



# **SELF STUDY REPORT**

**FOR**

**1<sup>st</sup> CYCLE OF ACCREDITATION**

## **SAPTHAGIRI COLLEGE OF ENGINEERING**

SAPTHAGIRI COLLEGE OF ENGINEERING CHIKKASANDRA, HESARAGATTA  
ROAD  
560057  
[www.sapthagiri.edu.in](http://www.sapthagiri.edu.in)

Submitted To

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

**(Draft)**

# 1. EXECUTIVE SUMMARY

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## 1.1 INTRODUCTION

Sapthagiri College of Engineering (SCE) stands as a synonym for quality education in Bengaluru. The Institution was established by Sri Srinivasa Educational and Charitable Trust in 2001 by the great visionary, Late. Sri. T. Giryappa, for imparting quality Education to all the sections of the society.

The institution is affiliated to Visvesvaraya Technological University (VTU), Belagavi, approved by AICTE, New Delhi and recognized by Government of Karnataka. Sapthagiri College of Engineering is situated in the northern part of Bengaluru on a sprawling campus of 6.08 acres. The institution has an annual intake of 720 students for undergraduate programs in 7 disciplines and offer 2 postgraduate programs with an intake of 24 each. In addition, the institution has set up Research Centres in 7 departments to promote research activities in frontier areas and offers doctoral programs in Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering, Mechanical Engineering, Biotechnology, Chemistry & Physics.

The institution is ISO 9001:2015 & 14001:2015 certified and continues to adopt innovations in academics and administration to emerge as a benchmark in Engineering Education in line with the vision of the institution.

### **Vision**

To be a best institution imparting quality engineering education to deal with community needs through learning and performance.

### **Mission**

- To implement path breaking student centric education methods.
- To augment talent, nurture teamwork to transform to develop individual as responsible citizen.
- To educate the students and faculties about entrepreneurship to meet vibrant requirements of the society.
- Strengthen Industry-Institute Interaction for knowledge sharing.

## 1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

### **Institutional Strength**

1. Strategically well connected to Bengaluru with Industrial hub situated in its vicinity.
2. Proactive management with willing to provide infrastructure support system and human resource to provide a conducive environment for excellent teaching-learning ambience.
3. Qualified, experienced, committed and passionate faculty.
4. Consistently good student enrolment.
5. Consistently obtaining good results and secured 32 University ranks from VTU, since its inception
6. Effectively blended Teaching-Learning processes.

7. The campus with lush green & pollution free ambience.
8. Effective implementation of E-governance.

### **Institutional Weakness**

1. Improvement in funded projects and patents.
2. Consultancy and R &D culture to be enhanced.
3. Research efforts need to be strengthened.
4. Needs to improve placements in core branches.

### **Institutional Opportunity**

1. To become an autonomous institute enabling design of curriculum as per industry requirements.
2. Students may have more start-ups in the incubation facility.
3. Interaction through Industry-Academia will widen the opportunities for students' internships & faculty exchange.
4. Fulfilling the necessities of society through Applied Research, Innovations & Patent.
5. Developing Technology for Rural Community.

### **Institutional Challenge**

1. Long term sustainability without compromising standards.
2. Inculcation of research culture among students and faculty.
3. International students and faculty exchange programs with foreign universities.
4. To provide consultancy services to the industry and society.

## **1.3 CRITERIA WISE SUMMARY**

### **Curricular Aspects**

Sapthagiri College of Engineering is an affiliated Institution under Visvesvaraya Technological University, Belagavi, Karnataka. The Institution follows the syllabus and scheme prescribed by the University. The University has been regularly updating the syllabus every four years. The University has Board of Studies (BOS) for each Engineering Programs, which consists of senior faculty members, academicians from other institutions and industry experts to prepare draft syllabus and reviews after getting feedback from all stakeholders. However, due to rapid technological advances, there could be gaps that need to be addressed. In this direction, the institution has the practice of preparing its own curriculum in consultation with the stakeholders and curriculum delivery strategies are ICT enabled. Based on the feedback on syllabus from different stakeholders, Certificate Courses are being offered to cater to the requirements of the stakeholders and the job market.

College calendar of events is prepared as per the University calendar of events by including weekly working days, holidays, internal assessment test dates, practical exam dates, workshops schedule, technical seminars schedule, industrial visit dates, parent teachers meeting schedule, sports day, cultural day, graduation day and last working day of the semester. This is done through the preparation of the Strategic Perspective Plan (SPP) of the institution, which is an outcome of the integration of the Strategic Perspective Plan of all the departments and Cells / Clubs. The CIE is subtly integrated into the SPP and the same is effectively deployed and monitored by the IQAC.

Teachers of the Institution are also participating in design and development of curriculum, question paper setting, and evaluation process. All programs offered by the Institution follow the Choice Based Credit System (CBCS). Institution strongly believes in integrating cross cutting issues relevant to professional ethics, gender sensitization, human values and environmental sustainability with a view to ensure holistic development of the students. Students knowledge is enriched through experiential learning, field work, internship, project work etc. Feedback of the curriculum is collected from various stakeholders like students, teachers, employer and alumni of the institution. Further the feedback has been analyzed and action has been taken.

### **Teaching-learning and Evaluation**

The institution follows a transparent admission process as per the Rules and Regulations of the Government of Karnataka. The average enrolment is around 90% and the seat filled against seats reserved for various categories is around 80% against the sanctioned intake. The slow and advanced learners are identified based on learning abilities and accordingly special programs are arranged to enhance their performance.

The institution has dedicated, well qualified and experienced faculty with doctoral degree and many are pursuing for their doctoral research. The institution has a student-teacher ratio of 18:1 for effective teaching and mentoring. Each mentor has about 20 mentees for counseling the academic & stress related issues.

The academic calendar detailing the events for the entire academic year is prepared and accordingly the teaching-learning strategies are structured to facilitate the achievement of the intended learning outcomes. The student centric methods like experiential learning, participative learning and problem solving methods are employed for enhancing learning experiences with ICT for effective teaching learning. The Institution adopts a streamlined mechanism for continuous evaluation of the students through the Formative / CIE and Summative / SEE strategies. The assessment process is transparent and robust in terms of frequency, variety and mode. The student grievances at both University and Institutional level related to the evaluation are addressed in transparent, time-bound and efficient manner.

The course outcomes, program outcomes and program specific outcomes are prepared in each program and are communicated to teachers and students through website and other means. The attainment of outcomes is done using both direct and indirect assessment methods. The average pass percentage of final year students is more than 95% with University ranks and gold medals as the evidence of the excellence in performance. The student feedback mechanism facilitates to identify the strength and areas for continuous improvement in teaching learning process.

### **Research, Innovations and Extension**

The institution has established R&D cell to conduct all the research activities inculcating research culture

among students and faculty. The institution has set up seven research centers affiliated to VTU in various departments. Institution has made financial provisions to cater to the needs of research. The faculties are duly recognized and encouraged to participate in various workshops / conferences and to remain abreast of latest knowledge and technology. There are about 35 research scholars pursuing the doctoral program and faculty members are encouraged to publish research papers in reputed journals. The Institution has taken a proactive measure to implement the R&D policy and conduct activities such as, conferences, workshops, Faculty Development Programs on Intellectual Property Rights, Research Methodology and Entrepreneurship during the last five years. Faculties are given financial assistance and encouraged to present papers in conferences and to publish books. Department of Computer Science & Engineering and Information Science & Engineering collaboratively own Incubation Centre to nurture start-up initiatives amongst students. Students are also given financial assistance for research activities and innovative projects like Go-Kart, Multi-Robot system, Blind man smart stick which are of social relevance. In order to create research culture among students and faculty, the institution has MOUs with the industries which provide research extension activities. Institution has established Entrepreneurship Development Cell, through which students interact with successful entrepreneurs.

### **Infrastructure and Learning Resources**

The institution has state-of-the-art infrastructure with adequate facilities for effective teaching and learning. The infrastructure facilities are provided by abiding the standards and norms specified by regulatory authorities and the Government. The institution is strategically located in a sprawling campus with much emphasis given for go-green initiatives. The transport connectivity to the campus assures hassle free commuting facilities from all parts of the city.

There are 50 classrooms which are well ventilated, spacious and ICT enabled with the necessary tools like 47 numbers of LCD projectors, 4 smart interactive boards, Wi-Fi and other required ICT gadgets. The institution has well-setup laboratories, 775 computers with 100 Mbps internet lease line and other equipments. Department of Computer Science & Engineering and Information Science & Engineering collaboratively own Incubation Centre to nurture start-up initiatives amongst students. The campus is Wi-Fi enabled to facilitate better communication and information dissemination amongst all the stakeholders. In order to keep pace with ever emerging needs of IT, the institution has a practice of reviving and upgrading the IT infrastructure on a priority basis.

Institution has a well-equipped auditorium to support co-curricular, technical symposia, FDPs, guest-lecture and research colloquiums. In addition, an open air amphi-theatre with a seating capacity of 2500 for cultural extravaganza and sports events is provided.

The institution supports sports activities both indoor and outdoor provisions with good playground for holistic development of the student community, as a result of which the institution has secured 8th position in the University. The institution has a gymnasium and yoga centre to encourage health freaks.

The Library has about 30,000 volumes & 6,000 titles with automation software called e-Granthalaya. In addition, 1580 e-journals and 24,000 e-books subscribed through Visvesvaraya Technological University Consortium. The institution provides hostel facilities for both girls as well as boys with necessary amenities and academic ambience.

### **Student Support and Progression**

The institution has a very good student support and progression mechanism that includes scholarship benefits, career guidance and training by the cell “Stuti”. Institution has Alumni Association which engages Alumni for holistic development of every student. The Students’ Council in the institution gives an opportunity for the students to develop leadership abilities involving them in academic, co-curricular and extra-curricular activities through various committees and clubs which help in holistic development of the student community. The welfare measure include facilitating the sanction of scholarships to needy and deserving students from government and private agencies. Institution takes care of timely disbursal of the scholarships. The institution identifies needy and meritorious students every year to give away cash awards to encourage them.

The effective grievance redressal mechanism prevails in the institution to resolve the grievances of students. Ragging and Sexual harassment is dealt with zero tolerance. The institution has a well-defined student mentoring system. The main objective of mentoring is to help each student in taking right decisions for their academic and personal growth. A faculty is assigned about 20 students to be monitored and record their progress. Career guidance and training programs are conducted for students to help and explore various career options and sharpen their soft skills, language, communication and computing skills. The institution offers good placement assistance to get jobs in reputed companies and also to pursue higher studies in India and abroad. Alumni are invited to address students, to guide them on career options, provide industry insights and to impart knowledge on the current trends with latest technologies. Awareness programs on civil services are conducted to encourage students to prepare for civil service and other competitive examinations. The institution encourages and promotes setting up of various clubs, sports and cultural activities at the institution, University and National levels to impart necessary skills and provide an opportunity to exhibit the talent.

### **Governance, Leadership and Management**

Governance of the institution is highly enabling and empowering at all levels. All policies in the matter of planning human resources, recruitment, training, performance appraisal and financial management are carried out systematically considering the overall interest of the institution and stakeholders.

The institution has a well-defined administrative structure for effective governance and for building the organisational culture. Main body of the administrative structure is as follows.

1. Board of Management of Sri Srinivasa Educational & Charitable Trust
2. Governing Council
3. Principal
4. Vice-Principal
5. College Council

The institution functions with de-centralized administration that has complete transparency in decision making process. The Governing Council has delegated powers to the Principal to conduct academic institutional development, curricular and extra-curricular activities. The Principal in turn has delegated certain powers to HODs and office staff. The College Council, with Principal as its Chairman, meets periodically to discuss academic and administrative issues and to take appropriate decisions from time to time. The College Council has constituted thirty nine committees to decentralize the activities and empower the faculty for smooth

functioning of the institution and implement Strategic Perspective Plan (SPP) for quality assurance. Thus, all the stakeholders are involved in achieving the Vision and Mission of the institution. The institution is working towards paperless office through its e-governance and all sections of the college use modern software to carryout day to day activities smoothly and effectively.

Financial management of the institution is transparent and follows the established norms with respect to resource mobilization, allocation of budget and utilization. There will be regular internal as well as external audit of income and expenditure. Welfare of all the employees of SCE is taken care by providing many facilities like Group Insurance, Free Medical Checkups, PF, ESI etc. IQAC created in 2014, plays an important role in fostering quality culture in the organization, which is working effectively and continuously for improving the values of the organization.

### **Institutional Values and Best Practices**

Institution gives foremost importance to Human Values and Best Practices. It evaluates the various initiatives, in line with its vision which helps to produce graduates who are not only technically competent but also have human values embedded. The institution organizes a number of socially relevant activities like gender equity, safety, cleanliness drives etc. As a part of Green Initiatives, the institution has taken measures to setup a solar power plant, sewage water treatment plant and biogas plant in the campus. Solid, liquid and e-wastes are properly segregated at the collection point and disposed for recycling. Rain water harvesting pits are constructed for recharging ground water as well as bore wells in the campus. The campus is made plastic-free and efforts are made for paperless office work. Green, energy and environment audits are being carried out regularly by NABL certified company. In addition, the campus is made Divyangjan friendly by providing all the necessary facilities. Code of Conduct handbook for students and employees is revised periodically from time to time.

Institution celebrates national and international commemorative days, events and festivals to promote universal values. “Margadharshi” (Student Proctoring System), “Sapthagiri-Sapthapada” (Student Community Conviction) are the best practices and “Paripoornathe” is the Institutional Distinctiveness of Sapthagiri College of Engineering, which plays a vital role, in alignment with Institutional goals.

## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the College	
Name	SAPTHAGIRI COLLEGE OF ENGINEERING
Address	Sapthagiri College of Engineering Chikkasandra, Hesaragatta Road
City	BENGALURU
State	Karnataka
Pin	560057
Website	<a href="http://www.sapthagiri.edu.in">www.sapthagiri.edu.in</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Dr H Ramakrishna, Principal	080-28372800	9448978350	080-2837279 7	principal@sapthagi ri.edu.in
Professor	H. R. Ranganatha	080-28372801	9900319781	91-94489783 50	hodise@sapthagiri. edu.in

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	
Date of establishment of the college	27-06-2001



**University to which the college is affiliated/ or which governs the college (if it is a constituent college)**

State	University name	Document
Karnataka	Visvesvaraya Technological University	<a href="#">View Document</a>

**Details of UGC recognition**

Under Section	Date	View Document
2f of UGC		
12B of UGC		

**Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)**

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	<a href="#">View Document</a>	10-04-2019	12	

**Details of autonomy**

Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No
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**Recognitions**

Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

<b>Location and Area of Campus</b>				
<b>Campus Type</b>	<b>Address</b>	<b>Location*</b>	<b>Campus Area in Acres</b>	<b>Built up Area in sq.mts.</b>
Main campus area	Sapthagiri College of Engineering Chikkasandra, Hesaragatta Road	Urban	6.08	17449

## 2.2 ACADEMIC INFORMATION

<b>Details of Programmes Offered by the College (Give Data for Current Academic year)</b>						
<b>Programme Level</b>	<b>Name of Programme/Course</b>	<b>Duration in Months</b>	<b>Entry Qualification</b>	<b>Medium of Instruction</b>	<b>Sanctioned Strength</b>	<b>No.of Students Admitted</b>
UG	BE,Computer Science And Engineering	48	XII Std	English	120	120
UG	BE,Information Science And Engineering	48	XII Std	English	120	120
UG	BE,Electronics And Communication Engineering	48	XII Std	English	120	120
UG	BE,Electrical And Electronics Engineering	48	XII Std	English	120	86
UG	BE,Mechanical Engineering	48	XII Std	English	120	71
UG	BE,Bio Technology	48	XII Std	English	60	43
UG	BE,Civil Engineering	48	XII Std	English	60	44
PG	Mtech,Computer Science And	24	BE	English	24	1

	Engineering					
PG	Mtech,Electronics And Communication Engineering	24	BE	English	24	1
Doctoral (Ph.D)	PhD or DPhil,Computer Science And Engineering	48	MTech	English	4	4
Doctoral (Ph.D)	PhD or DPhil,Electronics And Communication Engineering	48	MTech	English	6	4
Doctoral (Ph.D)	PhD or DPhil,Electrical And Electronics Engineering	48	MTech	English	8	2
Doctoral (Ph.D)	PhD or DPhil,Mechanical Engineering	48	MTech	English	8	6
Doctoral (Ph.D)	PhD or DPhil,Bio Technology	48	MTech MSc	English	6	0
Doctoral (Ph.D)	PhD or DPhil,Chemistry	48	MSc	English	8	3
Doctoral (Ph.D)	PhD or DPhil,Physics	48	MSc	English	6	4

### Position Details of Faculty & Staff in the College

<b>Teaching Faculty</b>												
	<b>Professor</b>				<b>Associate Professor</b>				<b>Assistant Professor</b>			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	17				15				127			
Recruited	14	2	0	16	9	6	0	15	50	77	0	127
Yet to Recruit	1				0				0			

<b>Non-Teaching Staff</b>						
	<b>Male</b>		<b>Female</b>		<b>Others</b>	<b>Total</b>
Sanctioned by the UGC /University State Government						0
Recruited	0		0		0	0
Yet to Recruit						0
Sanctioned by the Management/Society or Other Authorized Bodies						81
Recruited	52		29		0	81
Yet to Recruit						0

<b>Technical Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				27
Recruited	17	10	0	27
Yet to Recruit				0

**Qualification Details of the Teaching Staff**

<b>Permanent Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	14	2	0	7	1	0	3	3	0	30
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	2	5	0	47	74	0	128

<b>Temporary Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

<b>Part Time Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	1	2	0	3

<b>Details of Visting/Guest Faculties</b>					
<b>Number of Visiting/Guest Faculty engaged with the college?</b>	<b>Male</b>		<b>Female</b>		<b>Total</b>
	0	0	0	0	0

**Provide the Following Details of Students Enrolled in the College During the Current Academic Year**

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
Doctoral (Ph.D)	Male	2	0	0	0	2
	Female	0	0	0	0	0
	Others	0	0	0	0	0
UG	Male	308	57	0	4	369
	Female	228	18	0	0	246
	Others	0	0	0	0	0
PG	Male	0	0	0	0	0
	Female	2	0	0	0	2
	Others	0	0	0	0	0

<b>Provide the Following Details of Students admitted to the College During the last four Academic Years</b>					
<b>Programme</b>		<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>
SC	Male	13	16	26	22
	Female	10	12	21	12
	Others	0	0	0	0
ST	Male	1	1	5	3
	Female	2	5	4	3
	Others	0	0	0	0
OBC	Male	26	56	76	64
	Female	31	46	45	53
	Others	0	0	0	0
General	Male	342	254	294	310
	Female	218	190	195	175
	Others	0	0	0	0
Others	Male	22	19	14	18
	Female	18	19	23	21
	Others	0	0	0	0
<b>Total</b>		<b>683</b>	<b>618</b>	<b>703</b>	<b>681</b>



### 3. Extended Profile

#### 3.1 Program

Number of courses offered by the Institution across all programs during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
316	333	331	305	290
File Description			Document	
Institutional data prescribed format			<a href="#">View Document</a>	

Number of programs offered year-wise for last five years?

2018-19	2017-18	2016-17	2015-16	2014-15
16	16	16	15	15

#### 3.2 Students

Number of students year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
2838	2724	2767	2542	2344
File Description			Document	
Institutional data in prescribed format			<a href="#">View Document</a>	

Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
181	181	181	181	181
File Description			Document	
Institutional data in prescribed format			<a href="#">View Document</a>	

Number of outgoing / final year students year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
658	695	612	532	431
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

### 3.3 Teachers

#### Number of full time teachers year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
157	168	155	142	128
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

#### Number of sanctioned posts year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
161	192	184	166	136
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

### 3.4 Institution

#### Total number of classrooms and seminar halls

**Response: 53**

#### Total Expenditure excluding salary year-wise during last five years ( INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
1118.9	808.9	766.24	682.98	845.79

#### Number of Computers

**Response: 697**

## 4. Quality Indicator Framework(QIF)

### Criterion 1 - Curricular Aspects

#### 1.1 Curricular Planning and Implementation

##### 1.1.1 The Institution ensures effective curriculum delivery through a well planned and documented process

##### Response:

Sapthagiri College of Engineering is an affiliated institution under Visvesvaraya Technological University (VTU) and follows the scheme and syllabus prescribed by the University. University offers 68 courses per semester per program. Faculty members give feedback about the syllabus in the Board of Studies meetings conducted by the University. However the curriculum is prepared by the institution in line with institution's vision and mission.

##### Curriculum Planning:

- The College Council which comprises the Principal and all Heads of the departments meet regularly to discuss the University related activities and academic related issues of the institution. Principal issues a circular to the IQAC to prepare the Perspective Plan of the College for the upcoming Academic year.
- Before the commencement of the academic year, the IQAC sends a notice to all Heads of the Departments to prepare and submit timetable, SPP, Budget requirement, workload and teacher requirement, curriculum plan, deployment strategy and curriculum delivery tools, bridge course/ certification course planned for next academic year to IQAC for approval and adoption.
- IQAC also sends a circular to all the committees, cells and clubs asking them to prepare and submit their perspective plan and plan of action to IQAC. The HODs will send a notice on the same or next working day and convene a meeting for brainstorming and the preparation of the same. Departments meet and prepare all the items asked by the IQAC and submit the same to the IQAC for approval. HOD allocates the subjects to all the faculty members based on their choice of expertise and experience. Faculty members prepare a well-structured course plan in line with college calendar of events, University syllabus and class time table. Additional / tutorial classes are planned in timetable for difficult courses.
- Various committees / cells / associations prepare their SPP and budget and submit the same to the IQAC for approval. IQAC prepares a consolidated College Perspective Plan and submit the same to the Principal for approval from Governing Council (GC).

##### Curriculum Implementation:

The planned curriculum is delivered to the students through

- 1.Chalk and talk
- 2.Power point presentations
- 3.Illustrative models
- 4.ICT tools like NPTEL videos, SWAYAM etc.,
- 5.Case studies

6. Role play
7. Conducting guest lectures
8. Invited talks and workshops
9. Industrial visits
10. Project work and Internships
11. Peer teaching and peer learning.

The institution has 47 ICT enabled class rooms including 4 smart class rooms. Cross cutting issues like Gender Sensitization, Environment and Sustainability, Professional Ethics and Human Values are integrated as a part of curriculum. The gaps in the syllabus are bridged in the form of content beyond syllabus through guest lectures, workshops and certification courses.

In addition to the above, curriculum delivery is through various activities outside the classroom through cells and clubs.

#### **Curriculum Delivery Review:**

- The effectiveness of curriculum implementation is reviewed by HODs in regular review meetings and by Academic and Administrative Audit Committee through IQAC every year.

#### **Performance Evaluation of Students:**

- Performance of students is evaluated through formative and summative assessments (CIE & SEE).

<b>File Description</b>	<b>Document</b>
Upload Additional information	<a href="#">View Document</a>
Link for Additional information	<a href="#">View Document</a>

#### **1.1.2 The institution adheres to the academic calendar including for the conduct of CIE**

##### **Response:**

The institution prepares the calendar of events in line with the Visvesvaraya Technological University calendar of events by including weekly working days and holidays, government holidays, internal assessment dates, practical exam dates, workshops schedule, technical seminars schedule, industrial visit dates, parent teachers meeting schedule, sports day, cultural day, graduation day, last working day of the semester and submitted to Principal for the approval of Governing Council. The approved calendar of events is published and circulated to all the staff and students and also uploaded in the college website for information and compliance.

The academic calendar of the institution is planned well in advance based on the calendar of events provided by the University and the same is displayed on the notice boards for the benefit of the students. Lesson plan and class time table are prepared based on the approved academic calendar and shared to the students through e - mail / WhatsApp group etc. The Strategic Perspective Plan (SPP) prepared and

approved at the department and institution level are in sync with the University calendar of events. The SPP also takes care of the activities like curriculum plan, internship, industrial visits, community activities by cells and clubs, besides Continuous Internal Evaluation (CIE) strategies like tests, assignments, quiz, presentations etc.

Examination Cell convener issues a circular to all Internal assessment (IA) coordinators of different departments to prepare the IA time table 10 days in advance as per the scheduled dates in COE and the same is notified and circulated to students and staff. Common date and time is followed for the courses common to all branches. CIE includes tests, assignments, problem solving, group discussion, quiz and seminars through out the semester.

- The first internal assessment test is generally scheduled in fifth week after the commencement of semester.
- Three internal tests for each semester are conducted.
- One internal assessment test for practical subjects are conducted per semester.
- Before starting of each internal assessment test assignments are given to the students for each subject which includes assignments, problem solving, group discussion and quiz.
- Seminars are given by the students on particular topic in a subject during the respective subject hour.
- Internal assessment tests are conducted, evaluated and marks are displayed.

The laboratory schedule is prepared by the concerned faculty and batch-wise details are specified. Time Table of regular lectures for the semester is prepared as well and displayed on the notice board and website. An Academic Monitoring Committee has been constituted by the Principal and monitored by the respective HOD's based on the time table.

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Link for Additional information	<a href="#">View Document</a>

**1.1.3 Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years**

1. Academic council/BoS of Affiliating university
2. Setting of question papers for UG/PG programs
3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses
4. Assessment /evaluation process of the affiliating University

**E. None of the above**

**D. Any 1 of the above**

**C. Any 2 of the above**

**B. Any 3 of the above****Response:** A. All of the above

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Details of participation of teachers in various bodies/activities provided as a response to the metric	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**1.2 Academic Flexibility****1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented****Response:** 56.25**1.2.1.1 Number of Programmes in which CBCS / Elective course system implemented.**

Response: 9

File Description	Document
Minutes of relevant Academic Council/ BOS meetings	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**1.2.2 Number of Add on /Certificate programs offered during the last five years****Response:** 55**1.2.2.1 How many Add on /Certificate programs are added within the last 5 years.**

2018-19	2017-18	2016-17	2015-16	2014-15
15	12	11	9	8

File Description	Document
List of Add on /Certificate programs	<a href="#">View Document</a>
Brochure or any other document relating to Add on /Certificate programs	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 1.2.3 Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years

**Response:** 48.01

#### 1.2.3.1 Number of students enrolled in value added courses (beyond the curriculum) offered year-wise during last five years.

2018-19	2017-18	2016-17	2015-16	2014-15
1742	1326	1475	1131	754

File Description	Document
Details of the students enrolled in Subjects related to certificate/Add-on programs	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 1.3 Curriculum Enrichment

### 1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human Values ,Environment and Sustainability into the Curriculum

**Response:**

The institution strongly believes in integrating cross cutting issues relevant to professional ethics, gender, human values, environment and sustainability with a view to ensure holistic development of the students. The students of Sapthagiri College of Engineering are trained as empowered professionals with high values and ethics to contribute to the economic and technological development of the nation.

The institution offers various courses prescribed by the affiliating University that integrate the cross cutting issues such as Human Values and Professional Ethics, Environment and Sustainability.

#### **Human Values and Professional Ethics:**

To make the students to understand the moral values and professional ethics, the institution has made

efforts towards developing value based education to students with a vision to promote values for a better citizen. Various courses like Constitution of India and professional ethics prescribed by VTU are taught to the students in all the engineering programs to imbibe and practice human values and professional ethics. In this aspect, the institution has conducted programs to build values, morality, honesty to practice, ethics and equity and to nurture respect for each other.

