

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE



Estd. 1980

Annual Quality Assurance Report (AQAR) 2017-18

Submitted to



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद्

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An autonomous Institute of University Grants Commission

P.O. Box NO. 1075, Opp. NLSIU, Nagarbhavi, Bangalore -560072 India

The Annual Quality Assurance Report (AQAR) of the IQAC

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. (Note: The AQAR period would be the Academic Year. For example, July 1, 2017 to June 30, 2018)

Part – A

AQAR for the year

2017-18

I. Details of the Institution

1.1 Name of the Institution

Sagi Rama Krishnam Raju Engineering College

1.2 Address Line 1

China Amiram

Address Line 2

Bhimavaram

City/Town

West Godavari Dist.

State

Andhra Pradesh

Pin Code

534204

Institution e-mail address

principal@srkrec.ac.in
principalsrkrec@gmail.com

Contact Nos.

08816-223332

Name of the Head of the Institution:

Dr. G.P. Saradhi Varma

Tel. No. with STD Code:

08816-222748

Mobile:

Name of the IQAC Co-ordinator:

Mobile:

IQAC e-mail address:

1.3 NAAC Track ID (For ex. MHC0GN 18879)

OR

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:

Web-link of the AQAR:

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	A	3.60	2016	5 years
2	2 nd Cycle	-	-	-	-
3	3 rd Cycle	-	-	-	-
4	4 th Cycle	-	-	-	-

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

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*)

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 checked="" 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"/>								

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

Jawaharlal Nehru Technological University
Kakinada (JNTUK)

1.12 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

SIRO Recognition

UGC-COP Programmes

2. IQAC Composition and Activities

2.1 No. of Teachers

12

2.2 No. of Administrative/Technical staff

04

2.3 No. of students

-

2.4 No. of Management representatives

01

2.5 No. of Alumni

01

2.6 No. of any other stakeholder and community representatives

01

2.7 No. of Employers/ Industrialists

01

2.8 No. of other External Experts

-

2.9 Total No. of members

20

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

- Induction Program for entry level students
- Soft Skills Training Programs
- Program on Design Thinking
- Program on Youth Empowerment and Women Entrepreneurship
- Awareness program on MOOCs and Open Educational Resources

2.14 Significant Activities and contributions made by IQAC

- Preparation of academic calendar
- Regular Planning, Coordinating and monitoring of academic activities
- Students are motivated by conducting seminars and guest lectures.
- Collecting feedback from students, parents and alumni and is used for development of academics in the institute.
- Conducting co-curricular and extracurricular activities for overall development of students.
- Performance improvement of weak students by counselling and mentoring process.
- Providing Campus Recruitment Training (CRT) and career guidance programs.
- Organizing Industry Interactive Programs.
- Encouraging students to develop innovative ideas by organizing boot camps, Hackathons
- Students are motivated to participate in social development activities in rural areas.
- Encouraging research activities among faculty members, research output by establishing centre of excellences.

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
Preparation of Academic Schedule	Autonomous syllabus (R17) for the academic year 2017-18 has been prepared in time, communicated to all concerned and hosted on the college website.
Improvement of Quality Education	<p>To achieve the goal of quality education in addition to regular academics, the college provided various support training facilities as follows</p> <ul style="list-style-type: none"> • Skill Development Centres • English Testing Centre • Training centres • GATE Coaching, GRE, TOEFL and CAT Training Centers for higher education • Organized seminars by inviting the eminent personalities to motivate the students and staff.
Development of Research Activities	<ul style="list-style-type: none"> • Departments of CSE, ECE, EEE, IT, Mechanical and Mathematics are established with recognized Research Centres by JNTUK in the year 2017-18. • Two Centres of Excellence namely Delta Research and Extension Centre (DREC) and Centre for Archaeology, Technology and Cultural Heritage (CATCH) were established in addition to the existing 15 Centres of Excellences to spread the research in various areas. • The faculty are constantly encouraged to submit project proposals to various funding agencies. Due to this research projects, seminar grants, FDPs were sanctioned from various funding agencies. • Providing the support to publish the papers in reputed international journals. • Collaborated with IUCEE-EPICS-Purdue University Design Thinking and student projects

Expansion of National and International Collaborations	<ul style="list-style-type: none"> • Industry-Institute collaborations have been improved by providing consultancy services, by organizing regular meetings with representatives of industries, by undertaking the collaborative research projects, by inviting them as members in various bodies, resource persons for various events etc. • Collaborated with 9 National organizations like National Remote Sensing Centre (NRSC), National Research Development Corporation (NRDC), Sri Sri Institute for Advanced Research (SSIAR) etc. • Collaborated with 7 foreign universities in terms of student internships, mobility for faculty, students and research. <ul style="list-style-type: none"> i. 8 students selected for University Innovation Fellows (UIF) Program by Stanford University, USA and attended Silicon Valley Meetup. ii. 8 Students selected for Student Exchange Program by University of Applied Sciences, Upper Austria. iii. 4 students selected for Master’s Program in Telecommunications by University of Jaen, Spain with scholarship for tuition fee and living expenses.
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2.15 Whether the AQAR was placed in statutory body Yes No

Management Syndicate Any other body

Provide the details of the action taken

Faculty are encouraged to publish research papers in Scopus indexed journals and in impact factor journals. Faculty are encouraged to upgrade their knowledge by participating faculty development programs, workshops and short term programs.

