related	ed)
(i) No. of Seminars/Conferences/ Workshops	/Symposia organized by the IQAC
Total Nos. 02 International	National te Institution Level 02
(ii) ThemesArt of Technical TeAwareness on research	eaching ch methodologies and patents

The IQAC has introduced first time **Academic audit** in Engineering departments .The Proforma for audit is developed and circulated among the departments. The audit committee has been formed with Professors to audit various departments. The lapses were discussed in 10^{th} IQAC meeting .THE HOD's are directed to take up corrective measures to rectify the lapses as per the audit report.

In order to improve **Quality of student projects**, the IQAC has proposed the departments to organize FDPs, Industry – institute interaction programs to make the faculty update on latest trends and current societal problems. it in turn helps the faculty and students to do innovative and societal need project works.

As a part of quality policy and the directions of IQAC, the departments have organized **industry-institute programs (IIP)** with Government, Public and private organizations/Industries like State Electricity Board, Effectronics, APIIC, etc.

IIPs are helped

- in updating currents trends of industry
- to identify the problems of societal needs and problem tackling capacity of faculty and students
- student internship which in turn helps for better employment
- to develop capabilities of entrepreneurship

Certificate courses are proposed in various Engineering disciplines to impart latest trends in engineering to professionals and students. The objective of conducting certificate courses is to serve the society by sharing and updating the knowledge for the people in various sectors in science and technology. IQAC decided to conduct one certificate course in an academic year by each department. Electrical, Mechanical & Computer Science departments have already conducted certificate courses on MATLAB applications to Electrical Engineering, ANSYS WORKBENCH &ANSYS Software and Data Analytics respectively in 2015-16

The chairman and the Coordinator of IQAC have motivated the departments to develop research activities and start working in the direction of patents. In this connection, few departments have come forward to organize workshops on Research methodologies to create awareness in this direction among the faculty & students. ECE and Mechanical departments have applied for patents.

IQAC has conducted two week **Faculty Development Program** on Art of Technical Teacher Training from 21st March to 6th April 2016, with an objective to inculcate Teaching skills to young faculty. Ten senior Professors from various engineering departments have involved in training the Junior Faculty covering various topics on OBE, Professional ethics and values, communication skills, teaching methodologies and time management. The no of participants are 55. After observing the over whelming response from the trainees, IQAC has decided to conduct such programs on regular basis. The outcome of this is resulted in establishment of Faculty Training Center (FTC)

IQAC has planned to establish **Faculty training centre(FTC)** to impart training to the faculty who are recruited in a particular academic year. In this context, the IQAC has appointed committee with three members headed by a chairman to prepare contents of training and methodology of assessment of trainees. The training program is made mandatory for all the new faculty

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 Verification of question papers, conducting of • Examination/evaluation system semester end exams and revaluation have been Assessment the quality of questions in successfully completed. the question paper in semester end examination and continuous evaluation. Certificate courses on MATLAB applications to Electrical Engineering, ANSYS WORKBENCH & • Teaching and Learning ANSYS Software and Data Analytics have been Following are proposed for the improvement of Teaching – Learning Process conducted Certificate courses in various Engg. disciplines All engineering disciplines have conducted faculty **Faculty Development Programs** development programmes in the current trends in engineering and technology. Industry-Institute Interaction Programs. The departments have organized industry- institute Quality Student Projects. programs (IIP) with Government, Public and Pedagogical Training to young faculty private organizations/Industries like State Electricity Board, Effectronics, APIIC, etc. • Technical Training to Supporting Staff. By conducting FDPs ,organizing industry institute • Infrastructure interaction program and certificate courses both the Implementation of Solid Waste Management. faculty and students have enriched their knowledge which in turn develop quality projects Enhancement of built up space as per the sanction intake. IQAC has conducted two week Faculty Development Program on Art of Technical Teacher Training from 21st March to 6th April 2016 One of the staff from IT has undergone in LINUX administration for 5days in ESC Solid Waste Management programme is implemented.