### **Environmental Sustainability:**

It is essential to create awareness among the students regarding the need to protect environment to keep the delicate ecosystems of our planet in balance. The institution offers a course on Environmental Science prescribed by the University to the students of all programmes. The institution also offers the University prescribed mandatory and non-core mandatory environmental courses like Municipal and Industrial waste water management, water supply and treatment engineering, Biotechnology for sustainable environment etc., to educate the students about the need to sustain and preserve the environment.

- ECO club of the Institution organized events such as best out of waste, precautions and awareness on global warming, environmental pollution and its ill effects and traffic awareness programme, to enlighten students with different issues and its effects on environment.

The NSS team organised many environmental and health care activities like Swachh Bharat Abhiyan, World Water Day, Health Camps and Exhibition and a Mega Voluntary Blood Donation Camp to address the issues related to human values and environmental sustainability.

### **Gender Sensitization:**

Gender sensitization includes a positive and gender-intelligent organizational culture, growth and progress of women leaders. The importance of gender equity is integrated in the curriculum through the events organized by Women Empowerment Cell and Equal Opportunities Committee of the institution.

SAMARTHINI - Women Empowerment Cell of the institution organised events such as “Empower rural women to enhance equity” and motivational programs such as “Be a role model - promote equality: No Gender Discrimination and not to be Sexual Pervert”.

SAPTHA SAMATHA - Equal Opportunities Committee of the institution conducted many of community activities such as Awareness program on computer usage, “Awareness Program on Children Safety”, and “Awareness Program on Women Hygiene” to make the young boys and girls gender sensitive and build a positive value that supports the girls and their rights.

<b>File Description</b>	<b>Document</b>
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>



**1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years****Response:** 83.43**1.3.2.1 Number of courses that include experiential learning through project work/field work/internship year-wise during last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
272	289	255	245	252

File Description	Document
Programme / Curriculum/ Syllabus of the courses	<a href="#">View Document</a>
MoU's with relevant organizations for these courses, if any Average percentage of courses that include experiential learning through project work/field work/internship	<a href="#">View Document</a>
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**1.3.3 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year****Response:** 25.69**1.3.3.1 Number of students undertaking project work/field work / internships**

Response: 729

File Description	Document
List of programmes and number of students undertaking project work/field work/ /internships	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**1.4 Feedback System**

**1.4.1 Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders 1) Students 2)Teachers 3)Employers 4)Alumni**

**E. None of the above**

**D. Any 1 of the above**

**C. Any 2 of the above**

**B. Any 3 of the above**

**Response:** A. All of the above

File Description	Document
Any additional information (Upload)	<a href="#">View Document</a>
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	<a href="#">View Document</a>
URL for stakeholder feedback report	<a href="#">View Document</a>

**1.4.2 Feedback process of the Institution may be classified as follows: Options:**

1. Feedback collected, analysed and action taken and feedback available on website
2. Feedback collected, analysed and action has been taken
3. Feedback collected and analysed
4. Feedback collected
5. Feedback not collected

**E. Feedback not collected**

**D. Feedback collected**

**C. Feedback collected and analysed**

**B. Feedback collected, analysed and action has been taken**

**Response:** A. Feedback collected, analysed and action taken and feedback available on website

File Description	Document
Upload any additional information	<a href="#">View Document</a>
URL for feedback report	<a href="#">View Document</a>

## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

#### 2.1.1 Average Enrolment percentage (Average of last five years)

**Response:** 88.15

##### 2.1.1.1 Number of students admitted year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
683	618	703	681	700

##### 2.1.1.2 Number of sanctioned seats year wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
768	768	768	768	768

#### File Description

#### Document

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

#### 2.1.2 Average percentage of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years ( exclusive of supernumerary seats)

**Response:** 78.23

##### 2.1.2.1 Number of actual students admitted from the reserved categories year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
83	136	178	157	154

File Description	Document
Average percentage of seats filled against seats reserved	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 2.2 Catering to Student Diversity

### 2.2.1 The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

#### Response:

The institution assesses the learning levels of students prior to commencing teaching - learning process. The college counsels the students soon after the admission and they are categorized as advanced learners and slow learners based on their performance in the qualifying examination (+2 level). From the subsequent years, categorization is made based on the performance of students in the Continuous Internal Evaluation and University examinations. The institution has an effective student centric mechanism for continuous monitoring and evaluation of the students' performance as mentioned in the SOP for slow and advanced learners.

#### Slow Learners:

The institution has an effective mentoring system to monitor the performance of slow learners. The mentor, who acts as a guide and local guardian, counsels the slow learners, identifies the nature of their problems and motivates to perform better. The academic and stress related issues are also addressed during the mentor-mentee meeting. The remedial classes are provided to enhance their performance.

#### Special Programs for Slow Learners:

The following special programs are carried out to encourage slow learners to enhance their communication skills and fundamental knowledge, which results in better performance.

- Remedial / tutorial classes are conducted for difficult subjects to clarify the doubts and to strengthen mathematical and fundamental concepts of engineering.
- Peer learning is facilitated by advanced learners, usually the toppers.
- Subject teachers provide module - wise question bank, based on University question paper pattern.
- Problems from University question papers or question bank are solved to prepare them for University exams.
- The financial support for slow learners will be provided by the management based on the need.

#### Advanced Learners:

The best performers of the Semester End Examination are identified as advanced learners. Advanced learners are encouraged and motivated to perform better by providing them with all the support needed. They are advised by the Heads / Senior Professors of the concerned departments and mentors, to achieve better performance in their academics.

**Special Programmes for Advanced Learners:**

The following special programs are carried out to encourage advanced learners to enhance their overall personality development.

- Involvement of advanced learners in the peer teaching to enhance their leadership / presentation skills.
- Opportunity is given to become a class representative and student representatives in various committees, which in turn enhances their leadership qualities.
- Motivated to carry out innovative projects with financial support from the Management.
- Motivated and encouraged to prepare for online courses and competitive examinations.
- Encouraged to participate in symposiums, seminars, workshops, etc.
- Motivated them to present / publish papers in conferences / journals.
- Encouraged them to achieve University rank, to place in top notch companies or to pursue higher studies.
- They are honoured with cash prizes and certificates.
- Rank holders / gold medalists are felicitated for academic excellence with cash prize and certificates.

The advanced learners / toppers' names and photos are published in department notice board, newsletters, magazines, website etc.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Past link for additional Information	<a href="#">View Document</a>

**2.2.2 Student- Full time teacher ratio (Data for the latest completed academic year)**

**Response:** 18.08

File Description	Document
Any additional information	<a href="#">View Document</a>

**2.3 Teaching- Learning Process****2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences**

**Response:**

The institution has adopted the following student centric methods to implement an Outcome Based Education through experiential learning, participative learning and problem solving methods for enhancing the learning experiences of students.

**Project / Mini project / Internship:** Students are involved in real time and societal projects in the field of agriculture, automobile, pollution, etc. Many projects are funded by KSCST and a few innovative projects are published in newspapers. As part of curriculum deployment strategy, students are encouraged to attend the internship programs to enhance their knowledge and skills.

**Seminars:** Students are motivated to participate and present papers in seminars on recent development in technology, which help them in improving their communication and presentation skills.

**Industrial Visits / Field Trips:** It enhances the students to visualize the concepts learnt in the classroom and update their knowledge. This inculcates participative and experiencing learning among students.

**Technical Talks / Guest Lectures:** The talks by industry and academic experts are arranged for students so as to update their knowledge and to bridge the gap between industry and academia.

**Peer Teaching and Peer Learning:** The advanced learners are encouraged to explain their experience of problems solving to slow learners, which in turn results in better relationship and establish a belief of “To teach is to learn twice”.

**Innovative Teaching Methodology:** Teachers use ICT methods, PPTs, demonstration models, etc., in the teaching learning process, which enhances learning ability of the students.

**Case Studies:** The concepts taught in classes are used to study the real-time context, which improves participative learning.

**Quiz / Puzzle:** Quiz and Puzzles help the students to prepare for the aptitude test or competitive examinations.

**Resources:** The institution has a Central Library which is well equipped with good number of books, e-books, technical magazines, journals, e-journals and NPTEL lecture videos, which serve as a Knowledge Resource Centre.

**Language Laboratory:** Vocabulary and pronunciation training are supported by the language laboratory.

**Placement Training:** The training on HR skills, group discussion, aptitude tests, mock interviews, etc., are provided by Placement Department Cell to enhance overall personality development of students.

**Student Seminars in Class:** Students are encouraged to demonstrate the particular topic in a course to enhance their presentation skills.

**Oral Quiz:** Oral quiz conducted in class, enables the students to be attentive.

**Publications:** Students are motivated to bring out technical articles / papers in association with faculty so that they are exposed to technical paper writing skills, plagiarism and research ethics.

**Laboratory - Theory Integration:** The theoretical concepts are taught in the class are validated by conducting related experiments, which enhances participative, experiential and problem solving learning.

**Hands-on Sessions:** Hands-on sessions are carried out in the institution and internship, which helps the

students to improve their experiential learning.

**Deep Learning:** Subjects involving more numerical problems are taught extensively by taking extra hours, especially where more attention is needed.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### 2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

#### Response:

The teachers are using ICT enabled tools for effective teaching - learning process because of different learning abilities of the students. The use of technology in the classrooms provides greater opportunities for effective learning for everyone with different needs. By using technology in our classrooms, both teachers and students have learnt essential skills. Teachers are using different apps or trusted online resources to enhance the traditional ways of teaching and to keep students more engaged.

The use of internet has provided our students to access a broad range of resources for conducting research projects, technical seminars, laboratories, online activities, sharing documents, writing and speaking skills, which in turn increases the student involvement.

The following methods are adopted in the institution in teaching-learning process:

1. The faculty has adopted relevant ICT methods like videos, PPTs, simulations, animations and quiz depending on the course and the situation to create the best learning environment for the students.
2. The faculty members has improved from the traditional blackboard teaching, by using the resources such as NPTEL, VTU e-learning, e-books, technical magazines and journals to keep the students more actively involved in the classroom session.
3. The students and teachers have participated in project work / technical seminar presentations to share their knowledge on the current topics. This helps the students to improve their communication, personality development, group discussions, case studies, presentation skills etc.
4. As per the requirement, to make the teaching and learning experience more effective and interesting, the institution provides modern teaching aids coupled with required equipments for the laboratories and classrooms.
5. The institution has provided 47 ICT enabled classrooms, including 04 smart classrooms.
6. The institution has provided 16 Laptops to various departments.
7. All the labs are connected with LAN with internet facility.
8. The college has provided internet and Wi-Fi facility with 100Mbps internet band width.

#### ICT Facilities in the Institution:

1. The institution has digital library, which helps the students to access NPTEL (National Program on Technology Enhanced Learning) lectures and study materials.
2. The classrooms and laboratories are equipped with LCD projectors, computer facility, projector screen, audio system, laptop connecting facility, uninterrupted power supply (UPS).
3. The institution has well equipped seminar halls in each block.
4. All computer laboratories are connected with LAN with bus topology.
5. The e-copies of the faculty notes and e-books are available in the Library.
6. The students and faculty are access to information through internet and Wi-Fi with 100Mbps bandwidth in the campus including hostels.
7. The teachers are using ICT tools for effective teaching - learning process.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	<a href="#">View Document</a>

### 2.3.3 Ratio of mentor to students for academic and other related issues (Data for the latest completed academic year )

**Response:** 19.57

#### 2.3.3.1 Number of mentors

Response: 145

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	<a href="#">View Document</a>
mentor/mentee ratio	<a href="#">View Document</a>
Circulars pertaining to assigning mentors to mentees	<a href="#">View Document</a>

## 2.4 Teacher Profile and Quality

### 2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

**Response:** 89.78



File Description	Document
Year wise full time teachers and sanctioned posts for 5years(Data Template)	<a href="#">View Document</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

Response: 10.14

##### 2.4.2.1 Number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
33	13	11	10	10

File Description	Document
List of number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. and number of full time teachers for 5 years (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)

Response: 5.59

##### 2.4.3.1 Total experience of full-time teachers

Response: 877.8

File Description	Document
List of Teachers including their PAN, designation, dept and experience details(Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 2.5 Evaluation Process and Reforms

### 2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode

#### Response:

The institution is affiliated to Visvesvaraya Technological University (VTU) and follows the Rules and Regulations for the assessment and evaluation processes. The students' performance is evaluated through formative assessments / CIE and summative assessment / SEE strategies.

The students admitted during the academic year 2015 and 2016 the scheme of CIE shall be of maximum of 20 marks in each theory and practical paper. CIE marks in each theory course shall be the sum of marks prescribed for test and assignment. The marks prescribed for test shall be 15 and that for an assignment is 05, this is awarded based on the evaluation of assignments, unit tests, written quiz etc. In case of 2017 and 2018 batch scheme, CIE and SEE marks are 40 and 60 respectively.

#### Mechanism of Internal (formative) Assessment:

The examination and evaluation are carried out as per the SOP issued by the Examination Committee to ensure fair and transparent conduction of formative assessment. The CIE marks shall be awarded based on formative assessment of IA tests and other strategies.

#### Transparent Assessment:

The institution's academic calendar is circulated to all the students and the pattern of the question paper, scheme of evaluation for CIE and SEE is discussed at the beginning of the semester.

The subject faculty prepares question paper and scheme of evaluation and scrutinized by the department Academic Committee for better transparency. The IA tests are conducted in blue books and evaluated as per the schedule. The scheme of evaluation is shared with students while distributing blue books and issues if any, connected with evaluation are resolved. The assessed marks are submitted to the concerned department and in turn sent to parents through Automated Monitoring of Proctorial System (AMPS).

#### Robust Assessment:

The formative assessment / CIE is made more robust to enhance student's overall personality development. The advanced and slow learners are made actively involved in formative assessment strategies to help them to improve their academic performance. The planned curriculum is shared to the students through the following formative assessment strategies.