Part – B

Criterion – I

I. 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	6	1	-	-
PG	6	-	-	-
UG	6	-	-	-
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others	-	-	-	-
Total	18	1	-	-
Interdisciplinary	-	-	-	-
Innovative	MSME	-	-	-

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

- Curriculum is designed in the form of Choice Based Credit System (CBCS).
- Elective options during their 3rd year and 4th year of UG program.
- Introduced MOOCs courses for developing self learning of the students.

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	12 (UG: 6, PG: 6)
Trimester	-
Annual	-

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

Mode of feedback Online Manual Co-operating schools (for PEI)

Student feedback format is enclosed.

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

- Curriculum was revised in 2017-18 which consists of 180 credits and in unit wise format.
- Introduced value added programs as per industry requirements.
- Inner Engineering and NCC are added at first year UG level for overall development of the students.
- All the students are encouraged to undertake industrial internships and mini projects for real time experiments

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

- CM's Skill Excellence Centre by APSSDC
- CISCO Networking Academy
- IIT Bombay Remote Centre
- IIT Bombay – Spoken Tutorial
- Nanotechnology Research Centre
- Delta Research and Extension Centre (DREC)
- Centre for Archeology, Technology and Cultural Heritage (CATCH)
- Space Technology Research Centre (STRC)

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
434	314	39	81	-

2.2 No. of permanent faculty with Ph.D.

102

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
37	-	3	-	1	-	-	-	41	-

2.4 No. of Guest and Visiting faculty and Temporary faculty

15

10

-

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	52	130	30
Presented papers	102	9	-
Resource Persons	1	4	5

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

- Industrial oriented training
- Elective system
- NPTEL online Lectures and Course assignments
- Digital Learning Centre
- MOOCS Courses
- Value added courses in association with APSSDC
- Business English Certification program in association with APSICHE and British Council
- Training programs on English Proficiency

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

211

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

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

70	68	110
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2.10 Average percentage of attendance of students

81

2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
UG PROGRAMMES						
Civil Engineering	213	30.04	32.86	-	-	62.90
Computer Science & Engineering	283	59.71	6.71	-	-	66.43
Electronics & Communication Engineering	284	49.29	30.63	-	-	79.92
Electrical & Electronics Engineering	216	86.00	3.00	-	-	88.00
Information Technology	182	35.00	38.00	-	-	73.00
Mechanical Engineering	288	58.68	8.30	-	-	67.01
PG PROGRAMMES						
Structural Engineering	18	50.00	33.33	-	-	83.33
Computer Science & Technology	26	50.00	26.92	-	-	76.92
Communication Systems	19	52.60	26.31	-	-	78.94
Power System Automation	16	56.25	25.00	-	-	81.25
Information Technology	05	80.00	0	-	-	80.00
CAD/CAM	18	38.80	33.30	-	-	72.22

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

- Suggestions on quality teaching/learning processes.
- Monitoring of students attendance
- Regular monitoring of class work and syllabus coverage
- Analyzing the results
- Feedback from students in a structured questionnaire.
- Suggestions regarding motivation and counselling of students

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	32
UGC – Faculty Improvement Programme	15
HRD programmes	-
Orientation programmes	16
Faculty exchange programme	2
Staff training conducted by the university	-
Staff training conducted by other institutions	70
Summer / Winter schools, Workshops, etc.	80
Others	-

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	74	-	-	12
Technical Staff	72	-	-	12

Criterion – III

3. Research, Consultancy and Extension

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

The IQAC in coordination with Dean R&D takes the initiatives in sensitizing/promoting research climate in the institution:

- Meetings will be conducted to the faculty members to review publications, research projects etc. They are encouraged to publish research papers in Scopus Indexed and impact factor Journals.
- Awareness about importance of research, innovation and various funding agencies for applying projects to the young faculty.
- Encouraging the faculty to carryout consultancy by collaborating with industry and other organizations.
- To develop innovative ideas through i-Hub (Innovative, Industry, Incubation) of the Institute.
- Students and faculty are exposed through the Centres of Excellence present in the Institute for real time experience.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	1	6	6	26
Outlay in Rs. Lakhs	5.67	129.524	191.894	1540.87

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	-	2	2	-
Outlay in Rs. Lakhs	-	8.00	7.378	-