5,280sq feet plinth area has been added to the

existing to the new block

Part - B

Criterion - I

1. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	progra duri	umber of ammes added ng the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	3 Departments this year	s(CSE,l	ECE,ME) wer	re recognized as i	research centers in
PG	11		01	12	
UG	07		07		
PG Diploma			_		
Advanced Diploma					
Diploma					
Certificate					
Others					
Total	18		01	19	
Interdisciplinary					
Innovative			l	L	1

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 stake holders completes 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 attitudeexpected 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.

category on their own. o Term Paper	The students are expec	cted to learn the courses offered unde	er this					
o Mini Project and o Major Project								
	students. One course	red under this category are to ime, spreading across two semesters, can	_					
competency. Student will Student can earn one credi	have to participate at by participating in a	are aimed at improving their profess successfully in the activities listed be any two events from (a) or any one ac- tinimum one credit before completion of	elow. ctivity					
	-	t should have participated in Tecl ars/Conferences etc., approved by						
o (b) National Service S at least for one year	·	nt should have enrolled as a member of	f NSS					
	•	NCC for a minimum period of one ye university level and above competitions						
(ii) Pattern of programmes:								
	Pattern	Number of programmes]					
	Semester	19	1					
	Trimester							
	Annual							
1.3 Feedback from stakeholders* (On all aspects)	Alumni I	Parents Employers	Students					
Mode of feedback :	Online N	Manual Co-operating schools	(for PEI)					
*Please provide an analysis of the feed	lback in the Annexure							

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

The curriculum is normally updated for every four years based on the stakeholders' feedback.

VR14 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.

Some major changes such as attendance based erasure of marks, credits, marks and duration of internal examinations, etc (for details refer VR14 regulations in website) have been brought in the curriculum

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

Three Research centers are approved by JNTUK during 2014-2015 academic session in the following departments:

- Civil Engineering
- Electrical & Electronics Engineering
- Project room in EEE-The center is intended to develop good projects
 which cater the needs of the society. The management has invested
 around RS2.25lacks as an initial investment. This is helping the
 students to develop their ideas into practical projects. One of such
 projects has gone for patent.

It is proposed to have same kind of practice in all the core departments.

Criterion - II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
357	292	31	34	

2.2 No. of permanent faculty with Ph. D

54

2.3 No. of Faculty PositionsRecruited (R) and Vacant(V) during the year

Ass Profes			ciate ssors	Profe	essors	Others	3	Total	
R	V	R	V	R	V	R	V	R	V
32	34	5	2	1	2			38	38

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	50	48	
Presented papers	64	41	
Resource Persons	07	01	08

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

MOODLE/POGIL.- So far MOODLE is partially implemented by all the departments at under graduate level.

However the IT, CSE and EEE departments are already utilizing the MOODLE.

It is decided to extended MOODLE for all the departments as one the best practices.

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

255

- 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
- 2.10 Average percentage of attendance of students

82

2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students	Division						
	appeared	Distinction %	I %	II %	III %	Pass %		
B. Tech-CE	210	92	76	27	1	93.3		
B. Tech-CSE	213	119	60	24	0	95.3		
B. Tech-ECE	279	137	113	19	0	96.4		
B. Tech-EEE	139	80	48	07	0	97.1		
B. Tech-EIE	134	42	57	24	1	92.5		
B. Tech-IT	122	51	44	21	0	95.0		
B. Tech-ME	207	87	84	24	1	94.7		
TOTAL(UG)	1304	608	482	146	3	95.0		
MCA	55	24	25	02		92.73		
MBA	58	39	15	03		98.28		
TOTAL(PG)	176	122	44	02		95.5		

- 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. Two departments have taken initiatives and organized workshops 1. Research methodologies and guide lines for paper publications 2.patents
 - A two week FDP on art of teaching for young faculty is organized by IQAC from 21st march to 6thapril 2016.
 - Creates policies and procedures to enhance the teaching and learning process

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	35
UGC – Faculty Improvement Programme	45
HRD programmes	44
Orientation programmes	02
Faculty exchange programme	
Staff training conducted by the university	69
Staff training conducted by other institutions	80
Summer / Winter schools, Workshops, etc.	115
Others	60

Faculty development programmes conducted -Department wise

	CE	CSE	ECE	EEE	EIE	IT	ME	MAT	PHY	IQAC & MBA	TOTAL
No. of events	1	1	4	2	1	3	1			01	13
No. of days	6	6	22	8		23 & 90				01	162

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	6	2	21
Technical Staff	66	4	3	

Criterion - III

3. Research, Consultancy and Extension

- 3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution.
 - 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 patents among faculty. 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