#### Classroom interactions:

- Question and answer sessions
- Oral quiz
- Unit test
- IA test
- Assignment

**Classroom activities:**

- Peer teaching
- Peer learning
- Problem solving
- Brainstorming sessions
  
- Seminar presentation
- Group presentations

**Activities outside the classroom:**

- Industrial visit
- Internship
- Technical paper presentation
- Student participation in college events / committees
- Participation in online courses
- Case studies
- Hands-on workshop

The formative assessment is made more robust by having a variety of assessment methods such as IA tests, assignments, unit tests, quiz, laboratory tests, subject seminar, technical seminar, internship, mini project, project work with different mode of conducting such as written, oral, presentation, online, hands-on etc.

**Summative Assessment:**

The Semester End Examination (summative assessment) is conducted for both theory and laboratory courses as per University timetable. The procedure and methodology is in accordance with the examination and evaluation SOP.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

**2.5.2 Mechanism to deal with internal/external examination related grievances is transparent, time-bound and efficient****Response:**

The institution follows the University guidelines for the formative assessment / CIE and summative assessment / SEE process and is communicated to all the students. The Examination and Evaluation Committee is constituted with Principal as the Chairperson for the smooth conduct of examinations and to handle the examination related grievances as per the SOP.

One of the senior staff from the examination section is appointed as Liaison Officer by the Principal to coordinate with the University, in matters related to the examination and to maintain student records.

The University Rules & Regulations related to examinations and possible issues are briefed to all students in the orientation program conducted at the beginning of the academic year. The circulars and notices related to the conduct of internal assessment and University examinations, declaration of results, etc., are communicated to all the students on time. All the grievances related to internal and University examination / evaluation are addressed in a transparent, time bound and efficient manner and resolved at different levels.

#### **Institution Level Grievances:**

In case of formative assessment, the student who has the grievance will be redressed by the teacher concerned. On the next level, if the grievance is not redressed, then the student shall meet the HOD and then the Principal for grievance redressal. For this purpose the grievance register is kept in each department under the supervision of a faculty coordinator. The grievances are registered and solved at department level on the same day or next working day depending upon severity. Most of the internal examination related grievances are about laboratory, assignments, internal marks, improvement test, change of project title / batch, project presentation, technical seminar, etc.

The internal evaluation process is done according to the University guidelines. The pattern of question paper and syllabus for each test is communicated to the students well in advance by the teachers / class teachers. The scheme of evaluation is shared with students while distributing blue books and also discussed to clarify doubts and for grievance redressal, if any.

#### **University Level Grievances:**

At the University level (summative assessment) grievances, the student has to submit a letter to the Principal stating the nature of the grievance. The grievances are recorded in the grievance register by the Liaison Officer. The register contains the details like student name, USN, nature of the grievance, date, signature etc. The supporting documents are also maintained in a separate file for the future reference. The grievances are discussed with the Principal and communicated to the University for further action.

The University level grievances include issues like name correction, USN generation, examination application filing, hall ticket generation, announcement of results, revaluation results, marks cards, degree certificates etc.

After announcement of the results, if the students are not satisfied with the marks awarded for a particular subject, the students can apply for revaluation / photo copy of answer script and can obtain a soft copy through e-mail. The other related details are according to University SOP.

<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

## 2.6 Student Performance and Learning Outcomes

**2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.**

### **Response:**

The institution has adopted the Outcome Based Education (OBE) in its teaching, learning and evaluation process and strives for continuous improvement.

The Program Outcomes (POs) are defined by National Board of Accreditation (NBA) are common for all programs across departments and are customized for applicability to the respective program. The Program Specific Outcomes (PSOs) are framed by the respective department through brain storming in the Department Academic Committee. The Course Outcomes (COs) are defined by the course coordinator along with faculty experts, by brainstorming and are finally approved by the HOD.

Consequently, Program Outcomes, Program Specific Outcomes and Course Outcomes for all the programs offered by the institution are stated and displayed on the college website-department wise, from the first year to the fourth year for communicating with teachers, students and other stakeholders.

### **Mechanism of Communication:**

The syllabus copy for each program is designed by the University and the institution adheres to it. In the syllabus, the course objectives and outcomes for each course are available. The syllabus is made available to students as well as faculty in the library both in hard and soft copies.

The Program Outcomes and Program Specific Outcomes are briefed to the students at the beginning of the semester. The Course Outcomes are briefed by individual course teacher in the first class at the beginning of the semester.

In addition, the teachers and students of the institution become familiar with Program Outcomes, Program Specific Outcomes and Course Outcomes in the following ways:

- Display boards in various departments, classrooms and corridors
- Department notice boards / laboratory notice boards
- Project diary / lab manuals
- Awareness programs by IQAC
- COs through course wise discussion in the classroom
- Lesson plan
- Internal assessment test question papers

Program Outcomes, Program Specific Outcomes and Course Outcomes for all the programs are offered by the institution is available in the website.

File Description	Document
Upload COs for all Programmes (exemplars from Glossary)	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Past link for Additional information	<a href="#">View Document</a>

### 2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

#### Response:

The institution has adopted outcome based education in its teaching, learning and evaluation process and strives for continuous improvement. The curriculum, assessment and evaluation are the major tools by which learning outcomes are attained. The Course Outcomes are mapped with Program Outcomes and Program Specific Outcomes for all courses in all the programs. The mapped matrix is used for attainment. The results of Semester End Examinations (summative) conducted by the University and the Continuous Internal Evaluation (formative) conducted by the institution, are used as input for calculating attainments of all the outcomes. All attainments are calculated and evaluated using the Microsoft excel sheets.

The formative and summative assessment of students' progress and learning outcomes are measured systematically throughout the program using both direct (formative and summative assessment) and indirect assessment methods as listed below.

#### Direct Assessment Methods:

- Question and answer sessions in the classroom
- Internal assessment tests
- Assignments
- Unit tests
- Quiz
- Laboratory exercises
- Seminars
- Internship
- Projects
- Semester end examination

#### Indirect Assessment Methods:

- Course end survey
- Program exit survey
- Alumni survey

#### Formative Assessment:

Program Outcomes are also measured based on formative assessment of academic performance of the students, including group discussions, peer teaching, peer learning, oral quiz, seminar, which contribute to

presentation skills, problem solving skills, communication skills, leadership skills etc. All these activities are assessed by the respective teacher and communicated to respective mentors, to record in mentor manual (Proctor Diary). The marks obtained by each student are considered for 05 marks out of 20 marks as per the University regulations.

### Summative Assessment:

The Semester End Examination (summative) is conducted and evaluated by the University. The question paper pattern is well defined in the scheme and syllabus prescribed by the University, which addresses all the Course Outcomes and appropriate bloom taxonomy levels. The SEE is for 80 marks as per the University and is used for Course Outcome attainment in the direct method of assessment.

To evaluate the attainment of POs and PSOs, the results of CO attainment, formative assessment, exit survey, alumni survey etc., are used. The final PO and PSO attainment is calculated for the particular graduated batch with a corresponding scheme by considering the weightage as

Direct assessment-80%

Indirect assessment-20%.

To calculate Course Outcome attainment for a course, the target is fixed based on previous academic performance of the students and course. This process is carried out for the entire class, and final Course Outcome attainment will be calculated based on formative and summative assessments. The outcome of the analysis is used to improve the teaching - learning process in the particular course and the defined target is achieved, then the Course Outcomes are attained. Further, higher targets are set for the subsequent years as a part of continuous improvement. If the target is not achieved, then an action plan is initiated to take necessary action to attain the target.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for Additional information	<a href="#">View Document</a>

### 2.6.3 Average pass percentage of Students during last five years

**Response:** 93.97

#### 2.6.3.1 Number of final year students who passed the university examination year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
623	650	576	499	404

**2.6.3.2 Number of final year students who appeared for the university examination year-wise during the last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
658	695	612	532	431

<b>File Description</b>	<b>Document</b>
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Paste link for the annual report	<a href="#">View Document</a>

**2.7 Student Satisfaction Survey****2.7.1 Online student satisfaction survey regarding teaching learning process****Response:**

<b>File Description</b>	<b>Document</b>
Upload database of all currently enrolled students (Data Template)	<a href="#">View Document</a>



## Criterion 3 - Research, Innovations and Extension

### 3.1 Resource Mobilization for Research

**3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)**

**Response:** 16.12

**3.1.1.1 Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)**

2018-19	2017-18	2016-17	2015-16	2014-15
2.9	8	1.06	3.62	0.54

File Description	Document
List of endowments / projects with details of grants	<a href="#">View Document</a>
e-copies of the grant award letters for sponsored research projects / endowments	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.1.2 Percentage of teachers recognized as research guides (latest completed academic year)**

**Response:** 12.74

**3.1.2.1 Number of teachers recognized as research guides**

**Response:** 20

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years**

**Response:** 54.29

**3.1.3.1 Number of departments having Research projects funded by government and non-government agencies during the last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
3	6	3	4	3

### 3.1.3.2 Number of departments offering academic programmes

2018-19	2017-18	2016-17	2015-16	2014-15
7	7	7	7	7

File Description	Document
Supporting document from Funding Agency	<a href="#">View Document</a>
List of research projects and funding details	<a href="#">View Document</a>
Paste link to funding agency website	<a href="#">View Document</a>

## 3.2 Innovation Ecosystem

### 3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

#### Response:

The Institute is very supportive in creating a suitable environment for research and entrepreneurship. It nurtures the curiosity and ideas of the researchers / entrepreneurs. The college provides a suitable space along with the required infrastructure and also helps for exchange of information between research centers.

The college provides high speed internet (100 Mbps) LAN and Wi-Fi facilities for both faculty and students. The college has an excellent library facility consisting about 30000 volumes, 6000 titles of Research, Technical and Management books. The library has also subscribed for e-books, conference journals, IEEE journals and supportive material for research which can be used by the students, faculty and researchers. Thus the institution caters the need for materials for research scholars.

The college also has a R & D, Entrepreneurship Committee and Incubation Centre (RDECI) which encourages the young engineers and faculty towards research. Research Methodology, IPR and Entrepreneurship workshops are being conducted, which provides a base for researchers. Research guides are motivating the researchers and guiding them in all the phases of their work.

Incubation center is a platform for young engineers to develop their skills towards entrepreneurship. The research and project outcome will be helping the mankind in general and society in large. Project funds are also provided to the deserving students to carryout the project.

Different departments in the college encourage students to participate in various competitions at National / International level every year. Students are taking these innovative projects with interest and have won awards and good appreciation.

**Innovative Projects made by the Students of different Departments of Engineering are as follows.**

- **Multi-Robot System to Render Service and Surveillance in Hospital.**

This will deliver water bottles, newspapers and magazines to the in-patients and surveillance of the environment for fire hazards.

- **SNAPS**

In this project fruit peels are used which act as adsorbent of toxic metals which is used to reduce the pollution in lakes.

- **Modification of Bajaj Chetak into Electric Scooter**

An old Bajaj Chetak scooter was converted into an electrical vehicle by modifying the existing components.

- **Multipurpose agricultural equipment**

Design and fabrication of multipurpose equipment which is used for land preparation, sowing, fertilizing and leveling.

- **Blind man Smart Stick**

An innovative Blind man Smart Stick has been designed for visually disabled people for improved navigation.

**Projects made by the Students of different Departments of Engineering which have won laurels:**

- **Design and Fabrication of Articulated 3-D printer**

3D printer design was appreciated by the media persons in the exhibition (June 2019).

- **Insect Inspired Hexapod with Audio-Video and IR Features:-**

This work was awarded 3rd prize at SRISHTI-2018.

- **Team Torque Racing**

This was awarded with MOST DYNAMIC BALANCED KART AWARD in “ELITE RACING 2017”.

- **Digital clock with LED hands**

This was appreciated in the project expo and published in all the leading newspapers on 3rd August 2019.

◦ **System for Swift Passage Ambulances through Traffic Lights Junctions**

This project was appreciated in the press meet on 26th June 2019.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

**3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years**

Response: 50

**3.2.2.1 Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year-wise during last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
23	9	9	5	4

File Description	Document
Report of the event	<a href="#">View Document</a>
List of workshops/seminars during last 5 years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.3 Research Publications and Awards

**3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years**

Response: 1.37

**3.3.1.1 How many Ph.Ds registered per eligible teacher within last five years**

Response: 26

**3.3.1.2 Number of teachers recognized as guides during the last five years**

Response: 19

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
URL to the research page on HEI website	<a href="#">View Document</a>

### 3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years

Response: 0.67

#### 3.3.2.1 Number of research papers in the Journals notified on UGC website during the last five years.

2018-19	2017-18	2016-17	2015-16	2014-15
27	15	28	15	16

File Description	Document
List of research papers by title, author, department, name and year of publication	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Response: 0.9

#### 3.3.3.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
26	56	18	10	25

File Description	Document
List books and chapters edited volumes/ books published	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.4 Extension Activities

#### 3.4.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

##### Response:

The major strength of the institution is its capability to ensure the holistic development of the students and to make them responsible citizens by educating them the moral values through the participation in extension activities. The institution motivates and supports the students to participate in social services.

The institution has established various clubs, committees and cells like NSS, ECO Club, Community Club, Equal Opportunity Club, Human Rights Club, Women Empowerment Cell, Prevention of Sexual Harassment Cell and Health Club involved in social activities and to inculcate social responsibility and service mindset. The institution conducts regular extension activities through various clubs, committees and cells to reach out neighboring social groups and to sensitize the students towards society and holistic personality development. The objective of all the above bodies is to reflect the essence of democratic living and to uphold the need for self-less service. This helps the students to develop a concern on the health, environment, educating the rural people, improvement in the community service along with leadership qualities with good moral and ethical values that helps the students for holistic development.

The following activities are carried out to sensitize and impact the students about social issues and holistic developments.