3.4 Details on research publications

	International	National	Others
Peer Review Journals	340	2	-
Non-Peer Review Journals	-	-	-
e-Journals	47	-	-
Conference proceedings	102	09	-

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 in Rs. Lakhs	Received in Rs. Lakhs
Major projects	3 Years	DST	71.784	51.49
	5 Years	DST-FIST	30.00	14.00
	3 Years	AICTE-RPS	19.64706	19.35235
	1 Year	AICTE	26.28	7.88
	2 Years	DST-INDO KOREAN JOINT RESEARCH PROJECT	15.19	9.31
	2 Year	DST-INSPIRE	29.00	10.57
Minor Projects	2 Year	UGC	3.00	2.40
Interdisciplinary Projects	-	-	-	-
Industry sponsored	-	-	-	-
Projects sponsored by the University/ College	-	-	-	-
Students research projects <i>(other than compulsory by the University)</i>	1 Year	MSME	4.378	-
Any other: Faculty development/refresher programs sanctioned	1 Week	AICTE-ISTE	3.00	-
	2 Weeks	AICTE	6.74775	3.37388
Any other: Seminar Grants sanctioned	6 Days	SERB	1.00	1.00
	2 Days	SERB	1.00	1.00
Total			211.02681	120.37623

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

75.66 Lakhs

3.11 No. of conferences

organized by the

Institution

Level	International	National	State	University	College
Number	1	3	-	-	-
Sponsoring agencies	SRKR Engineering College	Workshop-SERB FDP-AICTE Conference-SRKR Engineering College	-	-	-

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

15

3.13 No. of collaborations

International

7

National

10

Any other

1

3.14 No. of linkages created during this year

20

3.15 Total budget for research for current year in lakhs:

From funding agency

120.38

From Management of University/College

14.00

Total

134.38

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	2
	Granted	-
International	Applied	-
	Granted	1
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
6	2	3	1	-	-	-

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

14

and students registered under them

44

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

03

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

JRF

2

SRF

Project Fellows

Any other

3.21 No. of students Participated in NSS 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="-"/>

3.22 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="1"/>	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="1"/>	International level	<input type="text" value="-"/>

3.25 No. of Extension activities organized

University forum	<input type="text"/>	College forum	<input type="text"/>		
NCC	<input type="text"/>	NSS	<input type="text" value="4"/>	Any other	<input type="text" value="9"/>

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

- Blood Donation Camps
- Swatch Bharat Activities
- Asset mapping of villages of East and West Godavari Districts
- Provided food and clothes to mentally challenged people
- 2K Run- An awareness program on plantation, Swatch Bharat, effect of environment by using plastic
- Science Fair "Prajna" to create awareness on latest technologies to the school students
- Karthika Deepotsavam was organized for people of Bhimavaram surrounding areas.
- Fine Arts classes (Leaf Art, Clay Moulding, Free Hand Painting etc) for students
- Adopted 5 villages under Unnat Bharat Abhiyan program
- Conducted International Day of Yoga

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 Acres	-	SRKR Engineering College Association	30 Acres
Class rooms	118	4		122
Laboratories	82	2		84
Seminar Halls	9	1		10
No. of important equipments purchased (\geq 1-0 lakh) during the current year.		17		
Value of the equipment purchased during the year (Rs. in Lakhs)		141.85		
Others		210.00		

4.2 Computerization of administration and library

- The central library is automated with Library Management System.
- Digital Library Facility
- Automation management system

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	56562	1,44,16,536	5775	7,02,688	62337	1,51,19,224
Reference Books	6285	14,16,225	642	78,075	6,927	14,94,300
Journals	101	17,34,118	5	73,926	106	18,08,044
e-Books					2397	22,59,488
e-Journals					580	
Digital Database	-	-	-	-	-	-
CD & Video	2677	-	82	-	2759	-
Others (specify)	DELNET	62,500	DELNET	13,570	DELNET	76,070

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	1564	22	300	8	8	13	13	-
Added	150	1	117	-	-	-	-	-
Total	1714	23	417	8	8	13	13	-

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

- Training program on Cyber Security for faculty.
- Summer Internship programs on JAVA and ORACLE Application Development, PYTHON Programming, PHP Project Training, Android Mobile App Development.
- CISCO Certification Program on IoT, Python, Cyber Security.
- IIT Bombay Spoken Tutorial JAVA Certification.
- Microsoft Virtual Academy Python Certification.
- Mean Stack and Cloud Developer Workshop.
- Level-0 Workshop on IOT.
- Python Certification Training Course.
- Google Android Certification Training Course in association with APSSDC & Google.
- Workshop on iBootup IoT Series Organized by Andhra Pradesh Innovation Society and iB HUBS.

