



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE
Name of the head of the Institution		Dr. M. Jagapathi Raju
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		08816223332
Mobile no.		9848381818
Registered Email		principalsrkrec@gmail.com
Alternate Email		principal@srkrec.ac.in
Address		Chinaamiram
City/Town		Bhimavaram
State/UT		Andhra Pradesh
Pincode		534204

2. Institutional Status					
Autonomous Status (Provide date of Conformant of Autonomous Status)		06-Jun-2016			
Type of Institution		Co-education			
Location		Rural			
Financial Status		private			
Name of the IQAC co-ordinator/Director		G. Mahesh			
Phone no/Alternate Phone no.		08816222748			
Mobile no.		9493671967			
Registered Email		principalsrkrec@gmail.com			
Alternate Email		iqac@srkrec.ac.in			
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)		http://www.srkrec.edu.in/files/mandates/AQAR_Report_2018_19.pdf			
4. Whether Academic Calendar prepared during the year		Yes			
if yes,whether it is uploaded in the institutional website: Weblink :		http://srkrec.edu.in/files/academic_calendar_2019_2020.jpg			
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.60	2016	19-Feb-2016	31-Dec-2021
6. Date of Establishment of IQAC			02-Feb-2010		
7. Internal Quality Assurance System					
Quality initiatives by IQAC during the year for promoting quality culture					
Item /Title of the quality initiative by IQAC	Date & Duration		Number of participants/ beneficiaries		

National Conference- Productivity, Quality, Reliability, Optimization and Computational Modeling (NCPQRCM-2019) by AICTE Sponsored.	18-Dec-2019 2	38
Workshop on Internet of Things	28-Nov-2019 2	55
Workshop on Artificial Intelligence and Machine Learning.	07-Sep-2019 2	86
Workshop- Manufacturing and Fabrication of Hybrid Vehicles.	23-Aug-2019 2	63
Faculty Development Program- Digital Image Processing for Medical Images by AICTE sponsored	05-Aug-2019 13	54
Workshop on Opportunities of INDO-EUROPEAN Collaboration and its benefits for Academia, the Resource person is Prof. Rajnish Kaur Calay, Head of Research Group, Institute for Building Energy and Materials Technology, UiT Norway	20-Nov-2019 1	41
One week FDP on Emerging Challenges in Grid Integrated Renewable Energy Systems.	21-Oct-2019 5	37
Motivational Speak by Entrepreneur Kakarlapudi Raj Sekhar, Managing Director, SME & Strategic Advisor in Cyber Security, Vijayawada.	09-Jul-2019 1	51
Faculty Development Program-Research Methodology.	08-Jul-2019 5	55
Guest lecture is arranged on NBA (OBE) by Dr. G.Ratnakar, Principal, Sri Vasavi Engineering College under AICTE Sponsored Mardarshan Scheme.	15-Feb-2020 1	59
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8. Provide the list of Special Status conferred by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
S.R.K.R. Engineering College	Margdarshan Scheme (Share mentor Institutions)	AICTE	2019 1095	2000000
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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	4
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

12. Significant contributions made by IQAC during the current year(maximum five bullets)
1. Achieved NIRF Rank in 251 to 300 band 2. Achieved ARIIA Rank in 6 to 24th Band 3. NBA peer team visit completed 4. Conducted Margdarshan Scheme activities 5. To bring all the activities to online platform 6. Top Engineering College of Eminence in INDIA by Competition Success Review 2019 7. Outstanding contributor to Leadership development by brain feed Higher Education Awards 2019. 8. ICONIC Engineering College in AP for the year 2019 by TIMES CYBER MEDIA.

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year
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Plan of Action	Achivements/Outcomes
Academic Audit	Conducted department wise academic audit
NBA accreditation under Tier II	NBA peer team visit completed
Participation in ARIIA Ranking	Achieved Rank in 6 to 24th Band
Participation in NIRF	Achieved NIRF Rank in 251 to 300 band
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14. Whether AQAR was placed before statutory body ?	Yes				
<table border="1"> <tr> <td>Name of Statutory Body</td> <td>Meeting Date</td> </tr> <tr> <td>Governing Body</td> <td>02-Apr-2021</td> </tr> </table>		Name of Statutory Body	Meeting Date	Governing Body	02-Apr-2021
Name of Statutory Body	Meeting Date				
Governing Body	02-Apr-2021				
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes				
Date of Visit	28-Feb-2020				
16. Whether institutional data submitted to AISHE:	Yes				
Year of Submission	2020				
Date of Submission	29-Jan-2020				
17. Does the Institution have Management Information System ?	Yes				
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>Yes, the Institute has a well designed Management Information System (MIS). All the major institutional activities are implemented through MIS.</p> <ul style="list-style-type: none"> • Student Information System: It stores every student information like student contact information, parent contact information, personal data, results, attendance reports etc. They are maintained in timely manner. • Library Management System: It manages all the library information of students and staff. • Examination Portal: Examination, post examination and supplementary processes such as Time table generation, student list generation, payment for examination fee, hall tickets generation, all internal and end semester examination information, entry of marks, result declaration, generation of grade cards etc. are done through MIS system • Administration and Accounts Automation System: Administration and accounts related information of students and staff is automated. 				

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	UG-IT	B.Tech. R16-IV-Year-Information Technology	11/05/2019
BTech	UG-MECH	B.Tech. R16-IV-Year-Mechanical Engineering	11/05/2019
BTech	UG-CE	B.Tech. R17-III-Year-Civil Engineering	11/05/2019
BTech	UG-CSE	B.Tech. R17-III-Year-Computer Science and Engineering	11/05/2019
BTech	UG-ECE	B.Tech. R17-III-Year-Electronics and Communications Engineering	11/05/2019
BTech	UG-CE	B.Tech. R16-IV-Year-Civil Engineering	11/05/2019
BTech	UG-CSE	B.Tech. R16-IV-Year-Computer Science and Engineering	11/05/2019
BTech	UG-ECE	B.Tech. R16-IV-Year-Electronics and Communications Engineering	11/05/2019
BTech	UG-EEE	B.Tech. R16-IV-Year-Electrical and Electronics Engineering	11/05/2019

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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BTech	B.Tech. R16-I V-Year-I-Sem-Civil Engineering	11/05/2019	Water Resource Engineering-I(B16 CE 4101)	11/05/2019
BTech	B.Tech. R16-I V-Year-Ii-Sem-Electrical and Electronics Engineering	11/05/2019	Power System Operation & Control(B16EE4201)	11/05/2019
BTech	B.Tech. R17-I	11/05/2019	Structural	11/05/2019

	II-Year-I-Sem-Civil Engineering		Analysis -II(B17 CE 3101)	
BTech	B.Tech. R17-II-Year-II-Sem-Electrical and Electronics Engineering	11/05/2019	Power Electronics(B17EE3202)	11/05/2019
BTech	B.Tech. R19-I-Year-I-Sem-Civil Engineering	04/09/2019	Engineering Exploration Project(B19 CE 1102)	04/09/2019
BTech	B.Tech. R19-I-Year-II-Sem-Civil Engineering	04/09/2019	Computer Aided Engineering Drawing(B19 CE 1201)	04/09/2019
Mtech	M.Tech. R19-I-Year-I-Sem-Structural Engineering	04/09/2019	Structural Dynamics(M19ST1102)	04/09/2019
Mtech	M.Tech. R19-I-Year-I-Sem-Computer Science and Technology	04/09/2019	Advanced Data Structures Lab(M19CST1113)	04/09/2019
Mtech	M.Tech. R19-I-Year-II-Sem-Communication Systems	04/09/2019	Image and Video Processing(M19CS1202)	04/09/2019
Mtech	M.Tech. R19-I-Year-II-Sem-Information Technology	04/09/2019	Full Stack Technologies(M19IT1202)	04/09/2019
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
Mtech	M.Tech. R19-I-Year-Information Technology	04/09/2019
Mtech	M.Tech. R19-I-Year-CAD CAM	04/09/2019
BTech	B.Tech. R16-IV-Year-Computer Science and Engineering Engineering	11/05/2019
BTech	B.Tech. R16-IV-Year-Electronics and Communications Engineering	11/05/2019
BTech	B.Tech. R16-IV-Year-Information Technology	11/05/2019

