

Part – A

I. Details of the Institution

1.1 Name of the Institution

Sri Siddhartha Institute of Technology

1.2 Address Line 1

Kunigal Road

Address Line 2

Maralur

City/Town

Tumkur

State

Karnataka

Pin Code

572105

Institution e-mail address

principal@ ssit.edu.in

Contact Nos.

0816-2200314

Name of the Head of the Institution:

Dr. M K Veeraiah

Tel. No. with STD Code:

0816-2200999

Mobile:

9844127487

Name of the IQAC Co-ordinator:

Dr. G S Sheshadri

Mobile:

9880407292

IQAC e-mail address:

iqac@sahe.in

1.3 **NAAC Track ID** (For ex. MHCOGN 18879) KAUNGN11428

1.4 Website address:

www.ssit.edu.in

Web-link of the AQAR:

iqac@sahe.in

For ex. <http://www.ladykeanecollege.edu.in/AQAR201213.doc>

1.5 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	A	3.01	2015	5 Years 15/11/2020
2	2 nd Cycle				
3	3 rd Cycle				
4	4 th Cycle				

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

25.06.2015

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

2017-18

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

- i. AQAR _____ (DD/MM/YYYY)4
- ii. AQAR _____ (DD/MM/YYYY)
- iii. AQAR _____ (DD/MM/YYYY)
- iv. AQAR _____ (DD/MM/YYYY)

1.9 Institutional Status

University State ☐ Central ☐ Deemed ☒ Private ☐

Affiliated College Yes ☐ No ☒

Constituent College Yes ☒ No ☐

Autonomous college of UGC Yes ☐ No ☒

Regulatory Agency approved Institution Yes ☒ No ☐

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education ☒ Men ☐ Women ☐

Urban ☒ Rural ☐ Tribal ☐

Financial Status Grant-in-aid ☐ UGC 2(f) ☐ UGC 12B ☐

Grant-in-aid + Self Financing ☐ Totally Self-financing ☒

Sri Siddhartha Education Society

1.10 Type of Faculty/Programme

Arts ☐ Science ☐ Commerce ☐ Law ☐ PEI (Phys Edu) ☐

TEI (Edu) ☐ Engineering ☒ Health Science ☐ Management ☐

Others (Specify)

Nil

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

Sri Siddhartha Academy of
Higher Education

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

Autonomy by State/Central Govt. / University

**3 of the UGC Act, 1956 Vide MHRD GOI NO.F.9-
31/2006-U.3 (A) DTD.30.05.2008**

University with Potential for Excellence

UGC-CPE

DST Star Scheme

UGC-CE

UGC-Special Assistance Programme

DST-FIST

UGC-Innovative PG programmes

Any other (*Specify*)

UGC-COP Programmes

2. IQAC Composition and Activities

2.1 No. of Teachers

19

2.2 No. of Administrative / Technical staff

03

2.3 No. of students

02

2.4 No. of Management Representatives

01

2.5 No. of Alumni

01

2. 6 No. of any other stakeholder and

01

community representatives

2.7 No. of Employers/ Industrialists

01

2.8 No. of other External Experts

-

2.9 Total No. of members

28

2.10 No. of IQAC meetings held

02

2.11 No. of meetings with various stakeholders:

No.

2

Faculty

2

Non-Teaching Staff /Students

2

Alumni

2

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.

8

International

National

State

Institution Level

8

(ii) Themes

2.14 Significant Activities and contributions made by IQAC

- The Internal Quality Assurance Cell has been working on developing quality and key performance indicators for the institution.
- IQAC has conducted workshops, Conferences and Faculty Development Programs
- IQAC has observed “Environment Day” and “Yoga Day” apart from regular techno-medical campaign.
- Personality Development Programs for the students were conducted.