4.6 Amount spent on maintenance in lakhs:

i) ICT	26.29
ii) Campus Infrastructure and facilities	161.63
iii) Equipments	3.88
iv) Others	101.52
Total:	293.32

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Separate Counselling Cell is established with full time faculty as a Counselling Coordinator.
- Training programs on personality development
- Separate classes are conducted for aptitude and soft skills.
- Conducted workshops and seminars on career guidance, interview skills and group discussion skills.
- Conducted lectures on motivating the students by the experts in various fields.

5.2 Efforts made by the institution for tracking the progression

- The college ensures efficient students progressions through mentoring system, timely intervention & counselling through Counselling & Career Guidance Cell and by collecting feedback from various stake holders.
- The respective departments also keep track of the student's progression.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
6563	229	30	-

(b) No. of students outside the state

67

(c) No. of international students

24

Men	No	%	Women	No	%
	4766	70.17		2026	29.82

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
3245	801	126	2045	24	6241	3487	869	154	2253	30	6792

Demand ratio: 100%

Dropout %: 0.5%

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

Yes, the college is providing the following facilities for coaching for competitive examinations:

- GATE Coaching Centre
- GRE and TOEFL Coaching Centres
- Digital library with periodicals, competitive examination books and other required material to prepare for competitive exams
- Communication Skills improvement programs through APSCHE British Council Communication Skills Project, Cambridge Certified British English Course, Global English Testing Service Centre
- Guest lectures to bring awareness about various competitive exams and their career options
- Support is extended by the faculty, as and when required

No. of students beneficiaries

5.5 No. of students qualified in these examinations

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

5.6 Details of student counselling and career guidance

Several counselling cum guidance programs were held periodically for the students by Counselling and Career Guidance Cell.

- This cell mainly monitors students with poor academic performance.
- This cell created e-learning platform for students to useful information related to their technical or career interests.
- Faculty will act as mentors to the small group of students. Mentors mainly focuses on career goals, interests, areas of improvement and also in personality development of students.
- Organizing orientation programs for career guidance.

No. of students benefitted

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
45+17	850	613	97

5.8 Details of gender sensitization programmes

- Women Empowerment Cell is established to identify gender related issues of girl students and women faculty.
- Every year celebrating International Women's Day on 8th March.
- Making short films by students and staff related to gender issues.
- Awareness programs were organized by the College related to safety and security of women.
- Encouraging girl students to participate in various events and projects.

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
Financial support from institution	-	-
Financial support from government	3621	19,18,21,800
Financial support from other sources	60	4,00,000
AICTE PG Scholarship	15	22,32,000

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:

Sagi Rama Krishnam Raju Engineering College will be offering Engineering and Technology Programs of choice, where parents want to send their children, where students want to learn, where employees seek Quality Engineers and Technologists, where Industry and Government find Technological Innovations.

Mission:

Eminence in Technical Education through the quality of programs, teaching and research with social relevance.

6.2 Does the Institution has a Management Information System

- Student Information System
- Library Management System
- Online Notice Board
- Examination Portal
- Administration and Accounts Automation System

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

6.3.1 Curriculum Development

- Curriculum development is based on requirements of stake holders such as students, employers and alumni.
- Curriculum is upgraded by introducing additional courses such as Communication Skills, Industrial Oriented Training (IOT).
- Curriculum is discussed and developed by concerned department faculty along with HOD and it will be finalized in Board of Studies (BoS) meeting.
- The curriculum is modified as per the suggestions given by members of BoS and approved in the Academic Council.

6.3.2 Teaching and Learning

- Interactive teaching
- Audio-visual teaching methods
- Practical Oriented teaching

The college provided all the necessary facilities such as modern teaching aids, audio-visual teaching methods, internet resources and ICT, MOOCs Online Courses, NPTEL online lectures, ZF innovation online assignments,

6.3.3 Examination and Evaluation

The evaluation system consists of Internal and External process.

Internal Evaluation Process includes:

- Conducting two internal assessment examinations in each semester
- A minimum of two assignments are given by the teacher
- Seminars are conducted for some of the subjects

External Evaluation Process:

- Examination is conducted at the end of each semester by the Examination Section (Autonomous).

6.3.4 Research and Development

- The college is recognized as Scientific and Industrial Research Organization (SIRO) by DSIR, Govt. of India.
- Research Committee has been constituted with the Principal as the Chairman of the Committee..
- Established 19 centres of Excellence to carry out research and developmental activities in the respective areas
- Established Design Centre
- The Dean (R&D) conducted periodical meetings, lectures by eminent personalities to faculty

6.3.5 Library, ICT and physical infrastructure / instrumentation

- Library is a resource centre with collection of books, journals, e-books, e-journals, DELNET and NPTEL videos.
- It has ICT infrastructure which consists of desktops, printers, internet facility, LCD projectors, software and dedicated server with power backup.
- Library is completely automated with Library Management System
- All transactions in the library are computerised
- Established e-learning centre
- Reading room is provided with reference books.
- Separate section is provided for magazines and news papers
- E-journals and E-books are subscribed
- All engineering departments established their own department library with concerned subject books
- Wi-Fi enabled campus