BTech	B.Tech. R17-III-Year- Electrical and Electronics Engineering	11/05/2019
BTech	B.Tech. R17-III-Year- Information Technology	11/05/2019
BTech	B.Tech. R17-III-Year- Mechanical Engineering	11/05/2019
BTech	B.Tech. R19-I-Year- Computer Science and Engineering	04/09/2019
Mtech	M.Tech. R19-I-Year- Structural Engineering	04/09/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	Information Technology	08/08/2016
BTech	Mechanical Engineering	08/08/2016
BTech	Civil Engineering	08/08/2016
BTech	Computer Science and Engineering	08/08/2016
BTech	Electronics and Communications Engineering	08/08/2016
BTech	Electrical and Electronics Engineering	08/08/2016
Mtech	Structural Engineering	08/08/2016
Mtech	Computer Science and Technology	08/08/2016
Mtech	Communication Systems	08/08/2016
Mtech	Power Systems and Automation	08/08/2016
Mtech	Information Technology	08/08/2016
Mtech	CAD CAM	08/08/2016

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Accreditation and Outcome based Learning	03/06/2019	1
An Introduction to Programming through C	03/06/2019	14
Basics of PLC (BATCH-1)	17/02/2020	37
Basics of PLC (BATCH-2)	24/02/2020	42
Artificial Intelligence	03/06/2019	12

: Search Methods for Problem Solving		
Business Analytics Text Mining Modeling Using Python	03/06/2019	2
C Programming and Assembly Language	03/06/2019	22
Dassault systems Training for CATIA V6	25/07/2019	320
Programming, Data Structures and Algorithms Using Python	03/06/2019	429
Programming In Java	03/06/2019	175
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	Civil Engineering	55
BTech	Computer Science and Engineering	271
BTech	Electronics and Communications Engineering	2
BTech	Electrical and Electronics Engineering	49
BTech	Information Technology	9
BTech	Mechanical Engineering	32
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
<p>The Institute is constantly in touch with all its stakeholders and is taking inputs from them in order to improve the quality of education. The survey is conducted by circulating the questionnaire prepared by the departments among the stakeholders. The survey helps the institute in identifying the strengths and weaknesses of the program. The summarized results of the survey are discussed in the meetings of Board of studies. Based on the survey report, the curriculum and program structure are revised to make the students compete with the present completion world. New courses are introduced to impart core</p>

competency skills which are very essential to fulfill the dream of the Honorable Prime minister and Nation. Based on the feedback from stakeholders, the courses related to employability i.e., advanced technologies and electives are introduced. The advanced technologies and electives are related to their field of study which enables the student to prove themselves in the global competition and job environment with the knowledge gained in the above courses. The professional electives are introduced to help the students to learn the cutting technologies in their field and the open elective is to gain multidisciplinary skills. To improve the teaching-learning process, online student feedbacks are collecting for the teaching performance of faculty on each course. The collected feedback will be sent to the Head of the departments (HODs). The HoDs may counsel the faculty based on the performance of teaching and also ask them to attend the FDPs/Orientation programs. Further, the institution is collecting student feedback on infrastructure and facilities. The collected feedback is analyzed and suggestions are considered to improve our standards on facilities and services. To conclude, the feedback obtained is constructive in the form of designing a curriculum, enhancing the efficiency of the teaching-learning process, which makes a conducive environment for the overall development of the institute.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
Mtech	Power Systems and Automation	24	5	5
Mtech	Communication Systems	24	11	11
Mtech	Computer Science and Technology	36	8	8
BTech	Electrical and Electronics Engineering	240	226	226
BTech	Electronics and Communications Engineering	240	256	256
BTech	Computer Science and Engineering	300	321	321
BTech	Civil Engineering	240	229	229
BTech	Information Technology	180	191	191
BTech	Mechanical Engineering	300	269	269
Mtech	Structural Engineering	18	15	15

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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	5975	160	345	21	20

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
386	386	52	51	44	43

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Mentoring system is being implemented in the college to monitor the students with regard to their academic and professional well-being. Every student is assigned to a faculty member who continues to be the mentor for the student till the completion of his/her course. Mentors closely monitor their academic performance, attendance, conduct etc. Mentor will have a meeting with the students once in a month. Marks scored, attendance percentage with respect to every subject is analyzed and remarks are listed in the counselling document. Mentor identifies the shortcomings as well as the core competencies of the students and guides them accordingly. Parent Teacher meetings are conducted when it required.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
6135	386	1:16

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
386	386	Nil	41	59

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr K Brahma Raju	Professor	Technology Excellence Award, Indian Technology Congress Association, Bengaluru

2019	Dr. Indukuri Hemalatha	Associate Professor	Best researcher award, ESN Research group, Chennai
2019	Dr K Brahma Raju	Professor	National Council Member in IEI
2019	Dr.N.Uday Kumar	Professor	State Level Committee member in Institution of Engineers India
2020	Dr.M.Jagapathiraju	Principal	APSCHE-APEAMCET-2020 Committee Member
2020	Dr.B.V.D.A.Sekhar	Associate Professor	Vice-Chair in IEEE Education Society Vizag Bay Section
2020	V.Nagavalli	Assistant Professor	Member in IEEE Education Society Vizag Bay Section
2020	Dr.N.Uday Kumar	Professor	Secretary in IEEE Communications and Signal Processing Societies Joint Chapter at Vizag Bay Section
2020	K.Bala Sindhuri	Assistant Professor	Reviewer in IETE Journal of Research
2019	Dr.B V D S Sekhar	Associate Professor	Member in IEEE
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2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
Mtech	PG-IT	II/I	22/01/2021	19/03/2021
Mtech	PG-STR	I/I	04/03/2020	11/08/2020
BTech	UG-EEE	II/IV	25/09/2020	10/10/2020
BTech	UG-CE	I/IV	04/11/2019	05/12/2019
BTech	UG-MECH	II/III	07/12/2020	26/12/2020
BTech	UG-CSE	I/III	20/11/2019	24/02/2020
BTech	UG-IT	II/II	06/12/2020	26/12/2020
BTech	UG-EEE	I/II	19/11/2019	23/12/2019
BTech	UG-ECE	II/I	05/12/2020	19/01/2021
BTech	UG-CE	I/I	30/01/2020	24/02/2020

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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
Nil	12731	0

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

http://www.srkrec.edu.in/files/mandates/naac/Course_Outcomes.pdf

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
PG-PSA	Mtech	Power Systems and Automation	11	5	45.45
PG-CS	Mtech	Communication Systems	9	7	77.78
UG-MECH	BTech	Mechanical Engineering	335	329	98.21
UG-IT	BTech	Information Technology	157	155	98.73
UG-EEE	BTech	Electrical and Electronics Engineering	262	255	97.33
UG-ECE	BTech	Electronics and Communications Engineering	287	282	98.26
UG-CSE	BTech	Computer Science and Engineering	344	339	98.55
UG-CE	BTech	Civil Engineering	239	230	96.23
PG-STR	Mtech	Structural Engineering	5	2	40
PG-CST	Mtech	Computer Science and Technology	6	5	83.33

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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<http://www.srkrec.edu.in/files/mandates/naac/feedbacks/2019-20.pdf>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