- 3. International conference on Smart& Sustainable cities Feb26-27 2016
- Faculty is encouraged to present papers in international conferences either in India or Abroad through TEQIP.
- The Annual fee for Part time Ph.D faculty is reimbursed through TEQIP
- Incentives for research publications.
- Establishing MOUs with institution / organizations for training and Research & Development

3.2 Details regarding major projects

	Completed	Ongoing	Ongoing Sanctioned Submit	
Number	01	09	01	10
Outlay in Rs. Lakhs	22	137	10	2.68 crores

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	02	05	01	42
Outlay in Rs. Lakhs	6.5	21.7	4.5	1.87 crores

3.4 Details on research publications

	International	National	Others
Peer Review Journals	96	07	
Non-Peer Review Journals	89		
e-Journals	20		
Conference proceedings	81	15	

3.5 Details on Impact factor of publications:

	0.8-					No's. in	
Range	3.8	Average	2.4	h-index	02	SCOPUS	62

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	33.8	17.3
Minor Projects Interdisciplinary Projects	2	UGC 	5.5 	5.5
Industry sponsored Projects sponsored by the University/ College	2	DRDL	9	2.7
Major projects University/ College				

Students research project (other than compulsory by the Universit								-
Any other(Specify)	<i>y)</i>					-		
Total					48	3.3	25.5	
3.7 No. of books published	i) With	ISBN N	o. 01	Chapters i	n Edite	d Books	13	
	ii) With	nout ISB1	N No. 01					
3.8 No. of University Depa	rtments r	eceiving	funds from					
	UGC-SA	AP 01	CAS	.]	DST-F	IST	01	
	DPE				DBT S	cheme/fu	inds	
•	Autonom INSPIRE	`	CPE CE	·		tar Schen		
3.10 Revenue generated thi	ough cor	nsultancy	190 Lakh	S				
3.11 No. of conferences	Lev	/el	International	Natio	nal	State	University	College
organized by the	Num	ıber	01	02		02		
institution	Spor	nsoring cies	TEQIP, SAGTE	DST, APWI	RD	TEQI PII	-	
3.12 No. of faculty served a	as experts	s, chairpe	ersons or resource p	persons		21		
No. of 3.13 collaborations		Intern	national 01	Nat	tional	08	Any other	r
3.14 No. of linkages created	d during	this year	02					
3.15 Total budget for resea	rch for cu	ırrent yea	ar in lakhs:					
From funding agency	73	.8 Fro	om Management of	f Univers	ity/Col	lege		4
Total	77.	.8						

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Revised Guidelines of IQAC and submission of AQAR

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	15
National	Granted	
International	Applied	
	Granted	
Commercialised	Applied	
Commerciansed	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
02			02	-			
no are Pi I studen	culty from the l h. D. Guides ts registered un	der them		<u></u>	94	,	
o. of Pl	n.D. awarded by	faculty from	the Insti	itution			04
	JRF 3	s receiving th		ships (Ne Project Fe		_	sting ones
o. of st	udents Participa		vents:				
	Uni	versity level		State le	vel	9	95
	Nat	ional level		Internat	ional level	_	
lo. of st	udents participa	ted in NCC e	events:				
	Uni	versity level		State le	vel	110	
	Nat	ional level		Internat	ional level		
No. of A	wards won in N	SS:					
	Univ	ersity level		State lev	el	01	
	Natio	nal level		Internation	nal level		7

3.24 No. of Awards won in NCC:
University level State level
Notional level International level
National level International level
3.25 No. of Extension activities organized
University forum College forum 02
NCC 14 NSS 24 Any other
3.26 Major Activities during the year in the sphere of extension activities and Institutional Social
responsibility
Some of the Activities: Nisited 'Mother Toross Ashrom' for denotion of old slothes at Nume
Visited 'Mother Teresa Ashram' for donation of old clothes at Nunna Organised Teacher's day calchestions. Faligitated 7 feaulty members (Ph.D. 's in 14.15)
 Organised Teacher's day celebrations. Felicitated 7 faculty members (Ph.D 's in 14-15 Swachh Bharat Program (removal of plastic in campus)
 Blood donation camp in association with NTR trust blood bank. 170 students donated
their blood.
Received 'Saviour of life' award from Indian Red Cross Society
Cleaned and painted the bus stop
Donated food, rice cooker and foot ball
• Donated Rs. 15,000.00 to Pranathi, Guntur for her medical expenses (Liver problem)
Donated food in anadasramam
Donated 25 blankets in anadha vrudha ashramam welfare association, seethramapuran
Tree Plantation Program
Rally on the occasion of 'International Women's day'
Seminar on First Aid by Dr. Madan Mohan, Redcross Blood Bank, Vijayawada
On the occasion of 'World Health day' organized a free medical camp
• Donated an Amount of Rs. 15,000.00 to GSR welfare association
Donated 150 units of blood to Redcross blood bank
• Collect an amount of Rs. 1,14,911.00 from staff and students and donated to Akshaya Patra foundation
 510 volunteers worked as Pushkar sevaks under Vijayawada Police and 100 volunteers
worked under Akshaya Patra trust for food donation during Krishna Pushkara's 2016
Donated food in old age home