- The students of the institution in association with Sapthagiri Institute of Medical Science & Research Center (SIMS & RC) have developed a Multi-Robot System to render service and surveillance in hospitals.
- Students of department of Electrical and Electronics Engineering have developed a blind man smart stick- an innovative stick designed for visually disabled people for improved navigation. The advanced blind stick allows visually challenged people to navigate with ease using advance technology.
- Various projects have been carried out in Biotechnology department in order to address the environmental issues such as heavy metal contamination in water and sewage treatment, Conversion of waste products to value added products, Bio-diesel production, Green chemistry, Pharmacological activities, Bio-remediation, Energy conservation and assisting in agriculture sector.
- NSS organizes special camps, where in activities like cleaning of village and lake, awareness on health and hygiene, educating the school students etc., are carried out to sensitize students on social issues.

Other than NSS, remaining clubs organized visits to nearby village to create awareness on issues like

health, education, traffic, environment protection, organic farming etc.

- Involving students in raising charity and relief funds during natural calamities.
- Organizing blood donation camps in association with Red Cross Society.
- Tree plantation, Swachh Bharat Abhiyan, conducting campaign on plastic free zone etc., has created a concern among the students about environment.
- Creating awareness through Women Empowerment Cell among the rural women and girl students of Govt. schools on issues like health and hygiene, various Government schemes for empowerment of women, gender equality etc.
- Through Prevention of Sexual Harassment Cell rural women and girl students are educated on prevention of issues like, sexual harassment, abuse etc.
- Through Equal Opportunity Cell, awareness is created on opportunities for women belonging to rural, backward community. Awareness is created among the farmers on organic farming, soil fertility, drip irrigation etc.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

### 3.4.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years

**Response:** 24

#### 3.4.2.1 Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.

2018-19	2017-18	2016-17	2015-16	2014-15
7	6	6	2	3

File Description	Document
Number of awards for extension activities in last 5 year	<a href="#">View Document</a>
e-copy of the award letters	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.4.3 Number of extension and outreach Programmes conducted by the institution through NSS/ NCC/ Red Cross/ YRC etc., ( including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. ) and / or those organised in collaboration with industry, community and NGOs

during the last five years.

**Response:** 65

**3.4.3.1 Number of extension and outreach Programmes conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
19	19	11	8	8

<b>File Description</b>	<b>Document</b>
Reports of the event organized	<a href="#">View Document</a>
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years**

**Response:** 80.53

**3.4.4.1 Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year-wise during last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
2575	2492	2456	1645	1570

<b>File Description</b>	<b>Document</b>
Report of the event	<a href="#">View Document</a>
Average percentage of students participating in extension activities with Govt or NGO etc	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.5 Collaboration



**3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year****Response:** 375**3.5.1.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
328	5	12	14	16

File Description	Document
e-copies of related Document	<a href="#">View Document</a>
Details of Collaborative activities with institutions/industries for research, Faculty exchange, Student exchange/ internship	<a href="#">View Document</a>

**3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years****Response:** 19**3.5.2.1 Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
4	5	2	4	4

File Description	Document
e-Copies of the MoUs with institution/ industry/corporate houses	<a href="#">View Document</a>
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## Criterion 4 - Infrastructure and Learning Resources

### 4.1 Physical Facilities

**4.1.1 The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.**

**Response:**

The institution provides adequate facilities as per the norms of AICTE and VTU. Based on the requirement, management has generously provided and enhanced the infrastructure of the institution.

The various infrastructure facilities provided by the management are as follows:

**Classrooms, Laboratories, Computing Equipment:**

The institution is spread across 6.08 acres campus with lush green landscape with 17449 sq. meters built up carpet area and is located in the city of Bengaluru which is easily accessible to the public through train, bus and metro transportation.

**Class Rooms:**

The institution has 50 class rooms for teaching and learning in which 47 class rooms are equipped with ICT enabled facilities such as LCD projectors, smart interactive board and Wi-Fi.

**Smart Class Room:**

Out of 50 classrooms 4 class rooms are equipped with smart interactive boards and multimedia facilities.

**Laboratories:**

There are 52 Laboratories in the institution and the laboratories are equipped with adequate number of laboratory equipments and machines. Students are allowed to carry out mini projects and major projects in the respective laboratories in different time slots.

**Seminar Hall:**

The institution has two seminar halls and these halls are used by different departments for the purpose of conducting guest lectures, seminars and other departmental activities.

**Auditorium:**

The institution has an auditorium with a seating capacity of 300 and equipped with LCD projector, screen, audio system with multimedia capability. The auditorium is used for conducting workshops, seminars and other cocurricular and extra curricular activities in the institution.

**Computing Equipments:**

The institution has 775 computers, 15 laptops, 2 photocopier, 74 printers, 10 scanners, 2 servers, 60 access points, 65 numbers CC cameras to facilitate computing and internet browsing and surveillance.

#### **Internet and WI-FI:**

The institution is completely enabled with Wi-Fi facility and the institution has upgraded its internet speed to 100 Mbps through leased line. An additional 4 Mbps dedicated internet facility is provided exclusively for conducting University examination.

#### **Training and Placement Facility:**

The institution has an active Training and Placement Cell, which is headed by a qualified and experienced full time Placement Officer. The Placement Officer is supported by well qualified supporting staff. Department level coordinators are identified in each department to coordinate the activities in sync with the placement cell.

#### **Library:**

The institution has a fully automated library using e-Granthalaya version 3.0 software. This is used for circulation, procurement of books and OPAC.

The institution library has around 29,000 volumes in its inventory along with e-journals and online e-resources and these resources are made available to the students and faculty members of the institution.

#### **Hostel:**

The institution provides hostel facilities for both girls and boys. Both the hostels are provided with all necessary facilities. Girls hostel with 62 rooms having a capacity of 166 students is situated within the campus and a separate boys hostel with 86 rooms facilitating 174 students is situated nearby the institution.

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### **4.1.2 The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga etc.**

##### **Response:**

##### **Facilities for Cultural Activities:**

The following are the facilities available for cultural activities in the institution:

##### **Amphitheatre:**

The institution has a state of art open air amphitheatre with lush green surroundings being the main attraction in the campus with a seating capacity of 2500 to conduct various college curricular, co-curricular and extra curricular activities.

The institution has provided sophisticated, modern musical instruments like guitar, drum, tamate, mouth organ, sound system etc., for conducting various events.

**Auditorium:**

The institution has an auditorium with a seating capacity of 300 and equipped with LCD projector, screen, audio system with multimedia capability. The auditorium is used for conducting co-curricular and extra curricular activities in the institution.

**Sport and Games:**

The institution provides adequate facilities for ensuring physical education activities to keep the students physically fit and healthy.

- The Physical Education Department (PED) in the institution offers healthy and diverse opportunities for promoting sports activities among student community.
- Students are motivated to take part in various International, National, State, University and Intercollege level sports activities.
- The institution has an adequate indoor and outdoor play ground. In addition, the institution has well equipped Gymnasium and Yoga center.

The following indoor and outdoor facilities are available in the campus.

**Indoor facilities:**

- 1.Chess boards - 07
- 2.Carrom boards - 04
- 3.Gymnasium & Yoga center- 01
- 4.Table Tennis board - 01

**Outdoor Facilities:**

- 1.Cricket field - 01 (Ø100 mts)
- 2.Volley Ball court - 01 (18x09 mts)
3. Basket Ball court- 01 (28x15 mts)
- 4.Hand Ball court - 01 (40x20 mts)
- 5.Throw Ball court - 01 (12x18 mts)

- 7.Kabaddi court - 01 (13x10 mts)
- 8.Kho - Kho court - 01 (30x19 mts)
9. Ball Badminton court - 01 (12x24 mts)
10. Athletic Track-200 meters
- 11.Football court - 01 (Ø90 mts)

### Gymnasium & Yoga Center:

The institution has well-equipped multi special Gymnasium & Yoga center for the students and staff and training is provided by the Physical Education Director and yoga teacher.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

#### 4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)

**Response:** 94.34

##### 4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 50

File Description	Document
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>

#### 4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)

**Response:** 51.7

##### 4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
698.18	200.43	424.7	355.9	539.44

File Description	Document
Upload Details of budget allocation, excluding salary during the last five years (Data Template)	<a href="#">View Document</a>
Upload audited utilization statements	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>

## 4.2 Library as a Learning Resource

### 4.2.1 Library is automated using Integrated Library Management System (ILMS)

#### Response:

#### Library and Information Centre:

The institution has a fully automated library using e-Granthalaya software-version 3.0 (Open Source) used for acquisition, cataloguing, circulation, procurement of books, serial control modules and Online Public Access Catalog (OPAC). All the library documents are bar-coded and books are issued to users by reading the barcode of the document.

**Name of the ILMS software :** e-Granthalaya (Open source)

**Nature of automation :** Fully Automated

**Version :** 3.0

**Year of Automation :** 2013 to till date

#### Features of e-Granthalaya

- e-Granthalaya version 3.0 : Library Software
- e-Granthalaya is an absolute user - friendly software.
- It is a simplified package, which requires minimum user interaction and features interactive data handling for storing backup etc.
- e-Granthalaya is an easy and effective software for maintenance of books, journals and users. The system finds the status of books or users automatically and eases the circulation process accordingly.
- It contains enhanced, simplified search facility which can locate books and identify users effectively through OPAC.
- Cataloguing module facility of the software helps for catalogue books, articles, serial publications.
- Institution has Integrated Library Management System (ILMS) used for statistical analysis required for library management system such as weekly transitions, most issued items, less issued items, most book borrowed user etc.
- The Acquisition module is utilized for generating accession register reports, adding student record, updating item lending policy and its status.
- The Library and Information Centre have topography of 724 sq.m area.

- Dedicated staff members take care of the issue/ return desk, reading room section, reference section and digital library.

### SC/ST Book Bank Facility:

The Library has book bank facility for SC/ST students, from which students can borrow two books in each semester.

**Digital Library URL:** <http://192.168.1.222:8080/jspui/>

The Library and Information Centre has digital Library with the following resources.

- Previous year question papers
- e-books
- e-magazines
- Study materials
- Rare books <http://192.168.1.222:8080/jspui/handle/123456789/4115>

Web link for e-grathalaya <https://egranthalaya.nic.in/>

Delnet: <http://164.100.247.30/>

Library OPAC : <http://192.168.1.102/opac/>

Digital repositories of SCE: <http://192.168.1.222:8080/jspui/>

Library web page: <https://sapthagirilibrary.webs.com/>

Remote access gateway for online e-resources subscribed through VTU Consortium: <https://sceb.new.knimbus.com/user#/home>

The institution library is equipped with books for Competitive Exams, Personality Development, Quantitative Aptitude, Hand Books, Kannada Books and Spiritual Books. Separate stacking racks are maintained for Books, Magazine and Newspaper.

### Number of Titles and Volumes

Total Number of titles : 5734

Total number of volumes : 28689

File Description	Document
Upload any additional information	<a href="#">View Document</a>

### 4.2.2 The institution has subscription for the following e-resources

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases
- 6.Remote access to e-resources

E. None of the above

D. Any 1 of the above

C. Any 2 of the above

B. Any 3 of the above

**Response:** A. Any 4 or more of the above

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Details of subscriptions like e-journals, e-ShodhSindhu, Shodhganga Membership , Remote access to library resources, Web interface etc (Data Template)	<a href="#">View Document</a>

#### 4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

**Response:** 19.55

##### 4.2.3.1 Annual expenditure of purchase of books/e-books and subscription to journals/e- journals year wise during last five years (INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
26.5	22.19	18.85	12.05	18.14

File Description	Document
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the last five years (Data Template)	<a href="#">View Document</a>
Audited statements of accounts	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>



**4.2.4 Percentage per day usage of library by teachers and students during the last completed academic year****Response:** 23.97**4.2.4.1 Number of teachers and students using library per day over last one year****Response:** 718

<b>File Description</b>	<b>Document</b>
Details of library usage by teachers and students	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**4.3 IT Infrastructure****4.3.1 Institution frequently updates its IT facilities including Wi-Fi****Response:****Frequency of Update:****Academic Year 2018-19:**

- 73 computers of Dell Core i5, 4 GB RAM, 1 TB HDD 8th Generation computers were purchased and a computer with specification, Core i7, 16 GB RAM, 2 TB HDD 7th Generation purchased.

**Academic Year 2017-18:**

- 30 computers Dell Core i3, 4 GB RAM, 1 TB HDD 6th Generation computers were purchased and the existing functional Computers were updated successfully. A computer of type Dell Core i7, 16 GB RAM, 1 TB HDD 7th Generation purchased.

**Academic Year 2016-17:**

- 44 computers of Dell i3, 4 GB RAM, 500 GB HDD 6th Generation computers were purchased. A computer of type Dell Core i7, 4 GB RAM, 500 GB HDD 7th Generation purchased

**Academic Year 2015-16:**

- 108 computers of Dell i3, 4 GB RAM, 500 GB HDD 6th Generation were purchased. The nonfunctional computers were replaced with new computers.

**Academic Year 2014-15:**

- 24 computers of LENOVA i3, 4 GB RAM, 1 TB HDD computers were purchased. 35 computers of

Acer i3, 2 GB RAM, 500 GB HDD computers were purchased. The nonfunctional computers were replaced with new computers.

The total number of computers available in the institution with LAN facility is 775.

### **Frequency of Upgradation:**

The latest upgradation of the computers in the institution are as follows:

#### **Academic Year 2018-19:**

- Question Paper Distribution System (QPDS) computer is upgraded from 4 GB RAM to 16 GB RAM.

#### **Academic Year 2014-15:**

- Computers in Bioinformatics Lab, Department of Bio-technology were upgraded from 1 GB RAM to 2 GB RAM.
- Computer in Placement Department has been upgraded from 1 GB RAM to 2 GB RAM.