Yes
Name of the teacher getting seed money
Dr Venu Reddy
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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
International	Dr. Y. Vidya Sagar	Post Doctoral Fellowship	29/11/2019	Shanghai Jiao Tong University, Shanghai, China
National	G. Harish Kumar Varma	PhD Fellowship	11/12/2019	NIT Goa
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3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Any Other (Specify)	3	EDII	0.2	0.16
Major Projects	1095	DBT	146.4	80.11
Major Projects	730	AICTE	9.67	7.73
Major Projects	730	AICTE	10.92	8.73
Major Projects	730	AICTE	6.63	6.63
Major Projects	1095	AICTE	20	10
Any Other (Specify)	2	AICTE	0.5	0.5
Any Other	7	AICTE	3.7	3.7

(Specify)				
Any Other (Specify)	7	AICTE	4.29	4.29
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

0.0363

3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Novus-2019, Innovation Competition- Ideation, Boot camp.	IIC (Institution Innovation Council)	17/08/2019
One Day Workshop on Entrepreneurship and Innovation as Career opportunity for first year students	IIC (Institution Innovation Council)	22/08/2019
2 days Workshop on Manufacturing and Fabrication of Hybrid Vehicles.	Mechanical Engineering	23/08/2019
Motivational Speak	IIC (Institution Innovation Council)	07/09/2019
Motivational Speak - My Story-Innovator's Life Crossroad	IIC (Institution Innovation Council)	14/09/2019
Workshop on Opportunities of INDO-EUROPEAN Collaboration and its benefits for Academia	SRKR Engineering College	20/11/2019
Mechanical 3rd year students developed All Terrain Vehicle	Mechanical Engineering	19/09/2019
One Week FDP on Research Methodology	Mechanical Engineering	08/07/2019
One day Workshop on Design Thinking by Stanford University-University Innovation Fellows (UIFs) program.	IIC (Institution Innovation Council)	20/07/2019
Launching of Toastmasters International Club Master Orator Championship-season 4 to improve students leadership skills and Public	IIC (Institution Innovation Council)	04/08/2019

Speaking

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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Institute Innovation Council Certificate	Sagi Ramakrishnam Raju Engineering College	Institute Innovation Council, Ministry of Education.	22/09/2020	Institution Recognition
NIRF Rank in 251-300 Band	Sagi Ramakrishnam Raju Engineering College	Ministry of Human Resource Development, Government of India	03/04/2019	Institution Recognition
Best Reasearch Paper the work tittle , Work Ability and Strength Characteristics of M 60 Grade Concrete by Partial Replacement of Cement With Tio2.	M.Suneel	International Conference on Sustainable Systems and structures	16/11/2019	Institution Recognition
Research Award	Dr I Hemalatha	ESN Research and Publications Awards	28/09/2019	Best Faculty RecognitionAward
Rally Car Design Challenge, Design of ATV Fabricated Vehicle.	N.Sudheer kumar varma and U.Rajendra prasad varma team with 35 students	HERO MOTOR CO RPORATION,POLARIS , MULTIX, etc in BIKNAER, Rajasthan	04/10/2019	Faculty and Students Recognition
Reviewer of RASYAN Journal of Chemistry	Dr. Bhagavathula Diwakar	RASYAN Journal of Chemistry	04/09/2019	Faculty Recognition
Reviewer of Orietal Journal of Chemistry	Dr. Bhagavathula Diwakar	Orietal Scientific Publishing Company	28/03/2019	Faculty Recognition
Reviewer of International Transactions of Electrical Energy Systems (SCIE)-Wiley	Ch.Durga Prasad	International Transactions of Electrical Energy Systems (SCIE)-Wiley	31/12/2019	Faculty Recognition
Reviewer of AinsShams Engineering	Ch.Durga Prasad	AinsShams Engineering Journal	31/12/2019	Faculty Recognition

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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
I-Hub , MSME - BI	KATTA YASWANTH KUMAR	AICTE- SAMRIDDHI	SC/ST Students Startup	VIRTUAL DRESSING: This mainly focuses on design, development of virtual dressing, the applications in cloth stores.	10/12/2019
I-Hub , MSME - BI	JANGA HEPSIBA	AICTE- SAMRIDDHI	SC/ST Students Startup	It develops REMOTE MONITORING ROVER in unmanned areas. i.e. controlling robot from a remote place and stream video back to us.	11/12/2019
I-Hub , MSME - BI	KAVILLIKATTA GEETHIKA	AICTE- SAMRIDDHI	SC/ST Students Startup	It develops SMART GLASS FOR VISUAL IMPATRED	15/12/2019
I-Hub , MSME - BI	YEDLA MANISHA	AICTE- SAMRIDDHI	SC/ST Students Startup	It develops IOT BASED SMART WATER MANAGEMENT SYSTEM which provides services to rural drinking water maintenance.	16/12/2019
I-Hub , MSME - BI	KANIGANTI POOJA	AICTE- SAMRIDDHI	SC/ST Students Startup	It develops EYE VISION KEYBOARD which is eye tracking	17/12/2020

				Human Computer Interaction (HCI) that will help the physically challenged to lead an independent life with the help of their eye movement.	
I-Hub , MSME - BI	YENEPALLI SUDHEER KUMAR	AICTE- SAMRIDDI	SC/ST Students Startup	It develops FARMY which is a mobile plant Doctor for farmers.	19/12/2019
I-Hub , MSME - BI	KODAMANCHILI SUBHASH	AICTE- SAMRIDDI	SC/ST Students Startup	It develops INTELLIGENT DOOR BELL which is intelligent and intimates the houseowner with a video in smartphone through alaram and sms alerts	23/12/2019
I-Hub , MSME - BI	DHANA CHANDU DASI	AICTE- SAMRIDDI	SC/ST Students Startup	It develops INTERACTIVE DISPLAY, a virtual display on flat surface which act as touch screen and can be operated with finger or UV pen.	26/12/2019
I-Hub , MSME - BI	TUNGA RAJESH	AICTE- SAMRIDDI	SC/ST Students Startup	It develops KNOWLEDGE BASED REAL TIME MONITORING SYSTEM FOR	27/12/2019

[View File](#)**3.4 – Research Publications and Awards****3.4.1 – Ph. Ds awarded during the year**

Name of the Department	Number of PhD's Awarded
Mechanical Engineering	6
Computer Science and Engineering	2
Basic Science and Humanities	1

3.4.2 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
National	Civil Engineering	3	0
International	Civil Engineering	12	0.24
International	Computer Science and Engineering	17	0
International	Electronics and Communications Engineering	22	0.04
International	Electrical and Electronics Engineering	13	0.1
International	Information Technology	10	0
International	Mechanical Engineering	3	1.65
International	Basic Science and Humanities	33	0.03

[View File](#)**3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year**

Department	Number of Publication
Information Technology	4
Electrical and Electronics Engineering	18
Electronics and Communications Engineering	3
Computer Science and Engineering	10
Civil Engineering	11

[View File](#)**3.4.4 – Patents published/awarded during the year**

Patent Details	Patent status	Patent Number	Date of Award
Parasitic Meander Strip Based Conductive Fabric	Published	202041016056A	05/06/2020

Antenna for Complete Commercial Wideband Applications.