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
UG Program ➤ Revised Structure and scheme for second year has been proposed. ➤ Self-study component to be improved ➤ Question paper pattern to be revised for second year. ➤ English language course to be given Credit. ➤ Workshop to be conducted on Aptitude & Technical Training for pre-final and final year students. ➤ Orientation program for first year students to be conducted	UG Program ➤ Revised Structure and scheme for second year has been implemented. ➤ Self-study component has been improved ➤ Question paper pattern has been revised for second year. ➤ English language course has been given 1Credit. ➤ Workshop to has been conducted on Aptitude & Technical Training for pre-final and final year students in the following schedule: • 3-4, September 2017 • 4-5, November 2017 • 26-28, March 2018 ➤ Orientation program for first year students has been conducted during 11-13, August 2017.
M Tech. Program ➤ Change in structure and syllabus ➤ Introduction of laboratories ➤ Summer Semester (Crash) for failed students	M Tech. Program ➤ Change in structure and syllabus has been implemented. ➤ Introduced Laboratories ➤ Summer Semester (Crash) for failed students has been implemented.

* Attach the Academic Calendar of the year as Annexure.

2.15 Whether the AQAR was placed in statutory body Yes ☐ No ☐

Management ☐ Syndicate ☐ Any other body ☐

Provide the details of the action taken

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	08			
PG	08			
UG	09			
PG Diploma				
Advanced Diploma				
Diploma				
Certificate				
Others				
Total	25			
Interdisciplinary				
Innovative				

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

Pattern	Number of programmes
Semester	17
Trimester	
Annual	08

1.3 Feedback from stakeholders* Alumni ☒ Parents ☒ Employers ☒ Students ☒

(On all aspects)

Mode of feedback :

Online

☒

Manual

☒

Co-operating schools (for PEI)

☐

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

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

Revision of Scheme of Teaching and Examination has been incorporated for UG programs as per the guidelines of AICTE-New Delhi, for the academic year 2018-19. The College Curriculum Development Cell (CDC) cell is active and proposed Scheme of Teaching and Examination for reducing the credits from 200 to 170 credits, as per AICTE guidelines. One day workshop on **“Review of Curriculum”** was conducted on 28.4.2018 at SSIT-Tumakuru campus for all the staff members. Academic experts from IIT have reviewed our proposed New Scheme of Teaching and Examinations for Choice Based Credit System (CBCS) for UG programs and appreciated to incorporate the new syllabus as per AICTE guidelines. For PG programs, New Syllabus 2017-18 was approved and incorporated.

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

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
162	105	21	36	--Nil--

2.2 No. of permanent faculty with Ph.D.

45

Asst.	Associate	Professors	Others	Total
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2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Professors		Professors							
R	V	R	V	R	V	R	V	R	V
02	0	--Nil--	1	5	--	--Nil--	--	--Nil--	1

2.4 No. of Guest and Visiting faculty and Temporary faculty

2	--Nil--	--Nil--
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2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/	52	38	--
Presented papers	52	38	--
Resource Persons	02	03	--

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

- ✓ Self Study
- ✓ Case Studies
- ✓ Implant Training
- ✓ Outcome Based Education
- ✓ Choice based Credit Based System
- ✓ Bringing Lab to Class Rooms

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

241

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, Double Valuation, Summer semester, Photo copy, challenge valuation

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

65	157	08
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2.10 Average percentage of attendance of students

85

2.11 Course/Programme wise

Distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
BE	2433	723 (29.7)	801(32.9)	909 (37.4)	-	-
M.Tech.	52	36 (69.2)	14(27)	02 (3.8)	-	-

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

- The IQAC periodically assesses the feedback taken from the students, alumni, Parents, faculty and Staff.
- Suggest changes to Academic Section accordingly.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	08
UGC – Faculty Improvement Programme	NIL
HRD programmes	152
Orientation programmes	79
Faculty exchange programme	NIL
Staff training conducted by the university	40
Staff training conducted by other institutions	6
Summer / Winter schools, Workshops, etc.	155
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	37	--	--	--
Technical Staff	48	--	--	--

Criterion – III

3. Research, Consultancy and Extension

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

- Faculty members have been encouraged to pursue Ph.D. and financial assistance is provided for research publications in the peer reviewed journals.
- Enhancing institution research facilities such as-access to online journals of ASCE, ASME, IEEE
- Procurement of hardware and software which are useful for research
- Promotion to the PhD holders