### **Internet & Wi-Fi:**

The augmentation of IT infrastructure is a regular process to meet the requirements of the curriculum and student strength. Accordingly, following is the list of upgradation of internet and Wi-Fi facilities during the last five years:

#### **Academic Year 2014 -15:**

Wi-Fi: Wi-Fi was installed in the campus with 3 access points

#### **Academic Year 2015 -16:**

Wi-Fi: Continued with same 3 access points

#### **Academic Year 2016-17:**

Wi-Fi: Additional 16 access points were installed in Girls Hostel and 7 access points were installed in the faculty rooms.

#### **Academic Year 2017-18:**

Wi-Fi: An additional access point was installed in the Bio Technology department.

#### **Academic Year 2018-19:**

Wi-Fi: Additional 21 access points were installed in the Boys Hostel and 33 access points were installed all over the campus.

- All computers in the institution are connected to the internet for students usage. Besides, surplus ethernet ports are provided for laptops and IT equipments.
- A separate team of staff and faculty members are given responsibility to take care of the issues related to IT such as Hardware and Networking, Website Designing and Hosting, e-mail solutions, AMPS solutions etc.
- The Sonic Firewall has been deployed for handling and monitoring the load on the network for catering the secure network environment for academic and administrative processes.

Internet Provider : Railtel India Pvt ltd

Available band width : 100 Mbps

File Description	Document
Upload any additional information	<a href="#">View Document</a>

#### 4.3.2 Student - Computer ratio (Data for the latest completed academic year)

**Response:** 4.07

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Student – computer ratio	<a href="#">View Document</a>

#### 4.3.3 Bandwidth of internet connection in the Institution

**E. < 05 MBPS**

**D. 05 MBPS – 10 MBPS**

**C. 10 MBPS – 30 MBPS**

**B. 30 MBPS – 50 MBPS**

**Response:** A. 750 MBPS

File Description	Document
Upload any additional Information	<a href="#">View Document</a>
Details of available bandwidth of internet connection in the Institution	<a href="#">View Document</a>

## 4.4 Maintenance of Campus Infrastructure

**4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)****Response:** 47.6**4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year-wise during the last five years (INR in lakhs)**

2018-19	2017-18	2016-17	2015-16	2014-15
410.58	598.89	339.66	323.67	300.62

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	<a href="#">View Document</a>
Audited statements of accounts	<a href="#">View Document</a>

**4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.****Response:**

The institution has established systems and procedures for maintaining and utilizing physical, academic and support facilities to enhance the quality of teaching and learning. The institution has a Campus Maintenance System (CMS) where maintenance related issues are discussed and resolved.

**Utilization of Laboratory:**

- Laboratory sessions are conducted in accordance with the schedule as per the curriculum plan and each laboratory session is carried out under the supervision of the assigned faculty members and instructors.
- In each laboratory , a log book is maintained for utilization of laboratory equipments where each machine / instrument used by student is clearly mentioned in the log book so that the proper monitoring and usage of the equipment is assured.
- Before students start performing the experiment, laboratory instructor or the faculty in charge will deliver special instructions that are to be followed by the students in handling the equipment / instrument in every laboratory session.

**Maintenance of Laboratory:**

- The laboratory equipments are periodically inspected by a team of technicians / instructors for the accuracy and working conditions. Repair and replacements of equipments has been initiated as and when there is a break down. This is a common practice across all the departments.
- Cleaning of laboratory floors, machines, equipments and instruments etc., are taken care by both attenders and housekeeping workforce.
- A separate Stock Register for each laboratory is maintained and updated with regard to procurement and internal stock transfers. Every year, annual stock verification and inspection has been carried out by the various departments of the institution. The final stock verification and inspection report is submitted to the management for needfull action.

#### **Utilization of Library:**

The institution has a Library Committee which monitors the procurement and regular follow ups to ensure effective utilization of library and maintain all reference books, articles, text books, magazines, competitive examination books, journals, e-books, e-magazines and e-journals.

#### **Maintenance of Library:**

Using e-Granthalaya software maintenance of books, journals and periodicals, stacking, shelf arrangement, clearing, stock verification are carried out. Binding of documents and reconditioning of old books is also a part of the library maintenance.

#### **Sports Complex Utilization:**

- Physical Education Director along with one faculty from each department meet twice in a semester to discuss sports related issues such as planning and organizing events, training, shortlisting of sports students and necessary preparations for the sports activities.
- Students are allowed to practice before and after regular class hours.
- A separate log book is maintained to issue necessary sports materials for various sports and games.

#### **Maintenance of Sports Facilities:**

Maintenance of sports facilities includes preparation of pitch for cricket, ground for various other sports including athletics, kabbadi, kho-kho, volley ball, basket ball etc.

#### **Utilization of Computers:**

- All the departments in the institution are equipped with computer laboratories and these laboratories are used by the students in accordance with the schedule prepared by the particular department as per the curriculum.

#### **Maintenance of Computers:**

The Department of Computer Science and Engineering is responsible for maintaining the computer systems and other IT equipments such as Projectors, Printers, Photo Copier machines, Scanners, Servers, Bio-metric machines etc. A UPS backup facility is provided against power failures and other related faults to avoid any damage during power outages.

**Classroom Utilization:**

- As per the AICTE norms, each department is provided with the required number of classrooms for conducting class room activities.
- The classroom allocation in accordance with class time table is done by HOD of that particular department.

**Classroom Maintenance:**

- The podium, black board, benches and windows are cleaned everyday by housekeeping staff.
- Campus Maintenance System (CMS) committee meets once in a week and reviews the maintenance of the class rooms. The committee comprises atleast one member from each of the academic department whose responsibility is to identify any problem related to the infrastructure maintenance of the class rooms and conveyed to Vice Principal for necessary actions.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

## Criterion 5 - Student Support and Progression

### 5.1 Student Support

#### 5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

**Response:** 33.47

##### 5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
1250	1020	1009	721	493

#### File Description

#### Document

upload self attested letter with the list of students sanctioned scholarship

[View Document](#)

Upload any additional information Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years (Data Template)

[View Document](#)

#### 5.1.2 Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years

**Response:** 2.27

##### 5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution / non- government agencies year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
94	57	62	38	52

#### File Description

#### Document

Upload any additional information

[View Document](#)

Number of students benefited by scholarships and freeships institution / non- government agencies in last 5 years (Date Template)

[View Document](#)

**5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the following**

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

**E. None of the above**

**D. 1 of the above**

**C. 2 of the above**

**B. 3 of the above**

**Response:** A. All of the above

File Description	Document
Details of capability building and skills enhancement initiatives (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link to Institutional website	<a href="#">View Document</a>

**5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years**

**Response:** 73.4

**5.1.4.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
2149	2099	2045	1821	1610



File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 5.1.5 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

1. Implementation of guidelines of statutory/regulatory bodies
2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances
4. Timely redressal of the grievances through appropriate committees

E. None of the above

D. 1 of the above

C. 2 of the above

B. 3 of the above

**Response:** A. All of the above

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	<a href="#">View Document</a>
Details of student grievances including sexual harassment and ragging cases	<a href="#">View Document</a>

## 5.2 Student Progression

### 5.2.1 Average percentage of placement of outgoing students during the last five years

**Response:** 45.62

#### 5.2.1.1 Number of outgoing students placed year - wise during the last five years.

2018-19	2017-18	2016-17	2015-16	2014-15
391	295	240	211	204

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Self attested list of students placed	<a href="#">View Document</a>
Details of student placement during the last five years (Data Template)	<a href="#">View Document</a>

### 5.2.2 Average percentage of students progressing to higher education during the last five years

Response: 21.28

#### 5.2.2.1 Number of outgoing student progression to higher education during last five years

Response: 140

File Description	Document
Upload supporting data for student/alumni	<a href="#">View Document</a>
Details of student progression to higher education (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT/JAM/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)

Response: 100

#### 5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, etc.) year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
28	28	13	28	9

#### 5.2.3.2 Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government

**examinations) year-wise during last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
28	28	13	28	9

<b>File Description</b>	<b>Document</b>
Upload supporting data for the same	<a href="#">View Document</a>
Number of students qualifying in state/ national/ international level examinations during the last five years (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**5.3 Student Participation and Activities****5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) during the last five years.****Response:** 47**5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) year-wise during the last five years.**

2018-19	2017-18	2016-17	2015-16	2014-15
18	14	9	1	5

<b>File Description</b>	<b>Document</b>
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national/international level during the last five year	<a href="#">View Document</a>
e-copies of award letters and certificates	<a href="#">View Document</a>

**5.3.2 Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities following duly established processes and norms (student council, students representation on various bodies)**

**Response:**

The Institution believes in transparency in all its activities. It encourages the students' participation in administration, curricular co-curricular and extra-curricular activities, by involving them to be the part of many of the committees. The Students' Council plays a major role in achieving this objective.

As per the Vision and Mission of the institution, Sapthagiri Student Council is committed to provide facilities for holistic development to the students. Students are the prime movers in many activities in the campus. Students exhibit all-round development by involving themselves in various academic, co-curricular and extra-curricular activities which are organized by various committees/clubs/cells. Such representative bodies aim to promote co-operative culture among the students and to develop their leadership abilities.

Student Council comprises of Chairman, Conveners and members chosen from all the departments. Class representatives from each class are the academic members of the Student Council who are selected in front of their peers. The faculty and other staff members join together with this council to achieve the desired goal in a broader aspect. The Student Council members interact with various committees and are also encouraged to be the volunteers for various events. The council members for each activity drive the events in coordination with committee representatives.

The Student Council actively participates in all co-curricular and extracurricular activities responsibly with dedication and provides better output. The Council promote the involvement of students in organizing various Institution events / activities. Under the guidance of Student Council the students won the cash award of one lakh for sports & cultural achievement for the year 2017-18 by Visvesvaraya Technological University and stood 8th position in the university. Also, the student achievers in sports and cultural are felicitated with cash prize on regular intervals by the Institution to encourage the students.

Students take part in Quality improvement activities of the Institution administration as members of the following committees.

The Committees taking care of Co-Curricular Activities of the Institution having students' representatives are:

1. Add on course committee
2. STUTI-Career Guidance & Placement cell
3. Library Committee
4. Research & Development, Entrepreneurship committee and incubation centre

The committees taking care of Extra-Curricular Activities of the Institution having students' representatives are:

1. Sports Committee
2. Cultural Committee
3. HASIRU- Eco club
4. Health club
5. National Service Scheme
6. Grievance Redressal Committee
7. SAMARTHINI-Women Empowerment Committee

8. PRATHIRODHANA-Prevention of Sexual Harassment Cell
9. ASHRAYA-Parents Teachers Association
10. Canteen Committee
11. Photography club

Students of the Institution actively take part in co - curricular and extra - curricular events as members of various committees. Each department organizes activities at the department level which involves the students. Thus, almost all the students of the Institution are given opportunity to participate in various Administrative, Academic, Co-Curricular and Extra-Curricular Activities of the Institution.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

### 5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)

**Response:** 43.6

#### 5.3.3.1 Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
46	49	53	31	39

File Description	Document
Report of the event	<a href="#">View Document</a>
Number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions (Data Template)	<a href="#">View Document</a>

## 5.4 Alumni Engagement

### 5.4.1 There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

**Response:**

The Higher Education Institution should have a strong network of its Alumni to strengthen mainly Industry-Academia bonding. The Institution is having an active group of its Alumni. A registered Alumni

Association called, Sapthagiri College of Engineering Alumni Association (SCEAA) was constituted in the year 2011. The association is registered under the Karnataka Societies registration act, 1960 with registration no. **DRB-N/SOR/89/2011-2012**, Dated: **28/06/2011**, Bangalore, Karnataka.

The Institution has an excellent Alumni association with alumni excelling in their respective field. The Institution has produced leading technologists and bureaucrats since its inception, which is very much evident from the fact that, the alumni serving in Indian Administrative Service, Indian Air Force, and as CEOs of established companies. Many of the Alumni are also pursuing Master Degree from reputed academic institutions in India and abroad. Alumni have brought laurels to the institution by securing ranks and GOLD medals from the Visvesvaraya Technological University (VTU).

The contribution of the Alumni Association to the development of the Institution is plenty. The Association acts as a platform, to connects all the alumni, who are now entrepreneurs, managers, world class engineers and educationists themselves. The alumni association helps in building a network of the alumni and helps in being in touch with the corporate world. The association helps in holding interactive sessions to motivate current students about the employability and educational opportunities abroad by arranging talks/technical lectures/workshops by experts. They share their opinions in social networks, blogs and forums. The Association aims to bridge the institution and the alumni by organizing regular meets and encourages alumni to contribute to the growth of the institution.

The alumni also assist the final year students of various streams of engineering to get their projects, placements and Internship .They contribute to develop interpersonal skills and managerial skills. The Association helps in improvising the curriculum by their valuable feedback about the current trends and latest development in the Industry and contribute indirectly to increase the employability index.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### 5.4.2 Alumni contribution during the last five years (INR in lakhs)

**E. <1 Lakhs**

**D. 1 Lakhs - 3 Lakhs**

**C. 3 Lakhs - 4 Lakhs**

**B. 4 Lakhs - 5 Lakhs**

**Response: A. ? 5 Lakhs**

File Description	Document
Upload any additional information	<a href="#">View Document</a>

## Criterion 6 - Governance, Leadership and Management

### 6.1 Institutional Vision and Leadership

#### 6.1.1 The governance of the institution is reflective of and in tune with the vision and mission of the institution

##### Response:

The governance of the institution is highly enabling and empowering. The systems are put in place in such a way that the governance promotes the realization of the mission and the vision with which the institution was established.

##### Mission of the Institution:

- **To implement path breaking student centric education methods.**
- **To augment talent, nurture teamwork to transform, to develop individual as responsible citizen.**
  - To educate the students and faculties about entrepreneurship to meet vibrant requirements of the society.
  - Strengthen Industry-Institute Interaction for knowledge sharing.