[View File](#)

3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Engine parameter optimization of palm oil biodiesel as alternate fuel in CI engine	Kumar, A.N., Kishore, P.S., Raju, K.B., Kasi anantham, N., Bragad eshwaran, A.	Environmental Science and Pollution Research	2019	1	S.R.K.R. Engineering College	1
A Three-phase Nine-level Fault Tolerant Asymmetrical Inverter	Maddugari, S.K., Borghate, V.B., Karasani, R.R., Sabyasachi, S., Suryawanshi, H.M.	Arabian Journal for Science and Engineering	2019	2	S.R.K.R. Engineering College	2
Microstructure and hardness characterization behavior of Al-Mg-TiB ₂ in-situ composite	Ramki, A., Brahma Raju, K., Venkatasubbaiah, K., Suresh, C., Jagadish, K.E.	International Journal of Innovative Technology and Exploring Engineering	2019	1	S.R.K.R. Engineering College	1
Integrated management of bineru and thurpu kalava sub-watersheds using geospatial technologies and hydrological modeling	Prasanna, K.L., Mani, K., Gurusai, P.V.S., Manindra, K.J.N., Chaitanya Varma, M.J., Rambabu, T.,	International Journal of Recent Technology and Engineering	2019	1	S.R.K.R. Engineering College	1

	Raghuram, P., Raju, P.A.R.K.					
Power management and control of multi-input multi-output renewable energy system using anfis controller	Kiran Kumar, K., Sai Sandeep, P., Kiran Kumar, K.	International Journal of Recent Technology and Engineering	2019	1	S.R.K.R. Engineering College	1
Municipal solid waste management in india with special reference to bhimavaram town in West Godavari District, Andhra Pradesh, India	Ganesh, K.M., Subrahmanyam Raju, A., Subba Rao, R.	International Journal of Recent Technology and Engineering	2019	1	S.R.K.R. Engineering College	1
A comparison of fuzzy game matrix solutions using defuzzification methods with a new method	Prasanna, D.V.L., Subba Rao, R., Murty, A.V.S.N., Ramana, G.V.	International Journal of Recent Technology and Engineering	2019	1	S.R.K.R. Engineering College	1
Circular ring loaded flower shaped antenna for triple band applications	Mohan Reddy, S.S., Manjusha, A., Kumari, K.A., Madhav, B.T.P., Nadh, B.P.	International Journal of Engineering and Advanced Technology	2019	1	S.R.K.R. Engineering College	1
Wireless	Sridevi,		2019	1	S.R.K.R.	1

sensor data mining for e-commerce applications	T., Mallik arjuna Rao, P., Ramaraju, P.V.	Indonesian Journal of Electrical Engineering and Computer Science			Engineering College	
A novel approach for selective feature mechanism for two-phase intrusion detection system	Narendra Kumar, B., Sivarama Bhadri Raju, M.S.V., Vardhan, B.V.	Indonesian Journal of Electrical Engineering and Computer Science	2019	1	S.R.K.R. Engineering College	1
View File						

3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Hybrid Control Technique-Based Three-Phase Cascaded Multilevel Inverter Topology	Sabyasachi S., Borghate V.B., Karasani R.R., Maddugari S.K., Suryawanshi H.M.	IEEE Access	2019	15	16	S.R.K.R. Engineering College
Knowledge based real time monitoring system for aquaculture Using IoT	Raju K.R.S.R., Varma G.H.K.	Proceedings - 7th IEEE International Advanced Computing Conference , IACC 2017	2019	15	21	S.R.K.R. Engineering College
The Integration of CAD/CAM and Rapid Prototyping in Product Development: A Review	Matta A.K., Ranga Raju D., Suman K.N.S.	Materials Today: Proceedings	2019	15	20	S.R.K.R. Engineering College
Trident	Madhav	Internat	2019	15	15	S.R.K.R.

shaped ultra wideband antenna analysis based on substrate permittivity	B.T.P., Mohan Reddy S.S., Sanjay B., Ujwala D.	ional Journal of Applied Engineering Research				Engineering College
Characterization and modeling of process parameters on tensile strength of short and randomly oriented Borassus F labellifer (Asian Palmyra) fiber reinforced composite	Balakrishna A., Rao D.N., Rakesh A.S.	Composites Part B: Engineering	2019	15	19	S.R.K.R. Engineering College
Application of grey-taguchi method for optimization of dry sliding wear properties of aluminum MMCs	Siriyala R., Alluru G.K., Penmetsa R.M.R., Duraivelvam M.	Frontiers of Mechanical Engineering	2019	15	20	S.R.K.R. Engineering College
Optimization of cutting conditions for surface roughness in CNC end milling	Raju K.V.M.K., Janardhana G.R., Kumar P.N., Rao V.D.P.	International Journal of Precision Engineering and Manufacturing	2019	15	36	S.R.K.R. Engineering College
Evolving ant direction differential evolution for OPF	Vaisakh K., Srinivas L.R.	Engineering Applications of Artificial Intelligence	2019	15	54	S.R.K.R. Engineering College

with non-smooth cost functions						
Evolving ant colony optimization based unit commitment	Vaisakh K., Srinivas L.R.	Applied Soft Computing Journal	2019	15	38	S.R.K.R. Engineering College
Genetic evolving ant direction HDE for OPF with non-smooth cost functions and statistical analysis	Vaisakh K., Srinivas L.R.	Expert Systems with Applications	2019	15	38	S.R.K.R. Engineering College
View File						

3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	29	722	40	12
Presented papers	28	6	Nill	Nill
Resource persons	Nill	1	Nill	Nill
View File				

3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Civil Engineering	Income from GT Lab	Individuals, Contractors, Local Government Agencies	1546677
Civil Engineering	Income from SM.Lab	Individuals, Contractors, Local Government Agencies	211200
Civil Engineering	Income from TE Lab	Individuals, Contractors, Local Government Agencies	19000
Civil Engineering	Income from Surveying Lab	Individuals, Contractors, Local	18000

		Government Agencies	
Civil Engineering	Income from Wet Center	Individuals, Contractors, Local Government Agencies	48429
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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
No Data Entered/Not Applicable !!!				
No file uploaded.				

3.6 – Extension Activities

3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Plantation - Plantation of Saplings	SRKREC NSS Unit	40	123
Awareness program on plastic waste free INDIA	SRKREC NSS Unit	15	154
RASHTRIYA EKTA DIWAS	SRKREC NSS Unit	9	26
Constitution Day Celebrations	SRKREC NSS Unit	5	25
Blood donation camp	SRKREC NSS Unit	8	89
National Girl Child day	SRKREC NSS Unit	12	144
A talk to create awareness on "Corona virus"	SRKREC NSS Unit	9	34
Vegetables distribution during Corona lockdown	SRKREC NSS Unit Alumni association	8	13
Groceries dispurse during Corona lockdown	SRKREC NSS Unit EEE Dept.	7	17
International Yoga Day	SRKREC NSS Unit	8	318
View File			

3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Rally Car Design Challenge	Three Awards are Achieved: 1.Dronacharya Award for Best Faculty, 2.Won 1st in CAE Endurance 3. Special Award for only Lady Driver in the Entire Event	HERO MOTOR CORPORATION,POLARIS , MULTIX, etc in BIKNAER,Rajastan	35
e-BAZA 2020 Motor Sports	Innovatation award of 40000/- Cash Prize and First place in National Level	e-BAZA 2020 Motor Sports	22
K L University Empirical Society of Innovative Engineers associates with All Terion Vehicle Champions	Innovatation award of 10000/- Cash Prize and Fourth place in National Level	K L University Empirical Society of Innovative Engineers associates with All Terion Vehicle Champions	36
Master Oriator Championship	National Master Orator Championship Competition in Hyderabad	Master Orator Championship	1

[View File](#)

3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Gender Issue	Women Empowerment Cell, SRKREC	Program on women Entrepreneurship	14	47
Gender Issue	SRKREC NSS Unit	National Girl Child day	12	144
Gender Issue	Women Empowerment Cell, SRKREC	DISA, Students organized a rally protesting the DISA incident	10	50
Gender Issue	Women Empowerment Cell, SRKREC	Program on women Entrepreneurship	14	47
Extension Activity	UBA, SRKREC	Program on Plastic	8	318

[View File](#)

3.7 – Collaborations

3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Dissecting Autism Trajectories in Longitudinal Electronic Health Records	Dr. RNV Jagan Mohan	DST	365
Miniaturized electrochemical devices for the automated ampliflex detection of cancer biomarkers-Indo-Korea International Project	Dr. Venu Reddy	DST	120