6.3.6 Human Resource Management

- Organization of faculty development programs
- Faculty are encouraged to participate in STTPs, FDPs, Seminars organized by various other institutes
- Faculty are encouraged to carryout research projects from various funding agencies.
- Performance assessment of faculty is performed
- Providing financial support to motivate towards innovations and start-ups

6.3.7 Faculty and Staff recruitment

On the basis of the vacancy positions, advertisement will be given in the news papers and college website. Screening of the resumes will be done by concerned subject experts and constituted selection committee. For the posts of Assistant Professors, the received applications are scrutinized, and short listed candidates will be called for interview and teaching demonstration. The selection committee consists of Principal, concerned HOD, subject experts and other senior professors. The selection committee is constituted by Principal by the directions of the Management.

6.3.8 Industry Interaction / Collaboration

Institute established Industry Interaction Cell headed by Head-Industry Interaction.

- The institute collaborated with more than 35 industries for student internships, training programs, faculty exchange programs, collaborative research Industry experts are invited for guest Lectures, seminars and workshops.
- Industrial visits are arranged for the students and encouraged to do their projects with industry collaboration.
- 75 MoUs with Foreign Universities, Institutions and Industries.
- 19 Centers of Excellence are in campus.

6.3.9 Admission of Students

Admission of students is done as per the norms prescribed by the Andhra Pradesh State Government and JNTUK.

For UG programs, the students are admitted as per the rank obtained in the EAMCET examination conducted by the A.P. State Govt. and for PG programs, the students are admitted as per the rank in GATE, PG CET examinations conducted by the Govt.

Management quota seats filled based on the guidelines given by government from time to time.

6.4 Welfare schemes for

Teaching	PF, Medical Facility, Health Insurance
Non teaching	PF, Medical Facility, Health Insurance
Students	Medical Facility, Health Insurance, Free food for economically backward students

6.5 Total corpus fund generated

Rs. 14,40,73,568/-

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	Principal and IQAC Team
Administrative	-	-	Yes	Principal and IQAC Team

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?

The SRKR Engineering College has included the integrated software for the purpose of examinations.

- Examination portal supports timely management of examination schedules, results and other related issues. End examination question paper setters are from other colleges and universities. The evaluation of answer scripts by the faculty of other colleges.
- CGPA system is followed for the award of division

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

The University Grants Commission conferred Autonomous Status to SRKR Engineering College for a period of 6 years from the academic year 2016-17. The affiliating University also conferred the Autonomous Status from the academic year 2016-17.

6.11 Activities and support from the Alumni Association

- SRKR Engineering College has Alumni Chapters throughout the world.
- USA East Coast Chapter, USA West Coast Chapter, Bangalore Chapter, Hyderabad Chapter, Chennai Chapter, Vishakhapatnam Chapter, Bhimavaram Chapter. These chapters plays an important role in the development of the institute and also continuously gives suggestions to the college authorities.
- Annually they are going to meet in the campus.
- Alumni of this college conducted training programs in communication skills to the students.
- They are providing the financial support to students and also for the college to develop infrastructural facilities.

6.12 Activities and support from the Parent – Teacher Association

- Parents were always called for by the faculty members for the benefit of their wards. Parent-Teacher association meeting was also held every semester.
- Every day SMS alert is sent to parents about their ward's attendance.
- Head of the Institution, HODs and Teachers interact with parents as and when required to communicate academic progress, attendance and their behavioural issues.

6.13 Development programmes for support staff

- The college has supported to upgrade their knowledge through the workshops, seminars and conferences.
- To give financial support for being the higher education purposes. The college has conducting the communication skill courses to improve their communication skills.

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

- Old plants were preserved and a few new small trees were planted after cleaning the campus.
- The college has taken initiations by establishing Solid Waste Management system, installation of Solar plantations, Rain water harvesting system etc for the purpose of clean energy.
- In every 15 days conducts the Swatch Bharat Program by NSS faculty coordinator and students.

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.

- Andhra Pradesh State Skill Development Centre (APSSDC) to established APSSDC-Dassault Systems Lab.
- Remote Centre of IIT Bombay for empowerment of students and faculty through eLearning, Spoken Tutorials, Virtual labs, Workshops etc.
- Selected as a Test Practice Centre (TPC) by National Testing Agency (NTA), MHRD, Govt. of India.
- Collaborated with Bennett University for "Deep Learning and AI skills" Project.
- Selected for Educational Collaboration with EPICS (Engineering Projects in Community Service) in IEEE. SRKR is one among 13 Indian Engineering Colleges and Universities selected by IEEE & EPICS-Purdue.
- Indo Universal Collaboration for Engineering Education (IUCEE) College Consortium Member and IUCEE EPICS Partner Institution 2017-18 for Purdue University Design Thinking Program.
- IUCEE-IIIECP (IUCEE International Engineering Educators Certification Program) with Austria University.
- Recognized as a CISCO Networking Academy in November 2017.
- Recognized as National Cyber Defence Resource Centre by National Cyber Safety and Security Standards, New Delhi.