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	1	2	2	1
Outlay in Rs. Lakhs	31.45 Lakhs	100.09 Lakhs	49.63 Lakhs	25.0 Lakhs

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	NIL	NIL	NIL	NIL
Outlay in Rs. Lakhs	NIL	NIL	NIL	NIL

3.4 Details on research publications

	International	National	Others
Peer Review Journals	58	48	NIL
Non-Peer Review Journals	NIL	30	NIL
e-Journals	NIL	NIL	NIL
Conference proceedings	27	188	NIL

3.5 Details on Impact factor of publications:

Range Average h-index Nos. in SCOPUS

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	02	KCTU	58.08 Lakhs	18.08 Lakhs
	03	KCTU	42.01 Lakhs	31.55 Lakhs
Minor Projects				
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College				

Students research projects (other than compulsory by the University)	01	KSCST	0.4 Lakhs	0.4 Lakhs
Any other(Specify)				
Total			100.49 Lakhs	50.03 Lakhs

3.7 No. of books published i) With ISBN No. Chapters in Edited Books

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SAP	NIL	CAS	NIL	DST-FIST	NIL
DPE				DBT Scheme/funds	NIL

3.9 For colleges	Autonomy	NIL	CPE	NIL	DBT Star Scheme	NIL
	INSPIRE	NIL	CE	NIL	Any Other (specify)	NIL

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution	Level	International	National	State	University	College
	Number	01	01			01
	Sponsoring agencies	SSIT	SSIT			SSIT

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

3.13 No. of collaborations International National Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs:

From Funding agency	100.49 Lakhs	Management of University/College	29 Lakhs
Total	129.49 Lakhs		

Type of Patent		Number
National	Applied	NIL

3.16 No. of patents received this year

	Granted	NIL
International	Applied	NIL
	Granted	NIL
Commercialised	Applied	NIL
	Granted	NIL

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
01	NIL	01	NIL	NIL	NIL	NIL

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

39

165

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

08

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

JRF

NIL

SRF

NIL

Project Fellows

NIL

Any other

NIL

3.21 No. of students Participated in NSS events:

University level

400

State level

NIL

National level

International level

NIL

NIL

3.22 No. of students participated in NCC events:

University level

15

State level

22

National level

International level

15

NIL

3.23 No. of Awards won in NSS:

University level

NIL

State level

NIL

National level

International level

NIL

NIL

3.24 No. of Awards won in NCC:

	University level	03	State level	NIL
National level	International level	03		NIL

3.25 No. of Extension activities organized

University forum	NIL	College forum	09	
NCC	02	NSS	28	Any other
				NIL

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

- Electrical and Electronics, Computer peripherals awareness programme at Rural Government High Schools
- Computer Education at Rural Government Higher Primary Schools
- Visit to the orphanage and old age homes
- Swachcha Bharat Abhiyaan in villages
- Using of LED lights
- Technology Barrier Reduction Programme for Govt. High School students of Tumkur District

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	50 acres			
Class rooms	60			
Laboratories	50			
Seminar Halls	12			
No. of important equipments purchased ($\geq$ 1-0 lakh) during the current year.	06	-		
Value of the equipment purchased during the year (Rs. in Lakhs)	52 Lakhs	12 Lakhs	College	64,00,000.00

Others	48 Lakhs	8 Lakh-	College	56,00,000.00
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4.2 Computerization of administration and library

- Student Information System
- Management Information System
- Tally-ERP software
- New Gen Lib Management Software
- Digital Library Software: D-SPACE

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	88923	2,15,20,383.00	96	20,605.00	89019	2,15,40,988.00
Reference Books	6621	20,47,370.00	10	2,600.00	6631	20,49,970.00
e-Books	126101	UGC/INFONET Membership 1,70,000.00	-	-	126101	UGC/INFONET Membership 1,70,000.00
Journals	211	6,84,339.00	5	18,000.00	216	7,02,339.00
e-Journals	6524	23,08,193.00	-	-	6524	23,08,193.00
Digital Database	3	4,09,820.00	-	-	3	4,09,820.00
CD & Video	46	49,725.00	-	-	46	49,725.00
Others (specify)						