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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship	Industry-Institute Interaction	DRDO, Bangalore, Contact:080 2522 5121	23/12/2019	31/03/2020	1
Internship	Industry-Institute Interaction	Bharat Electronics Ltd, Delhi. Contact:0987 11 09084	18/05/2020	18/06/2020	1
Internship	Industry-Institute Interaction	Heavy Water Plant, Manuguru, Contact:08746-225629	09/01/2020	22/01/2020	1
Internship	Industry-Institute Interaction	ONGC, Rajahmundry, Contact:0883 2431570	12/01/2020	18/01/2020	2
Internship	Industry-Institute Interaction	AP TRANSCO, Dhavaleswaram, Contact:0883 241 7473	01/05/2020	30/05/2020	1
Internship	Industry-Institute Interaction	ECIL, Hyderabad, Contact:040-271822	01/05/2020	31/05/2020	1

		02			
Internship	Industry-Institute Interaction	VTPS, Ibrahimpatnam, Contact:0866 288 2203	15/05/2020	30/05/2020	1
Internship	Industry-Institute Interaction	Visakhapatnam Steel Plant, Visakhapatnam, Contact:08912 518426	18/05/2020	01/06/2020	1
Internship	Industry-Institute Interaction	Nagarjuna Sagar Project, Contact:0833397 3771	17/01/2020	27/01/2020	1
Internship	Industry-Institute Interaction	HAL-Overhaul Division, Bengaluru, Contact:08022 322226	05/05/2019	05/06/2019	4

[View File](#)

3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
North American University, USA	02/11/2019	For the development of academic cooperation in international education	2
Tvameva Social Impact And Development Foundation (TSIDF)	22/07/2019	To take forward the activities of Unnat Bharat Abhiyan Scheme in encouraging village level enterprises	2
Indian Institute of Technology Tirupati (IITT)	02/08/2019	Educational and scientific cooperation in the fields of Water and Wastewater Treatment, Waste Management and Remediation Technologies.	4
SD Motor Speeds	20/09/2019	Skill development and internship activities	6

B.V RAJU COLLEGE (BYRC), (DEPARTMENT OF MATHEMATICS AND HUMANITIES)	04/02/2020	To Promote and persue high quality research in the frontier areas of sciences like atmospheric sciences, Physical Sciences, life sciences and social sciences with a view to deliver products and services of social relevance.	5
BlackBuck Engineers	12/06/2020	To establish centre for emerging Technologies: Artificila Intelligence, Machine Learning, Data science, Internet of Things.	2
Talent Spirit Pvt.Ltd	08/06/2020	For setting of the TalentSpirit centre of Excellence	2
Madanapalle Institute of Technology and Science, Indo-Euro Synchronization and Steinbeis Institute for Sustainable Resource Usage Energy Management and 12 other Colleges.	17/09/2019	To establish a center of excellence for Innovation Technology Management for Indo-German Research Presence	25
Andhra Pradesh State Skill Development Corporation (APSSDC) and European Centre for Mechatronics APS GMBH	07/02/2019	To skill the engineering graduates in Mechatronics and Industrial Robotics	39
Gc German Center for Engineering and Management Studies, Germany Steinbeis Institute for sustainable resource usage and Energy Management	10/08/2019	To establish a center of excellence for Innovation Technology Management for Indo-German Research Presence	10
View File			

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES**4.1 – Physical Facilities**

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
1040	799.31

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Video Centre	Existing
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Newly Added
Seminar Halls	Existing
Laboratories	Newly Added
Class rooms	Existing
Campus Area	Existing
No file uploaded.	

4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Bees ERP Technologies	Fully	2018	2010

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	50617	14496765	1243	611930	51860	15108695
Reference Books	4862	1386291	116	59827	4978	1446118
e-Books	Nill	Nill	1	321302	1	321302
Journals	102	4218699	Nill	226644	102	4445343
e-Journals	Nill	Nill	9	1807682	9	1807682
Digital Database	1	90000	Nill	Nill	1	90000
CD & Video	2835	Nill	Nill	Nill	2835	Nill

Others(s pecify)	47196	Nil	1238	Nil	48434	Nil
View File						

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Mr. N. Pavan Kumar	Lecture on JAM Session	Lecture Capturing System	16/10/2019
Mr. N. Pavan Kumar	Lecture on Group discussion	Lecture Capturing System	19/02/2020
View File			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	1891	921	614	600	191	54	87	614	38
Added	402	248	546	25	120	1	4	546	4
Total	2293	1169	1160	625	311	55	91	1160	42

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

1160 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Lecture Capturing System	https://drive.google.com/file/d/13vIdXjYFIFwJBwIPFT9lVNJ3nICJVeEu/view?usp=sharing
Lecture Capturing System	https://drive.google.com/file/d/1Astgy7wVXiHztO_PlvNVrmnyRBIq9A-P/view?usp=sharing
Lecture Capturing System	https://drive.google.com/file/d/174518gCD5n5hv5gUllmakTiPqb-IpRzy/view?usp=sharing

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities

460

238.1

650

338.07

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website)

The SRKREC is having construction and maintenance section which is headed by the college engineer and accompanying with skilled technicians. This section takes responsibility to maintenance the infrastructural facilities which include plumbing works, electrical, masonry and sewage works. The construction and maintenance section receives maintenance requirements from the departments and other sections in the campus through proper channel (under the directions of the head of the departments and head of the sections). The engineer is taking the responsibility to provide the maintenance requirements to the requested departments and other sections in the campus by internal operating procedures. Internal operating procedure: ? Any problem that persists in a department/section is communicated to the head of the departments/sections via letter/e-mail. ? The head of the departments/sections assigns a skilled person/technician to focus the problem. ? The skilled person/technician resolves the problem on field if there is no additional material is required. ? In case any additional material is needed, it is received from the maintenance section via an indent. ? If the material is not available in the campus, the permission is to be obtained from the head of the Institution. Infrastructural Maintenance: The maintenance of buildings, furniture and electrical facilities are comes under the Infrastructural maintenance. ? The Maintenance of the pipe lines of water, fittings of sanitary and minor masonry works are carried out by the internal operating procedure. ? The construction and maintenance section maintains the services including fabrication of cabinets, desks, counter tops and the installation of doors and windows. ? The log book is used to record the condition / status of electrical equipments such as Generator, UPS, and Batteries. The suppliers/service providers are contacted in case of any major fault. ? The traditional electrical maintenance works like lighting, fans and motors in the campus are carried out by the internal operating procedure. ? Any major maintenance or replacement works related to infrastructure are executed by the external peoples on contract basis. Academic Facilities Maintenance: ? Every department maintains the faculty in charge who will periodically check the condition of class room/laboratory amenities like benches, chairs, black boards, fans, lights and LCD's. The in charge resolves the problem by the internal operating procedure. ? The equipments, computers and software's in the laboratories are maintained by laboratory in charges. The suppliers/service providers are contacted in case of any faults under the direction of the heads of the departments. If there is no additional material is required from outside, the permission is to be obtained from the head of the Institution. Supporting Facilities Maintenance: ? In order to provide a congenial learning environment in the campus, the adequate man power is employed to maintain cleanliness of the college. The class rooms, staff rooms, seminar halls and Laboratories, etc are cleaned and maintained regularly. Wash rooms and rest rooms are well maintained. ? The campus is maintained greenery under the presence of full time gardeners. ? The college security maintenance is under surveillance of Cameras.

http://www.srkrec.edu.in/files/mandates/naac/maintenance_policy_2.pdf

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees

Financial Support from institution	Origanti Bharat Scholarship	2	50000
Financial Support from Other Sources			
a) National	e- Pass, Pragathi, NSP Saksham	5023	357060000
b) International	Nil	Nil	Nil
View File			

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
GETS (Global English Testing Service for Higher Education)	18/06/2019	83	QAI , UK
Yoga practice	12/06/2019	99	SRKREC Art of Living International Centre, Bangalore
View File			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Competitive examinations and Career Counselling/Placements/Higher education	502	1487	21	419
View File					

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
1	1	3

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of	Number of	Number of	Name of	Number of	Number of

organizations visited	students participated	students placed	organizations visited	students participated	students placed
Infosys (SE Role)	857	120	Cognizant	128	6
View File					