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

The minutes were forwarded to respective departments/sections for effective implementation of the action plan.

The head of the institute continuously monitors the execution of plans and decisions taken in various meetings.

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

Best Practice 1: Promotion of Research

Best Practice 2: Upgrading Knowledge and Inculcating Social Responsibility

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

Details are given in the annexure.

7.4 Contribution to environmental awareness / protection

The college organizes a special environmental concerned programs namely as

- Collaborated with Mana Uru (Our Village) and Mana Neeru(Our Water), Bhimavaram for initiating the project to clean and rejuvenate water bodies in and around Bhimavaram. Through this program organized
 - (a) In association with Bhimavaram Municipality organized rally to create awareness on water
 - (b) Students of SRKR Engineering College participated in canals cleaning process.
- An awareness program was conducted on Bioenzyme and explained about preparation and uses of bioenzyme.
- Conducted 2K Run to create awareness on Tree Plantation, Swatch Bharat, Awareness on plastic etc.
- Adopted five villages under Unnat Bharat Abhiyan Program of MHRD to transfer the technology to rural villages by identifying the issues through baseline survey.
- 250 students conducted survey for identifying the community related problems in villages. 15 problems were identified and will be solved by IUCEE-EPICS (Indo Universal Collaboration for Engineering Education-Engineering Projects in Community Service) process for the benefit of community partners.
- A social program “Making the Largest Plough” was conducted to inspire India’s Youth to take up cultivation by using cutting edge technologies and enrich natural resources for better livelihood
- Swatch Bharat Activity was conducted in surrounding villages.

7.5 Whether environmental audit was conducted? Yes No

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

STRENGTHS:

- Well qualified and experienced faculty.
- High retention rate of staff
- Excellent infrastructure and adequate Research Labs are available.
- Departments Civil, CSE, ECE, EEE, IT, Mechanical & Mathematics are recognized as Research Centres.
- i-Hub (Innovation, Incubation, Industry) to promote innovation and entrepreneurship among students.
- Accredited with ‘A’ Grade by NAAC with CGPA of 3.60/4.00 scale.
- Ranked as 85th in top 100 Engineering Colleges in India in National Institute Ranking Framework NIRF-2018, 81st rank in NIRF-2017 and 73rd rank in NIRF-2016 by Ministry of Human Resource Development, Govt. of India.

- Recognized as Scientific and Industrial Research Organization (SIRO) by Ministry of Science and Technology, Government of India.
- Recognized as Business Incubation Centre (MSME) by Ministry of Micro, Small and Medium Enterprises, Govt. of India.
- CM'S SEC (CM Skill Excellence Centres) was granted by Andhra Pradesh State Skill Development Corporation (APSSDC), Government of Andhra Pradesh.
- Located at good and eco-friendly environment and very near to Bhimavaram town.

WEAKNESSES:

- Communication skills of students as many are belongs to rural back ground
- Achieving good ranks in GATE and CAT examinations
- Interaction with industry
- Entrepreneurship skills among students

OPPORTUNITIES:

- Upgrading the knowledge and skills by attending to various workshops, exchange programs at reputed institutes
- Certifications of faculty in their respective subjects using available online subject portals
- Establishment of dedicated research labs with latest equipment
- Encouraging faculty to undertake funded projects
- Development of alumni institute relationship

THREATS:

- Demand of engineering education in future
- Admissions into college depends on employability opportunities which varies according to the government policies and growth rate

8. Plans of institution for next year

- To update curriculum as per the current industry requirements
- To increase research activity and funded projects
- To motivate students towards innovations and start-ups
- To increase placement opportunities to students
- Motivating students to take add on courses and inculcating entrepreneurship skills

Name: **Dr.KVM Krishnam Raju**

Signature of the Coordinator, IQAC

Name: **Dr. G.P. Saradhi Varma**

Signature of the Chairperson, IQAC

Annexure-I

S.R.K.R. ENGINEERING COLLEGE: CHINNA AMIRAM: BHIMAVARAM		
ACADEMIC CALENDAR FOR 2017-2018		
College reopens on 14-06-2017		
IV/IV B.Tech All Branches(AU)		
	I Semester	II Semester
Class work / Instruction	14-06-17 to 14-10-17	01-11-17 to 10-03-18
	14/6/17 to 9/7/17 CRT training and 10/7/17 class work resumes	
I Mid Examinations	16-08-17 to 22-08-17	03-01-18 to 06-01-18
II Mid Examinations	09-10-17 to 14-10-17	07-03-18 to 10-03-18
III Mid Examinations (OL)	09-10-17 to 14-10-17	07-03-18 to 10-03-18
Preparation days for Exams	15-10-17 to 22-10-17	11-03-18 to 18-03-18
End Exams Commence on	23-10-17	19-03-18