##### Vision of the Institution

To be the best institution imparting quality engineering education to deal with community needs through learning and performance

Sapthagiri College of Engineering, Bangalore was established by Srinivasa Charitable Trust in the year 2001 to provide accessible and empowering education in Engineering in a rural locale of Chikkasandra Hesaraghatta Road, Bengaluru. In a lush green campus, the Institution environs promote academic excellence and holistic growth.

In tune with its mission, the Institution is committed to provide quality education to transform the students into excellence professionals through competence building and molding them in to good citizens. Besides, the vision dictates the institution to mould the students into capable professionals who can fit the job profile in the global context and the institution is committed to provide such an enabling environment.

The College Management has constituted the Governing Council and the members of both the Management and Governing Council (GC) are the Chairman and the Executive Director. The Governing Council performs its functions by identifying the needs of the College, set broad direction and provide vision through Strategic Perspective Plan (SPP). The Management provides all the necessary support systems including infrastructure facilities, qualified teachers, investment in people, scholarships, learning facilities, governance policies to enable the stakeholders to achieve the mission and the vision of the Institution. The IQAC of the College prepares the SPP after concerted discussions by the stakeholders. The IQAC mandates the Departments as well as various Cells and Clubs to prepare their SPP and then consolidates them to prepare the SPP of the College. The Governing Council in turn discusses with the

Management and prepares the Long Term Plans which include creating ambience for research, promoting entrepreneurship, achieving industry interface, networking with the society, Quality Assurance through NAAC, NBA and other accreditations. Committee system is in place besides the e-governance initiatives. Grievance Redressal systems are in place to ensure stakeholder satisfaction. The GC also develops, monitors and reviews the deployment strategies and ensures the achievement of the objectives

The College Council (CC) has authority to consider and advice on operational issues when required. CC also involves actively in vision and mission setting. Principal, Heads of all Departments, two elected members each from faculty, administrative Assistant, and Librarian are members of the CC. The College Council regularly meets to discuss various issues related fulfilling the vision and mission.

The Management, Governing Council, College Council and IQAC collectively take necessary steps to accomplish the vision and mission of the Institution.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

### **6.1.2 The effective leadership is visible in various institutional practices such as decentralization and participative management**

#### **Response:**

The Institution supports a trend of decentralized governance system with proper and well defined inter-relationships. The Strategic Perspective Plan with the necessary budgetary provisions are prepared by the IQAC in consultation with all the Departments and Cells/Clubs and the same are submitted to the GC through the CC. The requirements of the Library, Sports Center, and Hostels are taken care of by the IQAC. The Principal plays a pivotal role in bridging the network between the Management, the GC, CC and other stakeholders. Requirements like aesthetic Class rooms, Tutorials, Seminar halls, Laboratory & equipment, Library infrastructure, functional furniture and fittings for e-learning, Safety and Security management, Water facility and health care, developing sports (indoor/outdoor) facilities, Canteen, additional Hostels facility for boys & girls are all taken care of. Principal is the Member of the GC along with a staff member and administrative representative. The Principal is also the Chairperson of the CC. Thus he participates in the Management at various levels. IQAC in Saphthagiri College of Engineering is a significant academic and administrative body which is responsible for quality achievement, sustenance and enhancement in all the domains of the institution. It plans and monitors different activities which are important to maintain and improve the quality of education imparted, and also well defined in the quality policy of the institution. It is the prime responsibility of IQAC to initiate, plan and supervise various activities which are necessary to increase the quality of the education imparted in the Institution. The IQAC meets periodically to review the progress of the institution and its quality enhancement. To build and ensure a quality culture aimed at all round excellence in the educational practices, processes and methods, IQAC involves in vision and mission preparation of the institution. The Principal is also the Chairperson of the IQAC, which prepares the Roadmap for the development of the institution through the SPP. The Principal with his team is free to prepare the plans and deploy them in a transparent manner with systemic empowerment strategies



Once the Strategic Perspective Plan is approved by the GC, the Principal deploys and reviews the plan with the help of various Committees/Cells/Clubs where teachers, non-teachers and students are members. The College also invites the Alumni through the Alumni Association and interacts with them on various issues besides they are also members of a few committees. The PTA is highly functional and the views of parents as important stakeholders are kept in mind while preparing the SPP. Hence the Management, the GC, the Principal, teachers, non-teachers, students, parents and the Alumni participate in the governance of the institution. They all make the governance, transparent, effective, efficient and accountable. There are various Committees and Cells where teachers act as Conveners and members besides student representatives and the alumni representative are also there in those committees. The Conveners of various Committees deploy the approved SPP as per the laid out procedure, thus systemic empowerment is provided besides ensuring transparency and participative management.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

## 6.2 Strategy Development and Deployment

### 6.2.1 The institutional Strategic / Perspective plan is effectively deployed

#### Response:

A perspective plan wedded to strategy for development is very much essential for sustainable growth of any organization. This provides a sense of direction for the growth of the Institution. Sapthagiri College of Engineering is very much keen in providing excellent ambience for learning, lush green and eco-friendly campus. The organization is committed to provide very good infrastructure, disciplined campus, experienced and qualified faculty, placement training programs to meet the industry needs and proctoring system to counsel the students for both academic and non-academic issues.

The Management of the Institution always aspires for all round quality education for its stake holders. Hence at regular intervals the Management invites eminent personalities from the Industry, Academia for a brain storming session and finalizes the long term goals of the College.

#### The Long term Goals:

- To strengthen Industry Academia relations which in turn help the students in increased experiential learning by having Centers of Excellence in the Campus
- Incubation center for all departments.
- To orient faculty towards research
- To attain 100% Placements.
- To attain NAAC accreditation with A++
- To attain NBA accreditation for all departments.

#### Strategic Perspective Plan

IQAC prepares SPP and also the Budget by involving all the stakeholders of the Institution, at the

beginning of each semester keeping in view of University Academic Calendar and Institutional Academic Calendar and gets the approval of the Governing Council.

The Principal being the Chairman of IQAC, takes all the necessary steps to deploy the approved SPP. Heads of the Departments effectively conduct all academic as well as non-academic activities, as per the plan at the departmental level. Co-curricular, Extra-curricular, Outreach Programs as per the SPP are effectively deployed by various committees. Deployment of SPPs by the Departments, Committees/Cells/Clubs, is monitored through the Action Taken Report and the Annual Report submitted at the end of the Academic Year. A careful analysis is made of all the reports to decide further course of action.

### **Activity Successfully implemented: Stuti – Career Guidance & Placement Cell**

Sapthagiri College of Engineering, Bangalore, as per its vision and mission is committed to provide professionalism and transform its students into highly empowered human resource with global competence. In this direction, it has established Career Guidance & Placement Cell named as “**Stuti**”, which supplements and complements the gaps in the curriculum. It provides a variety of skills and builds competence in its graduates through various interventional mechanisms. It trains students in inter personal & intra-personal skills, leadership skills, coordination skills, job skills and skills of good citizenry. Through systematic training, career counseling and training for competitive examinations, Stuti is doing its best to place the graduates in the best Institutions and Organizations.

Stuti has maintained good and strong relationship with the industries across the country and as a result, it has built up an impressive placement record. Stuti is constantly in touch with prospective employers to ensure that they consider the Institution students whenever there are job opportunities. On campus interviews and career fairs are regular features at the Institution.

<b>File Description</b>	<b>Document</b>
strategic Plan and deployment documents on the website	<a href="#">View Document</a>

### **6.2.2 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.**

#### **Response:**

The organization has a well-structured administrative setup with Governing Council as the highest decision making body, which is financial, administrative and quality systems policy making body under which the entire college functions are being organized and controlled.

The Governing Council is headed by the Chairman of the Srinivasa Education Trust, Sri. G Dayanand. The GC also consists of eminent persons from the field of administration, academics and industry. There are two nominated members of the AICTE/VTU/DTE etc. It also consists of a senior professor of SCE as its

member. Principal will be the Member Secretary of the Governing Council. All these members are included in the Governing Council by proper resolutions.

The Principal has the executive powers to administer the academic, development, and other functions based on the guidelines prescribed by him. Vice-principal assist the principal on all academic matters

The IQAC submits not only the Strategic Perspective Plan to the GC, but also submits various proposals for academics, administration and policy formulations. All proposals after ratification by the GC, are deployed and periodically reviewed by the IQAC. Various Committees in the College independently deploy their plans and report to the IQAC with regard to Quality Assurance.

There are 10 academic departments directly reporting to the Principal as line management organs. Each department is headed by Departmental Head below whom all laboratories and faculty are functioning. There are 39 other functional bodies and committees.

### **Functions of Various Bodies:**

To provide policy framework and direction for the functioning of the institution, 39 committees play a vital role, which evaluate, monitor and recommend in respect of various matters related to Institutional Capacity, Review, Design and Education Effectiveness, Research, Examination and Evaluation etc. for sustaining Institutional Capacity and Educational Effectiveness. These committees meet many times in an academic year depending on the college issues.

### **Administrative Setup**

For Smooth conduction of the administrative procedures SCE has Admission Section, Establishment Section, Exam Section & Accounts Section, headed by Office Superintendent who works under the Principal and the organogram of Administrative setup is given as link.

#### **1. Service rules, Procedure, Recruitment and Promotional policies**

Service rules, policies and procedures for the institution are in place and documented. They are made known to all newly recruited staff members through an induction program

#### **2. Recruitment Policies:**

The process of recruitment includes:

- Invitations of application ( Paper advertisement , through references etc)
- Preliminary assessment of the suitability of the candidates(review of resume received)
- Invitation to applicants for a campus visit for the interview
- Assessment by Selection Committee and recommendation to the management
- Final decision on recruitment by Management

#### **3. Promotional Policies:**

- All promotions are by Selection Committee only.
- Eligible candidates shall be considered for promotion on the recommendation of the selection committee.
- Number of posts at various levels in each discipline shall be as deemed necessary by the college authorities.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

### 6.2.3 Implementation of e-governance in areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

E. None of the above

D. 1 of the above

C. 2 of the above

B. 3 of the above

**Response:** A. All of the above

File Description	Document
Screen shots of user interfaces	<a href="#">View Document</a>
ERP (Enterprise Resource Planning) Document	<a href="#">View Document</a>
Details of implementation of e-governance in areas of operation, Administration etc	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 6.3 Faculty Empowerment Strategies

### 6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

**Response:**

The management of the Institution is committed to provide quality embedded human resource in place and takes care of the welfare of its staff. The teaching and non-teaching staff are regularly trained to add value

to the worth of the human resources. Regular FDPs are conducted for both the teaching and non-teaching staff. Conveyance facilities and canteen facilities are provided at a nominal/subsidized cost.

The following are a few of the welfare measures employed by the Management. The first and the major welfare measure is being the use of the facility available at the Sapthagiri Hospital. All the employees both Teaching, non-Teaching and staff including the Students are given free consultation for treatment and are covered under Group Insurance.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

### 6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

**Response:** 12.17

#### 6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
50	22	14	2	7

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Details of teachers provided with financial support to attend conference, workshops etc during the last five years	<a href="#">View Document</a>

### 6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

**Response:** 19.4

#### 6.3.3.1 Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
19	20	20	21	17

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff	<a href="#">View Document</a>

#### 6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course ).

**Response:** 71.56

##### 6.3.4.1 Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
135	128	126	88	67

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Details of teachers attending professional development programmes during the last five years	<a href="#">View Document</a>

#### 6.3.5 Institutions Performance Appraisal System for teaching and non-teaching staff

**Response:**

The Institution believes in empowered human resource for quality assurance. The Management believes in investment in people and thus continuously helps the institution in conducting FDP and training programs to keep the teachers updated and the non-teaching staff relevant to the context. However, Appraisal is an important and critical issue to empower the staff through conducting training and empowerment. In this direction, the Institution has a well laid out Performance Appraisal System in place.

The Appraisal system is initiated with the self appraisal and the review of the same by the HOD and the Principal. The self-appraisal is created with a view to evaluate a teacher with regard to various competencies like teaching, research, participation in Curricular and Co-Curricular and extra-curricular activities.

Similarly self appraisal for non teaching staff viz., Administrative Staff, Lab Instructors, Drivers and Canteen staff are taken periodically to improve the quality.

However from 2018-19 onwards, individual faculty sets his/her own goal at the beginning of the academic year in a format given by IQAC and the goal achieved is collected at the end of academic year with the comments of HODs for further action to be taken by the Principal. 2017-18 onwards students' feedback for non teaching staff like Administrative Staff, Bus Drivers, Lab Instructors and also for Canteen have been taken and the final report is sent to Principal for further action.

Once the feedback is taken, it is analyzed and sent to respective HOD's for their comments. After that it will be brought to the notice of the Principal. Generally the faculties, whose overall feedback is less than 70%, are advised to attend FDPs either organized at the college level or outside. Also they are advised to interact with senior faculty. Those whose feedback is between 70% to 95% are counseled to improve on the questions in which they are lagging and those above 95% are appreciated.

Similar procedure is followed for other staff the Institution.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

## 6.4 Financial Management and Resource Mobilization

### 6.4.1 Institution conducts internal and external financial audits regularly

#### Response:

The institution conducts effective internal and external financial audits regularly.

#### 1.Internal Audit

Institution has provided sufficient financial resources for all the departments and this has enabled to sustain and achieve the institutional objective. Based on the requirement, heads of department prepare the annual budget proposal and submit to the Principal. Accordingly, central office reviews the budget proposals and approves it. After that purchase will be made according to the budget proposal submitted by the respective department heads. If any deviation occurs, Principal will address the issue and give justification and will be followed by the approval. This procedure helps in avoiding unnecessary expenses and optimum utilization of funds are possible.