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2020	1	B.Tech	Civil Engineering	JNTUK, Kakinada	M. Tech (structural Engg)
2020	1	B.Tech	Civil Engineering	A.U. Visha kapatnam	M. Tech (Geotechnical Engg)
2020	1	B.Tech	Civil Engineering	NITAP	M. Tech (Geotechnical Engg)
2020	1	B.Tech	Mechanical Engineering	NIT, Rourkela	M.Tech
2020	1	B.Tech	Electronics and Communications Engineering	University of Ottawa	Master of System Science, Fall 2021.
2020	1	B.Tech	Electronics and Communications Engineering	IIM Amritsar	MBA, Roll: MBA/06/201
2020	1	B.Tech	Computer Science and Engineering	A U COLLEGE OF ENGG. VISAKH APATNAM	COMPUTER SCIENCE AND TECHNOLOGY
2020	1	B.Tech	Computer Science and Engineering	INDIAN INSTITUTE OF SCIENCE (IISc) BANGALORE	COMPUTER SCIENCE AND ENGINEERING
2020	1	B.Tech	Computer Science and Engineering	Ontario Tech University	Master of Information Technology Security program
2020	1	B.Tech	Information Technology	IITM, Chennai	M Tech
View File					

5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	6
GRE	3
Any Other	12
View File	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Tennikoit (Double) (Staff Women)	Institution level	8
Long jump (Students men)	Institution level	36
Javalin throw (Students men)	Institution level	26
Foot ball (5-A side)	Institution level	35
Shuttle batminton (Doubles) (Students men)	Institution level	32
Volley ball (Students men)	Institution level	70
SRKR Memorial Cricket Cup (Principal cup) (Students men)	Institution level	90
Chess (Staff men)	Institution level	12
Chess (Student Women)	Institution level	21
Chess (Staff Women)	Institution level	11
View File		

5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Gold medal	National	1	Nil	18B91A0543	R . M. S. S. Surya
2019	Silver medal	National	1	Nil	18B91A0543	R . M. S. S. Surya
2019	Bronze	National	1	Nil	18B91A0543	R . M. S. S. Surya
2019	Silver	National	1	Nil	18B91A0543	R . M. S. S. Surya
View File						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of

the institution (maximum 500 words)

The college maximizes the participation of students in the committees. The students are active members in committees like Board of Studies, Internal Quality Assurance Cell, Student affairs committee, Institute Innovation Council, Sports committee, Ant-ragging committee, Anti-Sexual Harassment Committee etc. Apart from these committees, the students are involved in various professional bodies like ISTE, CSI, ITE etc., where the students organize and participate in technical events. The student inputs are considering in formulating the Vision and Mission of the College and departments as well as designing the PEOs of Department. The student inputs are taken in designing the curriculum through the curriculum based feedback. Further, the students are performed volunteer service in the NSS activities. The students are also performing the class representative (CR) roles to represent their issues and concerns related to academic and administrative matters and network between the student's vs faculty for a healthy and happy environment in the campus. The students are also involved in awareness programs about Ragging Act.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

SRKREC Alumni Association was registered with Register of Societies, Hyderabad on 27/6/2017 with Register No 1037 of 2007. Later, after bifurcation of the state, the Association was re-registered with Registration of Societies, Bhimavaram, on 07/4/2016. The Association is conducting Alumni meets and activities like Soft Skills Training Programme, Food Coupons to Poor Students and the Scholarships to merit students etc.

5.4.2 – No. of registered Alumni:

89

5.4.3 – Alumni contribution during the year (in Rupees) :

372134

5.4.4 – Meetings/activities organized by Alumni Association :

1. 1981 - 85 Batch Electronics Communication Engineering students reunion. 2. 1990 - 94 Batch Electronics Communication Engineering students reunion. 3. 1990 - 94 Batch Civil Engineering students reunion. 4. Providing food coupons to poor and deserving students 5. Conducting silver jubilee meets every year. 6. Sponsoring for departmental technical activities. 7. Conducting activities related to societal needs

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

The SRKREC has a well formulated decentralization system to conduct various activities of administration and academics. The college encourages participatory management at different levels via governing academic and administrative activities in uniform way as much as possible. In order to effective administering in the college, various statutory and non statutory committees are established. The statutory committees such as Governing Body, Academic Council, Board of Studies and Finance Committee are constituted with the members from management, head of the institution, faculty, university

nominees, industry members and academicians from various Institutions. The Non statutory committees such as Planning and Evaluation committee, Admission Committee, Academic and Administrative Audit Committee, Internal Quality Assurance Cell, College Academic committee, Student affairs committee, Disciplinary Committee, Ant-ragging Committee, Grievance Redressal Committee, Anti-Sexual Harassment Committee, Women Grievance Redressal Committee, Examination Committee, Results Committee, Malpractice Committee, Research and Development Committee, Faculty Review Committee, Library Committee, Sports Committee, Entrepreneurship Development Committee, SC/ST Grievance Cell and NSS Committee e.t.c., are formulated with the members from Principal, Deans, HODs, Faculty, Staff and Students. These committees are working to fulfill the vision and mission of the institute. The roles and responsibilities are described for each committee.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Admission of Students	The admissions will be done through two categories such as category-A and category-B. The 70 of the seats are filled through category-A (convener quota). The rest of the 30 seats are filled through category-B. For UG admissions, the students have to qualify the AP-EAMCET examination that will be conducted by the A.P. State Govt. and follows the counseling procedure. The lateral entry admissions for second year of UG will be done through E-CET examination. For PG admissions, the students have to qualify GATE and PG-CET examinations.
Industry Interaction / Collaboration	The institute maintains effective cordial relations with reputed IT software companies and core engineering companies. The institute organizes guest talks/workshops by industry experts in software and core-engineering domains. The institute is committed to improve skills of the students by providing the internship opportunities and industrial visits. Further, the institute is providing various placement opportunities and relations with alumni as well as provides entrepreneurship skills to the students in setting up various Start-Ups.
Human Resource Management	The institute takes utmost care to manage the human resources very effectively and efficiently. The recruitment procedures, service rules and promotion policies are made

transparent and employees are benefitted with CL, EL, ML and EPF. Employee's salary will be credited in the bank account directly. Pay slips are issued to the employees every month. The superannuation benefits are also provided promptly. The responsibilities and rights of the staff are respected and protected. Best efforts are made to retain all well qualified and competent teachers and the college ensures that its faculty, whether permanent or ad-hoc, gets its due rights. The institute encourages the staff to attend Orientation programs, FDPs, workshops/conferences/seminars conducted by premium institutes to upgrade and update the knowledge. The institute provides a very congenial environment for efficient working.

Library, ICT and Physical Infrastructure / Instrumentation

Institutional library, GCC and digital learning centre are as main resource centers for collection of Books, Journals, e-books, e-journals and NPTEL videos. We have ICT infrastructure facilities like Desktops, printers, internet facility, software, exclusive servers, UPS for Labs and LCD projectors for E-Class rooms.

Research and Development

The institute has taken a commitment to have 100 Ph.D. faculties by 2030. Towards reaching this goal, the faculties are encouraged to register for Part-time Ph.D. The college also supports publication of research articles in journals and conferences by giving cash awards to faculty members. Each department is established one research centre to carry out an academic research. The centre for research and development also shares information with the concerned departments and research centers regarding funding opportunities at the national level and international level for research projects.

Examination and Evaluation

Examination cell comprises two sections viz. (i) Examination section and (ii) Confidential section. Examination section conducts the theory examinations and confidential Section procures answer scripts and question papers, conducts evaluation and announces results. The chief superintendent along with staff and

faculty invigilators conducts examinations. Subject moderator validates question papers. The external valuator valuate the answer books at the spot. Coordinator conducts evaluation. Scrutiny is done parallel with evaluation. Semester end lab examinations are conducted by the internal and external examiners. Results sheets are compiled for each student showing the grades for the semester. The Supplementary examinations are conducted for each semester. Our examination section was IT integrated with I-campus automation software.