III/IV B.Tech All Branches(AU)		
	I Semester	II Semester
Class work / Instruction	14-06-17 to 24-10-17	13-11-17 to 20-03-18
I Mid Examinations	16-08-17 to 22-08-17	22-01-18 to 29-01-18
II Mid Examinations	17-10-17 to 24-10-17	14-03-18 to 20-03-18
III Mid Examinations (OL)	17-10-17 to 24-10-17	14-03-18 to 20-03-18
Preparation days for Exams	25-10-17 to 31-10-17	21-03-18 to 27-03-18
End Exams Commence on	01-11-17	28-03-18
CRT / Mini Project : 05-04-18 to 17-04-18		
University Second semester Lab exams : 18-04-18 to 30-04-18		

II/IV B.Tech All Branches(AU Autonomous)		
	I Semester	II Semester
Class work / Instruction	19-06-17 to 31-10-17	22-11-17 to 04-04-18
I Mid Examinations	23-08-17 to 30-08-17	22-01-18 to 29-01-18
II Mid Examinations	25-10-17 to 31-10-17	29-03-18 to 04-04-18
Preparation / Practical exams dates.	01-11-17 to 12-11-17	05-04-18 to 17-04-18
End Exams Commence on	13-11-17	18-04-18

I/IV B.Tech All Branches (JNTUK Autonomous)		
	I Semester	II Semester
Class work / Instruction	01-08-17 to 02-12-17	26-12-17 to 28-04-18
I Mid Examinations	03-10-17 to 09-10-17	19-02-18 to 24-02-18
II Mid Examinations	27-11-17 to 04-12-17	23-04-18 to 28-04-18
Online/Objective Examinations	27-11-17 to 04-12-17	23-04-18 to 28-04-18
Preparation / Practical exams dates	05-12-17 to 17-12-17	29-04-18 to 13-05-18
End Exams Commence on	18-12-17	14-05-18

S.R.K.R. ENGINEERING COLLEGE: CHINNA AMIRAM: BHIMAVARAM		
MONTH	LIST OF HOLIDAYS	No. of Working Days
June, 17	18 & 25 Sundays, 26 th Ramzan	14
July, 17	2, 9, 16, 23 & 30 Sundays	26
August, 17	6, 13, 20 & 27 Sundays, 14 th Sri Krishna Janmashtami, 15 th Independence Day, 25 th Vinayaka Chavithi	24
September, 17	3, 10, 17 & 24 Sundays, 2 nd Bakrid, 28 th Durgaastami, 29 th Mahanavami, 30 th Vijaya Dasami	22
October, 17	1, 8, 15, 22 & 29 Sundays, 1 st Moharrum, 2 nd Mahatma Gandhi Jayanthi, 19 th Deepavali	24
November, 17	5, 12, 19 & 26 Sundays	26
December, 17	3, 10, 17, 24 & 31 Sundays, 1 st Milad Un Nabi, 25 th Christmas	24
January, 18	7, 14, 21 & 28 Sundays, 1 st New year, 26 th Republic day	17
February, 18	4, 11, 18 & 25 Sundays, 13 th Mahasivarathri	23
March, 18	4, 11, 18 & 25 Sundays, 2 nd Holi, 18 th Ugadi, 25 th Sriramanavami, 30 th Good Friday,	25
April, 18	1, 8, 15, 22 & 29 Sundays 5 th Jagajjivan Ram Jayanthi 14 th Dr. B.R. Ambedkar Jayanthi	23
May, 18	6, 13, 20 & 27 Sundays	---
	Total No. of Working Days	248

Dasara Holidays: 28-09-17 to 02-10-17
Pongal Vacation : 07-01-18 to 16-01-18

The College closes for summer vacation from 01-05-18 to 10-06-18 without prejudice to conduct of examination or any other work assigned by Principal or H.O.D. and reopens on 11-06-18

Submission of Mid / Sessional Marks

Year	Semester	I Mid	II Mid	Sessionals
4/4 B.Tech	I	26-08-17	18-10-17	18-10-17
	II	18-01-18	14-03-18	14-03-18
3/4 B.Tech	I	26-08-17	27-10-17	27-10-17
	II	03-02-18	23-03-18	23-03-18
2/4 B.Tech	I	04-09-17	04-11-17	04-11-17
	II	03-02-18	09-04-18	09-04-18
1/4 B.Tech	I	14-10-17	09-12-17	09-12-17
	II	28-02-18	03-05-18	03-05-18

G.P.S. Reddy

PRINCIPAL,
S.R.K.R. Engg. College
BHIMAVARAM-534 204.