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	950	20	60 Mbps	01	01	02	13	-
Added	-	-	-	-	-	-	-	-
Total	-	-	-	01	01	02	13	-

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

Wireless campus, Wi-Fi campus

4.6 Amount spent on maintenance in lakhs:

i) ICT

2 Lakhs

ii) Campus Infrastructure and facilities

240 Lakhs

iii) Equipments

20 Lakhs

iv) Others

15 Lakhs

Total:

277 Lakhs

Criterion – V, for the academic year(2017-18)

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Student support and monitoring system
- Orientation classes for the I year students
- T & P Cell organizes special lectures, workshops, related to soft skills, PDP, Preparing for the job market by learning employability skills.
- Students are provided with Handbook cum work planner.
- Student Internship is provided in collaboration with Industry.
- NSS/NCC activities.
- The departments/Institute frequently organizes various National/International Seminars/Conferences /Paper Presentations /Project Exhibitions where students can Showcase their talents and get opportunities to interact with Experts in their respective fields.

5.2 Efforts made by the institution for tracking the progression

- Student Counseling
- Feedback System
- Grievance Redressal
- Result Analysis and progress Reports
- Parent Teacher meeting twice in a year

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
2183	88	63	-----

(b) No. of students outside the state

182

(c) No. of international students

No	%
1020	45

Men

Women

No	%
1251	55

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
972	146	86	997	03	2204	995	164	89	1021	02	2271

Demand ratio :- 1: 2

Dropout % :- 2

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

- Students are advised, informed and brought awareness about competitive examinations and excellent coaching available in and around the city/Bangalore to attend during weekends and vacations.

No. of students beneficiaries

245

5.5 No. of students qualified in these examinations

NET	08	SLET	GA	10	CAT	25	03
IAS/IPS etc	02	State PSC	05	UPSC	03	Others	03

5.6 Details of student counseling and career guidance

- For every 15 students there is a faculty counselor and will be listening to their suggestions/grievances, discussed every fortnight.
- The T & P cell provided career guidance by organizing the seminars/workshops from eminent personalities from Academia and Industry.

No. of students benefitted

2271

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
21	561	146	90

5.8 Details of gender sensitization programmes

Students are made aware of gender sensitization during orientation program and Inauguration of I year classes.

Conducting awareness programmes twice in academic year.

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events

State/ University level	National level	International level
20	03	--

No. of students participated in cultural events

State/ University level	National level	International level
55	12	---

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports : State/ University level	National level	International level
05	03	---

Cultural: State/ University level	National level	International level
02	01	---

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	24	12.12 lakhs
Financial support from government	1600	4.30 crores
Financial support from other sources(TEQIP)	-----	-----
Number of students who received International/ National recognitions	06	3.5 lakhs

5.11 Student organized / initiatives

Fairs : State/ University level	National level	International level
03	01	--
Exhibition: State/ University level	National level	International level
02	01	---

5.12 No. of social initiatives undertaken by the students

04

5.13 Major grievances of students (if any) redressed:

- Exam related (Eligibility) and reduction of course registration fee.
- Water Problem , Cleanliness and maintenance of the hostel.

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision:

To carve technically competent, confident and socially responsible engineers.

Mission:

- To impart fundamental knowledge of science and technology.
- To create a conducive ambience for better learning and to bring out creativity among students.
- To instill managerial, entrepreneurial and soft skills.
- To evolve as trusted destination for quality technical education.
- To provide positive contribution to meet societal needs.
- To inculcate a spirit of enquiry, make learning perceptive and rational.

6.2 Does the Institution has a management Information System

Yes

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

6.3.1 Curriculum Development

Curriculum Development Cell has been formulated to review the structure and syllabus according to the requirement of the stakeholders and as per the AICTE guidelines.