Teaching and Learning

Our college stands on the excellent teaching and learning practices. Without eliminating the traditional chalk and talk methods, the institution employs several innovative teaching and learning methods to cater to the needs of today's modern student. The teaching methods employed include: 1. Printed materials like Note books, lab manuals, handouts etc. 2. Teaching with ICT Facilities 3. NPTEL Materials 5. Different sets of quality assignments 6. Feedback on faculty by students 7. Encouragement to attend workshops, technical symposiums etc. 8. Internships 9. Digital Library 10. Tutorials 11. Remedial Classes 12. Guest Lectures

Curriculum Development

SRKR Engineering College always strives to see that the curriculum meets the expectations of the stakeholders. The SRKR Engineering College is also adopted the outcome based education system in all of the programmes. To develop or modify the curriculum, the process is initiated by formulating a Board of Studies. Boards of Studies meetings are conducted frequently to frame/revise the Syllabus. The inputs from all the stakeholders are taken into consideration to improve the standard of the curriculum. The SRKR Engineering College conscientiously develops action plans for effective implementation of the curriculum.

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Planning and Development	Library section is automated with ERP software i.e., BeeS Campus Soft

	Automation. The Information (regular notices to the students) is disseminated with SMS System software i.e, Bulk SMS software from Entro Labs IT Solutions PVT. LTD.
Administration	<p>1. The Govt. Funds expenditure is regularly uploaded in the PFMS portal.</p> <p>2. The circulars and notices are uploaded in the institution website and also disseminated to departments through e-mail from the principal office.</p> <p>3. The Salary of Teaching and Non-teaching staff are directly credited into their accounts.</p>
Finance and Accounts	The financial transactions are carried out by online.
Student Admission and Support	<p>1. The state Govt. of AP is allocated the students by online mode through EAMCET.</p> <p>2. The ERP management system is used to maintain the student's database.</p> <p>3. The curriculum, syllabus and Academic calendar are uploaded in the college website.</p> <p>4. The daily automatic SMS alerts are sent to the parents whenever they are absent to class.</p> <p>5. SMS alerts are sent to the parents to disseminate the important information.</p>
Examination	<p>The confidential section in the examination cell is consisting of I-campus software for performing various activities. I-Campus examination module perform the following functions:</p> <p>1. Generation of OMR number and sheet recognition (with hand written digits)</p> <p>2. IAS recognition (auto images cropping and extraction) I-Campus online portal</p> <p>3. Student registrations</p> <p>4. Exam notifications with SMS, e-mail alerts</p> <p>5. Result analysis is branch wise and subject wise</p> <p>6. Exam registrations using payment gateway (Through Bill desk)</p> <p>7. Revaluation and supplementary registrations using payment gateway</p> <p>8. Generation of hall tickets, D-forms, nominal rolls</p> <p>9. Student dashboard</p> <p>10. Generation of grade sheets</p> <p>11. Student password resetting</p> <p>12. Student fee structure</p> <p>13. Generation of consolidated grade sheets</p> <p>Generation of PC and CMM</p>

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/	Name of the	Amount of support
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		workshop attended for which financial support provided	professional body for which membership fee is provided	
2019	P.Venkata prasanna	Membership Fee for Journal	NA	4000
2019	S.Ramalingesw ararao	Membership Fee for Journal	NA	4000
2019	A.Balakrishna	Membership Fee for Journal	NA	4000
2019	V. Durga prasad	Membership Fee for Journal	NA	8000
2019	G.H.Tammi raju	Membership Fee for Journal	NA	4000
2019	B.S.Diwakar	Membership Fee for Journal	NA	4000
2019	K.V.Murali krishnam raju	Membership Fee for Journal	NA	4000
2019	Dr.C.N.B.Rao	Membership Fee for Journal	NA	4000
2019	M.Indra reddy	Membership Fee for Journal	NA	8000
2019	V.V.Muralikri shnam raju	Membership Fee for Journal	NA	4000
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6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	RESEARCH METHODOLOGY	NA	08/07/2019	12/07/2019	47	2
2019	Hands on workshop on Internet of Things(SDP)	NA	10/07/2019	15/07/2019	45	2
2019	TWO WEEK FDP on Digital Image Processing for Medical Images	NA	05/08/2019	17/08/2019	54	3

2019	One Week FDP on ASIC/FPGA Design. Chief Guest, K.Ramesh Naidu, Co-Founder, Apply Volt, Hyderabad.	NA	24/06/2019	29/06/2019	57	2
2020	A Three Day Workshop on Integration of AI IOT with Cloud Based Web Frameworks at IT Seminar Hall. Chief Guest: Sri Praveen Malla Founder, Robocoupler Pvt. Ltd.	NA	08/02/2020	10/02/2020	43	3
2020	Guest lecture is arranged on NBA (OBE) by Dr. G.Ratnakar, Principal, Sri Vasavi Engineering College at 9.30 A.M in I-Block the programme is AICTE Sponsored Mardarshan Scheme.	NA	15/02/2020	15/02/2020	59	2
View File						

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development	Number of teachers who attended	From Date	To date	Duration
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programme				
Advances In Civil Engineering	1	21/05/2020	23/05/2020	3
A five-day faculty development program on BLOCKCHAIN TECHNOLOGY5	1	18/05/2020	22/05/2020	5
Workshop, Robotic Process Automation	4	23/11/2019	24/11/2019	2
Advanced Vibration Analysis and Its Application in Industry	1	08/07/2019	12/07/2019	5
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
41	41	18	18

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
1. Gratuity Benefit, 2. EPF, 3. Group Insurance, 4. 50 percent concession for Health Guidelines of IQAC and submission of AQAR for Autonomous Colleges Page 9 Insurance, 5. Maternity Leave for 90 days 6. Paid study leaves for Part-time Ph.D Work,	1. Gratuity Benefit, 2. EPF, 3. Group Insurance, 4. 50 percent concession for Health Insurance, 5. Maternity Leave for 90 days	1. Medical insurance, 2. Gold and Silver medal for best outgoing students 3. Merit Scholarships 4. Free Medical facility

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

The SRKREC is having accounts department to record the daily financial transactions. It also prepares all financial statements and submits to the statutory bodies when they requested. The SRKREC is conducting both Internal and External audits. The head of the institution constitutes internal audit committee with three members. The committee checks Cashbook, Bank accounts, Ledgers, Bills, Vouchers, and statement of cash position and cash flow physically and conducts sample check on the heads of various accounts, balance dates, and postings. The external Audit is conducted by Mr. K Rama Chandra Raju, Chartered Accountant, Hyderabad. The reports of conducted annual audit are submitted to the management/governing body. The Finance Committee ratifies these audit reports.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Individuals	7100100	To build up new infrastructure to provide academic and physical facilities
View File		

6.4.3 – Total corpus fund generated

161613768

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Reputed Academicians from other Institute	Yes	Departmental Audit Committee
Administrative	Yes	Chartered Accountant	Yes	Internal Financial Audit Committee

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

<p>1. Induction programs - Explain the college activities to the parents 2. Regular meetings with parents to improve the student attendance and Students performance 3. Annual meetings- Identify the problems of students and informed to the parents</p>
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6.5.3 – Development programmes for support staff (at least three)

1. CNC Training 1 2. CNC Training 2 3. CNC Training 3

6.5.4 – Post Accreditation initiative(s) (mention at least three)