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)	26613
2	Administrative area (Carpet Area)	5085
3	Amenities area (Carpet Area)	10680
4	Circulation and other area*	12419
	Total (Carpet Area)	54797
5. Ongo	ng construction 3 rd floor on Mechanical Block	800
Grand T	Cotal	55597

4.2 Computerization of administration and library

- o Library is fully computerized (OPAC)
- o Libsys and LSM software for library
- o Computerization for search, indexing, issue/return records
- o Digital Library
- o Wi-Fi facility for the Library.

4.3 Library services:

	Existing		Newl	y added	Total	
	No.	Value	No.	Value	No.	Value
Text Books(Titles)	65000	1,83,56,522	5402	14,40,000	70402	1,97,96,522
Reference Books	3629	16,50,000	150	3,25,000	3779	19,75,000
e-Books			48		48	
Journals	145	2,15,030	15	37,522	160	2,51,723
e-Journals	4		4			
	2013-14	11,69,956	14-15	12,64,890	4	12,64,890
Digital Database	9	NIL	2	NIL	11	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	1471	16	40	1	01	14	09	
Added	140	02	60	1				
Total	1611	18	100mb ps	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 40 MBPS / 24 hours / leased line & without any **Deficiency** Total No. of Computers available: **1611**

4.6 Amount spent on maintenance in lakhs (Rs):						
i) ICT(Information & Communication Technology)	11.40					
ii) Campus Infrastructure and facilities						
iii) Equipments	186.84					
iv) Others	785.65					
Total:	983.89					

Criterion - V

5. Student Support and Progression

- 5.1 Contribution of IQAC in enhancing awareness about Student Support Services
 - Training for placement, scholarships to weaker sections, Bus facility, Hostel facility, Bridge courses, Remedial classes, training for Competitive exams
 - Various student support services which are identified and listed in the college website.
 - 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 continuous evaluation -assignments, sessional examinations, home assignments and project reviews.
 - Tracking the progress from previous semester to current 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.
 - Faculty involvement through counseling system.
 - Periodical meetings with students by the HOD concerned.
 - Regular feedback from students.
 - Bridge course for lateral entry students in mathematics and other subjects where ever required

UG PG Ph. D. Others 5.3 (a) Total Number of students 5082 636 NIL NIL (b) No. of students outside the state 20 (c) No. of international students NIL No No % Men Women 58.74 3359 2359 41.25 Last Year This Year General SC ST OBC Physically Total General SC ST OBC Physically Challenged Challenged 2993 2969 690 204 676 185 1756 8 5618 1835 20 Demand ratio: 100% Dropout: 0.57% 5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- Training for students for GATE examination.
- 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.

132 No. of students beneficiaries

5.5 No. of students qualified in these examinations

NET SET/SLET **GATE** 39 CAT 10 IAS/IPS etc State PSC **UPSC** Others 83 Total

5718

5.6	Details	of	student	counseling	and	career	guidance
•••		-	50000		*****		D

- o Proctor is implemented for student counselling and guidance
- o Each faculty is allotted 20 students. Attendance, marks, discipline and other related issues are taken care of by the proctor.
- o Head of the department continuously monitors the system.
- System for career guidance including counselling for higher studies, industry interaction for training/internship/placement, Entrepreneurship cell is in place
 - and is quite effective.
 - Placement Coordinator at department level is deputed to look after the career guidance of the respective departments. The Coordinator guides the students in association with college training placement cell