6.3.2 Teaching and Learning

1. The institution is dedicated to facilitate effective teaching and learning for the student to think, analyze and to be creative.
2. The admissions of the students are strictly followed as per the rules and regulations of the Government as well as SSAHE.
3. The institution encourages the students to carry out project works, to undergo in-plant training, attending seminars and workshop in recent technologies.
4. Students are provided with the facilities of both central library and department library for referring to books from standard publications and also latest collection of journals. Also the institution is enabled with Wi-Fi connectivity
5. The academic progress of the students is continuously monitored through the conduction of the internal Assessment tests and assignments on regular intervals as per the academic calendar.
6. The students are given with proper guidance to participate in workshops, seminars and paper presentations by the counselors (20:1) and also the counselors communicate the performance of the students to their parents as well as to the Head of the Department and the Dean Academics.

6.3.3 Examination and Evaluation

1. Examination will be conducted once in a semester.
2. Each script will be evaluated by two examiners – i) Internal and ii) External
3. If the difference is more than 10 marks, the script will be evaluated by another examiner.
4. Every year immediately after even semester, summer course will be organized wherein students will appear for subjects failed or dropped in their regular semesters.

6.3.4 Research and Development

1. The College has recognized research Centre for CV, CSE, EEE, ECE, MECH, PHY, CHY and MAT.
2. College Encourages faculty to do research. As of now, 42 Faculty Members are having Ph.D qualification. and 121 Members are pursuing their Ph.D. in various universities.
3. The Management supports the professional development of the faculty, encourages them to undertake research work , motivate them to attend seminars, workshops, refresher courses as well as International & National Conferences by giving them necessary special leaves.

6.3.5 Library, ICT and physical infrastructure / instrumentation

1. Institution has got full fledged library with
 - i) An excess of more than 3000 online journals including IEEE.
 - ii) Around 90,000 volumes of books.
2. All the departments are having well equipped labs.
3. One class room in each department is furnished with LCD projectors, OHP, Audio and visual facilities for class rooms, Wi-Fi throughout the campus.

6.3.6 Human Resource Management

College follows the process of having sufficient human resource requirements-staff recruiting, monitoring and planning professional development programmes for the overall development of Faculty through training which takes place periodically.

6.3.7 Faculty and Staff recruitment

The institution recruits faculty members and administrative staff members based on the guidelines provided by the university.

6.3.8 Industry Interaction / Collaboration

The institution has MoUs with reputed industries and accordingly the faculty members get an opportunity to visit industries with the team of students.

Eminent persons from the industries will be invited to conduct workshops , seminars for staff and students which enhances the employability skills of the students.

6.3.9 Admission of Students

The admissions of the students are strictly followed as per rules and regulations based on the Govt. and SSAHE rules.

6.4 Welfare schemes for

Teaching	Yes
Non teaching	Yes
Students	Yes

6.5 Total corpus fund generated

6.6 Whether annual financial audit has been done

Yes

Y

No

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Y	BOS & BOE meetings will be conducted by inviting eminent persons from other Institutions and Industries	Y	i) An academic audit committee has been constituted by the Principal of the College to review the academic process of the all the programs ii) The audit committee members are nominated from the various departments of our college iii) The audit committee will conduct academic audit periodically with prior intimation to assess the academic process and submit the report to the Principal
Administrative	Y	By Chartered account appointed by the Society	Y	By Accounts officer of the Institute

6.8 Does the University/ Autonomous College declare results within 30 days?

For UG Programmes Yes ☒ No ☐

For PG Programmes Yes ☒ No ☐

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

1. The answer scripts are Bar Coded.
2. Each script undergoes Double Valuation, if the difference is more than 10 marks, then it goes for third valuation.. Over and above , there is a provision for the students to go for challenge valuation
3. Run the Summer Semester for the students who have failed/dropped the subjects during their regular semesters

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

Provision for revising the syllabus each year by 20 percent with the approval of BOS.

Elective subjects can be incorporated as per the industry requirements.

6.11 Activities and support from the Alumni Association

Alumni working within India and abroad are invited for guest lectures and also to have face-to-face meeting with the students to understand the global market demands and steps are taken to make students aware of the need to develop themselves.

6.12 Activities and support from the Parent – Teacher Association

Parent meeting will be called once in a semester.