<p>1. Incubation centre and entrepreneur activities are increased 2. Enhanced the faculty development programs and activities. 3. Enhanced add-on, value added and skill development courses. 4. Many class rooms of the campus are made ICT enabled</p>
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6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	No
d)NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Guest lecture is	15/02/2020	15/12/2020	15/12/2020	59

	arranged on NBA (OBE) by Dr. G.Ratnakar, Principal, Sri Vasavi Engineering College under AICTE Sponsored Mardarshan Scheme.				
2019	Faculty Development Program- Research Methodology.	08/07/2019	08/07/2019	12/07/2019	55
2019	Motivational Speak by Entrepreneur Kakarlapudi Raj Sekhar, Managing Director, SME Strategic Advisor in Cyber Security, Vijayawada.	09/07/2019	09/07/2019	09/07/2019	51
2019	One week FDP on Emerging Challenges in Grid Integrated Renewable Energy Systems.	21/10/2019	21/10/2019	25/10/2019	37
2019	Workshop on Opportuni- ties of INDO- EUROPEAN Col- laboration and its benefits for Academia, the Resource person is Prof. Rajnish Kaur Calay, Head of Research Group, Institute	20/11/2019	20/11/2019	20/11/2019	41

	for Building Energy and Materials Technology, UiT Norway's Arctic University, N				
2019	Faculty Development Program- Digital Image Processing for Medical Images by AICTE sponsored	05/08/2019	05/08/2019	17/08/2019	54
View File					

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
DISA - Students organized a rally protesting the DISA incident	02/12/2019	02/12/2019	42	8
National Girl Child Day	24/01/2020	24/01/2020	144	12
International Women's day	08/03/2020	08/03/2020	77	8
Gym for Girl students and women Faculty	01/06/2019	31/05/2020	96	Nil
Program on women entrepreneurship	17/10/2019	17/10/2019	52	9
Program on Save Girl-Child	18/11/2019	21/11/2019	106	84

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
Power requirement met by renewable energy sources: 2,21,935 Total power requirement for college: 7,60548 Percentage of power requirement of the College met by the renewable energy sources: 29.18 Renewable energy source: Solar

(Note: Calculations are based on the 2019 calendar year)

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	17
Provision for lift	Yes	17
Ramp/Rails	Yes	17
Braille Software/facilities	No	Nil
Rest Rooms	Yes	17
Scribes for examination	Yes	Nil
Special skill development for differently abled students	No	Nil
Any other similar facility	No	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	04/12/2019	1	Consumers awareness camp	Necessity towards Energy Saving	5
2019	1	1	21/09/2019	1	Unnat Bharat Abhiyan Program on Plastic	Prohibited single use plastics	56
2019	1	1	02/10/2019	1	Awareness Program on plastic waste free India	Eradication of Plastic	152
2019	1	1	29/10/2019	1	Plantation and saplings	Globalwarming	33
2019	1	1	11/09/2019	1	Dengue fever medicine	Stop deadly dengue	15

					supplied to surrounding village people		
2019	1	1	14/10/2019	1	SRKREC Student projects demonstrated to Govt. High school Students	Technology awareness to school students	62
2019	1	1	29/06/2019	1	Development of Water transport facility in coastal region	Water transport	74
2019	1	1	15/09/2019	1	Construction of regulator on upputeru canal	Resolve the problems in upputeru canal	32
View File							

7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Service Manual	12/06/2019	Service Manual for staff is distributed to entire faculty and Non-teaching staff in the college. The service manual is also disseminated in the college website.
Student Hand Book	12/06/2019	Student Hand Book is distributed to all the students

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Vanamahotsavam	11/08/2019	11/08/2019	55
Independence Day Celebrations	15/08/2019	15/08/2019	1054
Teachers Day	05/09/2019	05/09/2019	30
Vinayaka Chavithi Celebrations	11/09/2019	11/09/2019	753

Engineer's Day	15/09/2019	15/09/2019	50
Dussehra Celebrations	01/10/2019	05/10/2019	76
Mahatma Gandhi Jayanthi	02/10/2019	02/10/2019	120
AP Formation Day	01/11/2019	01/11/2019	254
Karthika Maasa Puja	11/11/2019	11/11/2019	892
Constitution Day	26/11/2019	26/11/2019	30
View File			

7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. The capacity of the Ayurvedic Garden has been enhanced to serve as a nursery to propagate medicinal plants. 2. High albedo coatings provided on roof tops to reduce the heat ingress into the top floors of the buildings for improving indoor occupant comfort. 3. College has taken up monthly testing of water quality on campus. As part of Unnat Bharat Abhiyan activities, college also collects water samples from public water supplies in the five adopted villages and apprises the local Rural Water Supply Office of any abnormalities reported. 4. An ambitious waste visualization project was carried out by the I B.Tech. students to collect plastic waste and construct a Spider that illustrates the magnitude of the problem. Public sensitization campaigns were carried out by inviting public representatives to inaugurate and sensitise the public. 5. A Solar Electricity to EV charging station with plug in hybrid capability has been installed on an experimental basis under the Mission Innovation Sponsored project. SHREE (Sustainable Habitat and Renewable Energy Engineering) Centre inaugurated to promote research on this subject. An international Consortium project titled FREEDOM has been submitted to the EU Horizon 2020 programme. Project was qualified but could not get funding due to the pandemic induced funding cuts.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. Performance Based Appraisal System (PBAS) 2. Technical Model Development through Excellence centres and Hobby clubs Hobby clubs

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

http://www.srkrec.edu.in/files/mandates/naac/best_practices/2019-20.pdf

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

SRKREC has an educational philosophy that establishes a link between theory and practice. The curriculum of the institute is continuously being innovated upon and refreshed to reflect the latest developments in technology and trends within industry. Pure academics are supplemented by persistent industry engagement through the Practice. The vision of SRKREC includes the development of Research across all the departments of the institution keep in view of this SRKREC develops a Centre for Research and Development (CRD). This division cares the research activities of all the departments. Centre for Research and Development (CRD) is constituted to coordinate research across all academic departments and their thematic research centres of excellence of SRKR

Engineering College. CRD has been instrumental in getting SRKR Engineering College recognised as a Scientific and Industrial Research Organisation (SIRO) by the Department of Scientific and Industrial Research of the Ministry of Science and Technology, Government of India. All the core engineering and Engineering Mathematics departments have research centres which have been recognised by Andhra University, Visakhapatnam and Jawaharlal Nehru Technological University Kakinada (JNTUK). CRD facilitates all stages of research from identification of research topics to funding to the monetisation of IP generated by the research efforts. It also encourages cross-disciplinary research and student mobility to other institutions for research and higher learning. Objectives of CRD: • CRD shall assist all the academic departments in moulding their curriculum to reflect the smooth transition from Science, Applied Science (Engineering), Technology, Design Development, Prototyping to Product launch of various engineering solutions to real problems. • CRD shall assist all the teaching staff in career advancement by guiding the faculty to pursue their Ph.D. degrees, publish their research work, protect their IP and develop their own research programme. CRD shall further assist them to get funding to conduct research and dissemination activities. • CRD shall endeavour to earn returns for the investments made by the college into research by protecting IP and commercialising it either by licensing or incubating start-up companies around the solutions developed by the students and staff of the college. • CRD shall continuously maintain the accreditation and standards expected for the various research facilities available in the Departmental Laboratories and the Centres of Excellence. The CRD comprises of a committee of departmental coordinators who assist their departmental colleagues in all aspects related to Research and Development. The CRD Coordinators have access to central facilities such as meeting rooms, seminar rooms and Plagiarism Check software that can be used for supporting the staff in their departments or Research Centers for conducting research, publications and dissemination activities. The cyclic process of research and development is well defined, and the General Administration department has also identified dedicated staff that track expenditure and assist in transparent management of RD funds and preparing statutory compliance reports. Fourteen Research Centers established in the institution to develop the research needs of the college.

Provide the weblink of the institution

<http://www.srkrec.edu.in/files/mandates/naac/id/2019-20.pdf>

8.Future Plans of Actions for Next Academic Year

1. Participation in National institutional ranking framework (NIRF) ranking
2. Participation in Atal Ranking of Institutions on Innovation Achievements (ARIIA)
3. Submission of Pending AQARs
4. Develop the e -content facilities for conducting online classes during pandemic situation
5. Focus on acquiring more research grants