FACULTY FEEDBACK

2017-18

The Online Feedback System of SRKREC

Feedback for:

Subject:

1. How does the teacher explain the subject?
 Excellent Good Satisfactory Poor
2. How much opportunity does the teacher give for questions and discussions?
 Ample Occasional Rare Never
3. How does the teacher simulate you to think about the subject?
 Highly Moderately Rarely Never
4. How much of the subject material in the syllabus does the teacher complete?
 Above 90% 70-90% 50-70% Below 50%
5. When does the teacher return the corrected assignment/class test papers?
 In next class After one week After one month Never returns
6. How is the language (clarity of communication) of the teacher?
 Excellent Good Satisfactory Poor
7. Comment on the teacher's control and command over the class?
 Excellent Good Satisfactory Poor
8. Does the teacher victimize or show favoritism to same students?
 Never Occasionally Frequently Always
9. How punctual is the teacher to classes?
 Always on time Occasionally late Frequently late Never on time
10. Is the teacher's voice audible?
 Well audible Adequate Not adequate Poor

Suggestions / Remarks:

RESET

SUBMIT FEEDBACK

Best Practice 1

Title of the Practice- Promotion of Research

The R & D centre has been established to promote research among faculty and to motivate innovative ideas in the students.

Objectives:

- To get the national/international research projects from industry, government agencies and other private organization.
- To establish advanced research labs to perform research at high standard.
- To motivate the faculty to apply for the major and minor research projects by providing guide lines and details of funding agencies
- To collaborate with other reputed institutions and universities in India and abroad
- To encourage the faculty to organize workshops, seminars and conferences.
- To encourage the faculty and the students to participate in workshops, seminars, FDPs, STTPS and conferences.

The Context:

Nowadays the technological scenario is changing quickly and we need to continuously upgrade knowledge and update equipment. The institute invites experts from various research organizations and industrial organizations for expert lectures on emerging technologies. This provides our faculty an opportunity to interact with them and develop association with them in different research areas.

Challenging issues:

- Attracting students towards research.
- Modification of syllabus on par with current trends of research.
- Getting acquainted with latest trends in technology
- Lack of awareness of international standards

The Practice:

Research committee actively involves in promoting research activities among the faculty and students in the college.

It sets the target for achievement in the action plan presented and submitted to the planning and evaluation committee meeting every year.

The attainment of the target is reviewed at the end of the academic year. The college provides support to the faculty to complete their Ph D. Motivates the faculty for doing major and minor projects through UGC, DST and other funding agencies.

Evidence of Success:

Many faculty members have successfully completed their doctoral degrees from various universities and also published papers in reputed journals. Some faculty published their articles in magazines and books. Seminars are organized for the faculty and the students to create awareness on research and preparation of project proposals to various funding agencies. The efforts made by the members of the research centre, the institution received the funded projects from various agencies.

Best Practice 2

Title of the Practice - Upgrading knowledge and inculcating social responsibility

The College wishes to focus on the overall personality development of the students and staff along with the academic excellence. Social responsibility and skill development should be inculcated for empowerment of rural people and bringing them to meet social changes. Extension activities are made to promote Community linkage, social Responsibility, interaction with the people and problem solving skills. The college is actively engaged right through the year in individual contribution to society in conducting awareness programmes on several issues of social relevance like blood donation, donation of funds and computer literacy to rural people.

Objectives:

- To make young minds ignited for innovation
- To deliver engineering solutions for societal cause
- To provide social dimension to the educational system of the college and inculcate social responsibility and commitment in students.
- To develop team spirit and leadership qualities of the students and broaden their social outlook that will help them work for the welfare of the community.
- To expose students to industry culture and practices.
- To provide hands-on training to students in contemporary industry tools and techniques.

The Context:

In Contemporary society, the students are highly ignorant about the problems of the society where they live. Therefore, it is realized that the students must be sensitized about the society and extension activities are made mandatory for them. India is a country of villages with varying population and incredibly with lowest percentage of literacy.

The main challenge lies in the fact that we are dealing with rural population which is in a way voiceless and faceless because of their illiteracy. It makes them identify their strengths, weaknesses and be aware of social problems. It also creates awareness of the Government welfare schemes.

The Practice:

The target groups in the villages face several problems regarding access to education, health facility, drinking water supply, power supply and transport.

- Donation of funds and facilities to rural people
- Blood Donation Camp
- Remedial classes for school students
- Vote for nation
- Computer awareness camps to rural people
- Prepare a clear mapping of developing skill development program

Evidence of Success:

- Students realized the challenges faced by the school drop outs in society.
- They have also realized the value and importance of education for their upliftment which results in reduced dropouts from schools and colleges.
- The students develop the quality of integrity through the extension activity.
- The students volunteer to act as scribes for the visually challenged and physically challenged candidates in all the college and competitive exams.
- Student participation in various socio-cultural activities has greatly increased.
- Training programmes have been arranged to improve the skills of rural women for getting employment. Awareness programmes are conducted for the marginalized women for their empowerment.