Counselors will be in touch with the parents quite often to discuss the progress of the students.

6.13 Development programmes for support staff

Supporting staffs will be deputed to attend workshops both In-house and Outside to enhance their skills as on when required .

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

College hostels are equipped with

- i) Solar water heater systems in hostels
- ii) Rain water harvesting system
- iii) 65% of the campus is lush green
- iv) A fully functional Sewage treatment plant which treats the entire waste water and is being used to maintain greenery.
- v) The bi-products of the estate is used to produce manure using Vermin composed technique in house.

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.

- **G-Medic (Gangadharaiah Memorial Entrepreneur ship development & incubation centre)**
- **STEP (Science & Technology Entrepreneurs Park) Activities**
- **TechnoPreneur promotion programme (TEPP)**
- **Vocational Training Programmes.**
- **State level Project Exhibition Every Year**
- **IEEE student Chapter**
- **Solar based water pumping using BLDC motor**
- **Hybrid power generation system**
- **Solar powered auto irrigation with smart fencing system**
- **IOT based smart agricultural automation system**

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

To strengthen infrastructure facilities, laboratories are partially established to carry out the research activities.

1. **To start Internet of Things (IoT) laboratory in collaboration with intel associates.**
2. **To start partial discharge laboratory in high voltage laboratory**
3. **To start partial discharge measurement lab**
4. **To start organic Chemistry Research lab**

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

1. Siddhartha Community Radio – FM 90.8
2. Free Education to Top two meritorious students of each branch of Bachelor of Engineering (18) and Fellowships to M.Tech Students (42 Fellows Every year)
3. Special Coaching (10 days) to first year B.E students
4. Admissions for the wards of staff at subsidized fees
5. Bringing Labs to the class room
6. “Talents of Tumkur”- A cultural competition by students of SSIT, Tumkur.
7. Dr. H M Gangadharaiah memorial drawing competition for school children of Tumkur is being conducted every year in the month of December

7.4 Contribution to environmental awareness / protection

1. Green Audit

- Roof top rain water harvesting system – 1 lakhs liters
- Solar hot water system – Boys hostel – 20,000 liters capacity

Girls Hostel – 10,000 liters capacity

- LED lightening system - 50 points
- Sewage treatment plant – 60,000 liters per day
- Green area (Trees, Bushes, Forestry, Hedges) – 15 Acre

2. Non smoking campus

3. Work shops on “Awareness on Environmental Consciousness”

4. Swatch campus Andolan

5. Celebration of vanamahotsava by planting forest trees

6. Entire sewage treated water(STP) is used for plantation of about 15 acres

7. Campus green waste is converted into Biomanure by vermin compost method.

Innovations

1. Coconut tree climber

2. Design & fabrication of Eco-friendly areca nut collecting and bagging agri machine

3. Design & fabrication of punch cum splitter for tender coconut

4. Development of oil separator for Industrial Liquid Waste

5. Design and fabrication of Coconut leaves shredding machine

6. Design and fabrication of new generation filter ☒ for cyclone separator in rice mills.

List of Innovative projects for the year 2017-18

- Ice Stupa
- Studies On Reflection Cracking In Rigid Overlays
- Crash Detection Module
- Pc Control Using Android Over Internet
- Roborio: A Smart Robotic Assistance With Multifeatures Including Artificial Intelligence
- Raspberry Pi And Image Processing Based Electronic Voting Machine
- Solar Electric Tricycle
- Automated Grass and Seed Sowing Robot Using Bluetooth
- Patient Monitoring System Using Iot
- Green House Monitoring And Controlling System
- Productivity Improvement Of Plant Layout
- Design And Fabrication Of Automatic Window Glass Cleaning Machine
- Improvised Weed Removing Machine

8: Plans of Institution for next year.

- Establishment of service centre in all the departments
- Internship activity for students
- To organize International Conference, National/State Level Project Exhibition
- More number of FDPs and Conferences
- Skill Development training programmes.
- To establish incubation centres.
- Implementation of AICTE model curriculum structure for 1st year UG from 2018-19.
- Construction of auditorium and to provide more sports facilities