No. of students benefitted

1637

5.7 Details of campus placement

	Off Campus		
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
77	982	559	75

5.8 Details of gender sensitization programmes

- Women's day felicitation for women faculty who achieved high qualification.
- Felicitating faculty who obtain 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	128	National level	11	International level	
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	No. of students participated in cultural events							
	State/ University level 178 National le	evel 10 Intern	ational level					
5.9.2 Sports:	No. of medals /awards won by students in Special State/ University level 28 National le		events ational level					
Cultura	l: State/ University level 71 National l	evel Inter	national level					
5.10Schola	arships and Financial Support							
		Number of students	Amount (in Lakhs)					
	Financial support from institution	5727	2170.3893					
	Financial support from government	2958	1367.8810					
	Financial support from other sources		715.8302					
	Number of students who received International/ National recognitions							
	lent organised / initiatives : State/ University level	AFO Intern	national level					
	, <u> </u>							
Exhibition	: State/ University level National le	evel Intern	national level					
5.12 No.	of social initiatives undertaken by the students	NSS						
-	grievances of students (if any) redressed: 01 ices in college canteen – the prices were revised	d.						

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 inculcate 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 IT 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

Periodical review of the Curriculum for every four years based on inputs from stakeholders and peers.	
☐ Introduced self-learning courses ☐ Introduced CBCS	
☐ Industry internship and industry offered courses.	

6.3.2 Teaching and Learning

- Massive Open Online Course (MOOCs): adopted in addition to traditional courses.
- Separate administration setup to plan and monitor teaching and learning based on course outcomes.
- Use of Moodle-Online learning resource.
- Structured course file, capturing the performance of the students with respect to course outcomes, course delivery and course assessments.
- POGIL: Process Oriented Guided Inquiry Learning is implemented for selective courses in IT dept.
- Faculty Training Program was organized

6.3.3 Examination and Evaluation

- Bar-coding.
 Automatic generation of Hall ticket, student specific OMR sheets, Seating plan, etc for utmost confidentiality and quick processing.
- Spot valuation to declare the results of final semester students with in two weeks.

6.3.4 Research and Development

- Separate Research cell with Dean R & D is established to give support in terms of guidance in applying funded projects & for all type of research promotions.
- R&D committee to review, monitor and progress of Research and Development.
- Financial Incentives for research publications in reputed journals.
- Students projects-mini and major projects.
- Conducting workshops by experts from using funding agencies such as DST and DRDO
- Sponsored projects-obtaining and execute successfully.
- International Conferences were organized by all the departments.
- Patents were filed for registration.

6.3.5 Library, ICT and physical infrastructure / instrumentation

- Libsys and LSM software for library management in existence.
- Campus Wi-Fi is operational.
- Construction of guest house is in progress.

6.3.6 Human Resource Management

- Performance based assessment system (PBAS) and career advancement scheme for Professors, Associate professors and Assistant professors is implemented since 2014.
- Training need analysis 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.
- Special recruitment for candidates from reputed institutions such as IIT, NIT.
- Special preference for candidates with high gate score.

6.3.8 Industry Interaction / Collaboration

Industry Interaction programs were conducted by the departments in order to promote internship, Industry oriented projects and update the curriculum in line with industrial requirements.

MOU with local industries to impart knowledge to students Ex: APGENCO, BSNL, KCP, Lanco and ALEAP are in place. Guest lectures for faculty and students with industrial experts.

6.3.9	Admission of Students			
		Admission of students are made as per norms (Rank obtained in EAMCET Examination conducted by State government)		
		70% of seats based on entrance exam under convener government quota.		
		30% of seats based on merit in +2 entrance exam under management quota		

Teaching	Subsidized health care for entire family at the SAGTE Medical College. Faculty welfare fund. Admission to the children of faculty on priority in all 16 institutions run by Siddhartha Academy of General and Technical Education (SAGTE).
Non teaching	Subsidized health care for entire family at SAGTE Medical college. Faculty welfare fund. Admission to the children of faculty on priority in management runs institutions.
Students	Siddhartha Sahaya Scholarships to poor students. Siddhartha Foundation Scholarships to poor students

6.5 Tota	ıl corpus/general fun	d generated	37.69 crores		
	ether annual financia ether Academic and		· L	No been done?	
	Audit Type External Internal			nal	
		Yes/No	Agency	Yes/No	Authority
	Academic	Yes	ISO	Yes	Principal
	Administrative	Yes	ISO	Yes	Principal
6.8 Doe	s the University/ Au Fo	tonomous Colleş		within 30 days?	
	Fo	r PG Programme	es Yes	No 🗸	

6.9 What efforts are made by the University/ Autonomous College for Examination	
Bar-coding System	
Automatic generation of Hall ticket, student specific OMR sheets, Seating plan, etc	
for utmost confidentiality and quick processing	
	_
5.10 What efforts are made by the University to promote autonomy in the affiliated/constituent olleges?	
Not Applicable	
5.11 Activities and support from the Alumni Association	
☐ Alumni meet is conducted every year	
☐ Guest Lecture are conducted through alumni	
☐ 50% contribute from Alumni towards Siddhartha Sahaya scholarship.	
☐ Building of alumni database.	
5.12 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 solution of student problems. 	
5.13 Development programs for support staff	
☐ Sponsored to attend continuous education programs and to improve qualification ☐ encouragement and leave provision to enhance their qualification	n.
5.14 Initiatives taken by the institution to make the campus eco-friendly	
☐ Environmental audit is done for this year.	
☐ Drip and Sprinkler system is in place.	
☐ Greenery, lawns and plantation is developed and maintained in major places the campus to make as eco-friendly.	of

Criterion - VII

7. <u>Innovations and Best Practices</u>

- 7.1 Innovations introduced during this academic year which have created a positive impact on the Functioning of the institution. Give details.
 - Academic audit is successfully conducted first time in the college and lapses in various departments were identified, steps have been initiated by the respective departments to fill the lapses.
 - **Certificate courses** were introduced and conducted by the departments in various fields.
 - For new faculty, a two week faculty training program on "Art of Teaching" was organized.
 - To strengthen teaching learning process, it is proposed to establish **Faculty Training Center (FTC)**. Every new faculty must undergo the training program conducted by FTC every year.
 - **Performance Based Assessment System** (PBAS) for Professors, Associate Professors and Assistant Professors. It resulted growth in research in terms of Registration & award of PhDs, Research publications and sponsored research projects and quality improvement in teaching & learning process.
 - Industry –institute interaction programs were accelerated by various departments to get benefits like faculty exposure to current trends in industries, internships, industry oriented projects and placements.
- 7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the Beginning of the year
 - Academic audit
 - Quality of student projects,

FDPs.

Industry – institute interaction programs

- Certificate courses
- Research activities and Patents.
- Faculty Development Program on Art of Technical Teaching
 - Faculty training centre(FTC)
- Training students for placements.
- Environmental audit for campus
- Online Student feedback was introduced.
- Floor space over new block has been increased and all the floors are connected with lift
- Equipment purchase.
- Faculty recruitment.
- Licensed software for various departments

	 a. Implementation of learning management system -MOODLE in all departments b. Technical Models preparation c. Performance Based Assessment System (PBAS) in the area of Teaching
	Learning, co-curricular, extra-curricular, R & D and administration. d. Implementation of Bar-coding in Examination and Evaluation System
4 Co	ntribution to environmental awareness / protection
	☐ NSS activities to support environmental awareness
	☐ Environmental awareness workshops.
	☐ Plantation.
	☐ Swachh Bharat is implemented
.5 Wh	ether environmental audit was conducted? Yes No
.6 An	y other relevant information the institution wishes to add. (for example SWOT Analysis
	SWOT analysis is carried out

8. Plans of institution for next year

> Examination/evaluation system

 Setting of question papers for Internal and External Examinations implanting Bloom's Taxonomy, to convene the Outcome Based Education.

> Teaching and Learning

- Development of online feedback from students
- Training to young faculty through Faculty training Center

> Research Activity

- Establishment of Innovation and Incubation centers.
- Interaction with eminent Scientists and Researchers.
- Organization of programs in collaboration with premier institutes.

> Placements

 Steps taken by T&P and the departments together to improve the placements in core areas

> Infrastructure

- Siemens Centre of Excellence
- Automation software for college activities.
- Library space enhancement.
- Augmentation of facilities for sports and games.
- · Additional Hostel for ladies
- Setting-up of Sewage Treatment Plant (STP).

Signature of the Coordinator, IQAC

Name: Dr M V S Raju

Signature of the Chairperson, IQAC
PRINCIPAL

Namer Smith M. Rengiae Prices & dlege AUTONOMOUS VIJAYAWADA-520 007.

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