The internal audit is done by in-house team and will carry out the accounting procedure of internal control of finance on day to day basis. Since the institution follows a good system of internal control like calling quotations, comparison of rates, preparation of purchase order for each and every requirement needed, preparation of wage sheets, all the employee benefits are vouched like conducting and participating in seminars, conferences, faculty development programs etc. No expenses are incurred without proper approval or sanction by the head of the institution or head of the various departments.

#### 2.External Audit

The institution also has external audit mechanism carried out by M/s S.R. & M.R. ASSOCIATES,

Chartered Accountants with FIRM REGN NO: 0080948. This statutory auditor audits the annual account and examines on a test basis evidences like fees collection with approved list of students with KEA to VTU, on such verification any discrepancies will be discussed and sorted with the management. Once all financial transactions are accounted, based on those financial statements like balance sheet and Income and Expenditure Statement is prepared for the financial year end. Such financial statements will be signed and approved by Auditor and Management. Based on the audited financial statements, auditor will issue final Audit Report.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

#### 6.4.2 Funds / Grants received from non-government bodies, individuals, philanthropers during the last five years (not covered in Criterion III)

**Response:** 340

6.4.2.1 Total Grants received from non-government bodies, individuals, Philanthropers year wise during the last five years (INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
55	28	77	101	79

File Description	Document
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Annual statements of accounts	<a href="#">View Document</a>

#### 6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

**Response:**

##### **Mobilization of Funds:**

Most of the funds required by the institution are being met out of internal generation from fees collected. Apart from this, the institution also has allocated finance function to one of the managing committee members who will look after the procurement and deployment of the funds.

The Karnataka government regulates fee to be collected from the students for the institutions are fixed by



Directorate of Technical Education (DTE)/AICTE. The tuition fee fixed for the institution depends on the infrastructure available, the faculty strength, and sanctioned students strength by VTU Belagavi for individual branches. The DTE takes the data from respective colleges every year and conducts inspection to finalize the student's fees for undergraduate and post graduate courses

The funds are granted through the collection of tuition fee as guided by the DTE. The Tuition fees is collected annually. The other sources of income are:

1. Transport fees collected from students.
2. Admission fees.
3. Application Fees.
4. Examination Fees.
5. TCS (For Conducting COMEDK at SCE)

The Institution lends its infrastructure for external agencies like TCS for conducting exams e.g. COMEDK, GATE, CAT.

The tuition fees for economically weak students and students of backward and SC/ST are financed through scholarships from Karnataka state government. The eligible students apply for scholarship through college and necessary assistance for applying the same is provided by the college.

#### **Strategies for optimal utilization of financial resources:**

Strategies for optimal utilization of financial resources: The College also rents its premises, auditoriums, playgrounds for activities like short film shooting, feature film shooting, sports meet, audio & video releases of films. Our hostels are also used to accommodate students who come to attend sports meet and Conferences. The Sports Bodies pay rent for utilizing our hostel facilities. The proofs of funds received as rents and sponsorships are provided in additional information which is included in Other Income (Note Number 17 in balance sheet).

File Description	Document
Upload any additional information	<a href="#">View Document</a>

## **6.5 Internal Quality Assurance System**

### **6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes**

#### **Response:**

IQAC of the Institution is committed to provide quality in all the aspects of the Institution. It plans

strategies for quality achievement, sustenance, and enhancement. IQAC has formulated various procedures for meeting such requirements. It draws strategies through Curricular Aspects, TLP, Research practice, Community engagement, HR Management, Industry Interaction, Placements, Infrastructure Facilities, Learning Resources, Student Support Progression, Governance, Leadership & Management operations activities. IQAC has mechanisms for ensuring implementation of all the policies, review and evaluation.

**IQAC formulated strategies and processes for achieving quality objectives. Some of the strategies are:**

- Curriculum planning and implementation
- Conducting audit for improving the quality.
- To identify slow learners and advanced learners and designing effective steps for their holistic development.
- To make the Students of the Institution employable, many steps are taken by arranging various Training Programs, Certification Courses. Technical Talks by Experts, Industry Visits etc. Thus Ensuring overall development of the students and make them as successful persons in the Society 'fit for purpose'
- Establishment of research centers and Incubation center to encourage in house research.

**Some of the best practices followed are:**

#### **Best Practice -1: e-Governance**

Being the Technical Institution, the Institution has introduced many of the e-Governance modules in Practice for smooth day to day operations in the following area

1. Administration
2. Admissions
3. Examinations
4. Finance & Accounts.

Institution is using legal softwares like Tally, Campus Management System : saphthagiri.org.in, Concept, Sage and MS Office. College has developed its own ERP Software by in house staff for examination and to maintain staff and student database.

**OUTCOME:**

1. Timely communication to the Parents regarding results, attendance and overall performance of their wards.
2. Robust feedback system which enables steps to be taken for quality improvement
3. Good attendance Monitoring System for employees

#### **Best Practice 2: INTERNATIONAL ORGANIZATION FOR STANDARDIZATION (ISO):**

The Institution has received the ISO certification. The management in the Institution focuses on quality, in day-to-day functioning of the Institution as well as the Environmental Management. To achieve this objective, the management decided to obtain ISO certification - Integrated Management System (IMS), combining the Quality Management System (QMS) with the ISO standard 9001:2015 and Environmental

Management System (EMS) with the ISO standard 14001:2015. The thorough documentation procedure for implementing IMS with ISO standards 9001:2015 and 14001:2015 was started in draft form in the year 2018 and with proper scrutiny the system manual, procedures, documents and records were finalized and approved for the implementation of IMS from August 2019. With the ISO standard 9001, the Institution is now accommodated with systematic approach for meeting quality objectives and provide consistent quality, while with ISO standard 14001, the Institution is provided with a systematic approach for measuring and improving their environmental impact. Being the leading certification agency in ISO standards, the TÜV NORD group has assessed the IMS in the Institution and certified as an ISO certified Institution.

#### OUTCOME:

1. Campus has become self-driven in terms of standardization of the procedures to be followed.
2. Excellent File Management is put into practice.
3. All departments started following standard procedures

File Description	Document
Upload any additional information	<a href="#">View Document</a>

**6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities ( For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives )**

#### Response:

IQAC which is functioning since 2014 with the intention of quality improvement strictly adheres to its purpose by actively involving in holistic all-round development of the college. Committee consists of senior faculty as its members along with student representatives, alumni representatives and also representatives from industry, management etc. Chairperson being the Principal and the coordinator is a senior professor. IQAC takes care of quality improvements through 39 committees listed in 6.1.2. Even though syllabus is designed by VTU, the Institution practices a unique system of delivery. All the cross cutting issues like Gender Sensitivity, Equality and many other social issues are addressed by designing the curriculum in Curriculum Planning & Delivery (CPD). IQAC always makes sure that all these cross cutting issues are included in our curriculum. Many advanced ICT Tools are introduced in CPD to ignite the thought process among the students. The teaching learning process of the College is audited and improved mainly through the two of the committees viz, Feedback Committee and Academic & Administrative Audit Committee. These committees after collecting the data at regular intervals in an academic year, carefully analyze them and report the same to IQAC. All the other committees contribute in one or the other way in supporting the methodologies like cross cutting issues which are included in the curriculum. The Add on/ Value added Course Committee and the Department level Academic Council and FDP Cell, R&D Committee and Career Guidance Committee Stuti, further enhance the Teaching Learning Process by arranging Certificate Courses, Bridge Courses, Workshops, Talks by industry experts, industry

visits, mini projects and major projects etc.

IQAC has created homely atmosphere to the student community through Proctoring Committee which has identified mentors to each of the students at the institution. The mentors bridge the gap between Institution and the Parent Community. All of the students' problems are addressed by Grievance Redressal Committee, Prevention of Sexual Harassment Committee, and Women's Empowerment Committee. The Anti ragging Committee takes all the steps to make sure that the Institution a ragging free Campus. IQAC believes in "Healthy Mind in a Healthy Body" and hence through Health Club, it creates awareness among the students about health and also conducts the Yoga Activities through Health Club. It also enthuses the development of hidden talents in the students through its Cultural Club, Photography Club. Thus IQAC provides all the facilities for holistic all round development of the student and make them "Fit for Purpose"

Continuous evaluation of the students is carried out through formative assessment and summative assessment. The formative assessment is done by the teachers who are handling the courses and is recorded in the proctor book, which is taken care by the Proctoring Committee and Summative Assessment is done by conducting three internal tests, Quizzes etc., which is monitored by Examination Committee.

With suggestions from IQAC, the Institution focuses on quality and this is visible in incremental improvements made for the preceding five years which is evident from the table in the link.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

### 6.5.3 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements
2. Collaborative quality initiatives with other institution(s)
3. Participation in NIRF
4. any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

E. None of the above

D. 1 of the above

C. 2 of the above

B. 3 of the above

**Response:** B. 3 of the above

<b>File Description</b>	<b>Document</b>
Upload e-copies of the accreditations and certifications	<a href="#">View Document</a>
Upload details of Quality assurance initiatives of the institution	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>

NAAC

## Criterion 7 - Institutional Values and Best Practices

### 7.1 Institutional Values and Social Responsibilities

#### 7.1.1 Measures initiated by the Institution for the promotion of gender equity during the last five years.

##### Response:

##### a) Safety and Security:

Sapthagiri College of Engineering (SCE) is highly committed to provide a safe and secured environment for all the stakeholders to function in an environment which is free from oppression, threat, and abuse or ragging. The Institute is highly committed to provide a zero-tolerance zone for ragging, sexual abuse and ensure fundamental rights for all its stakeholders.

Institute has taken many steps to ensure safety and security for all the stakeholders through the following initiatives:

1. Institute has provided trained security personnel who are highly committed.
2. Wearing Identity (ID) cards is mandatory for all the staff and students. Without a valid ID card, no one is allowed to enter the campus.
3. A 24 x 7 CCTV monitoring is ensured in the campus and hostels, so that no untoward incident happens.
4. Institute has a highly functional Anti-Ragging Cell which conducts many awareness programs and drives. So that every stakeholder is made abreast of the ragging as a menace and the punishment clauses that are imminent in case of violation.
5. The Prevention of Sexual Harassment Cell called "PRATHIRODHANA" creates an environment that has zero-tolerance for sexual harassment. The cell conducts various sensitivity programs alongside taking many steps as per Visakha guidelines.
6. A laboratory manual has been prepared for each laboratory course to describe Do's and Dont's to ensure a secure and safe laboratory space for the students as well as the teachers.
7. Fire Extinguishers and First - Aid kits have been installed at prominent places to ensure the safety of all.
8. Breath analyser has been provided to maintain alcoholic-free campus.
9. The Women Empowerment Cell called "SAMARTHINI" has organized various programs to create gender sensitivity and gender equity, viz. self-defense training programs, expert talks, and various activities.
10. Institute has conducted an awareness program named, "Road Jatha" to create awareness among the society about the traffic rules.
11. The Napkin vending machine and Destroyers (incinerator) are installed in the girls hostel and in the campus for ensuring better health and hygiene; besides, environmental concerns are being taken care of.

##### b) Counseling:

Institute has Student's Counseling Cell, called, "PARIVARTHANA" to take care of the psychological well-being of the students. As a vulnerable adult, the students need personal, psychological and academic

counseling to achieve and excel greater heights in academic and non-academic activities. In this regard, Parivarthana has become operational with 15 trained counsellors and a Psychiatrist visiting Institution every Saturday between 10 am and 12 noon. Counseling facilities are provided to all students including those who seek Counseling related to gender issues. Among the 15 trained counsellors, there are 12 women counsellors who are empathetic towards gender related issues especially to females and take care of them.

**c) Common Room:**

Institute has separate common rooms available for both boys and girls, which consist of cots, drinking water facility, stretcher, wheel-chair, daily newspaper, magazines and first aid box for emergency and safety purpose.

File Description	Document
Link for specific facilities provided for women in terms of: a. Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	<a href="#">View Document</a>
Link for annual gender sensitization action plan	<a href="#">View Document</a>

**7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures**

- 1.Solar energy
- 2.Biogas plant
- 3.Wheeling to the Grid
- 4.Sensor-based energy conservation
- 5.Use of LED bulbs/ power efficient equipment

E. None of the above

D. 1 of the above

C. 2 of the above

B. 3 of the above

**Response:** A. 4 or All of the above

File Description	Document
Geotagged Photographs	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

### 7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- **Solid waste management**
- **Liquid waste management**
- **Biomedical waste management**
- **E-waste management**
- **Waste recycling system**
- **Hazardous chemicals and radioactive waste management**

#### **Response:**

#### **Solid waste management:**

- Solid waste is collected separately as dry and wet waste at the source.
- The dustbins are kept at the earmarked places in each floor for an effective collection of solid waste and to maintain a good hygienic environment in the campus.
- Cleaning or purging of the dustbins is being done periodically every day.
- All degradable waste which is produced in the campus is stabilized by 400 litres **composter**. The manure collected from composter is used for campus greeneries.
- The debris generated from the incinerator is collected and safely disposed.
- Non-biodegradable waste generated in the campus is collected and safely disposed through municipal corporation.
- Recycling waste like, plastics, newspapers, etc. are given to the vendor.

#### **Liquid Waste management**

- Institute has a systematic sewage network throughout.
- The sewage water is made to pass through different sewer lines and treated through primary and secondary treatment, at 80 KLD capacity Sewage Treatment Plant (STP).

#### **E-Waste Management**

- Institute has a systematic protocol to manage the e-waste.
- At the end of useful life, the computer peripherals are collected from different locations of the campus. In addition CDs, handsets, batteries, chargers, USB cables, and earphones are collected in separate bins as e-waste and disposed through certified vendor.
- Institute has adopted the following steps to reduce the generation of e-waste.
  - Usages of CDs and CD drives have been minimised.
  - Usage of temporary storage devices such as pen drives is limited.

#### **Hazardous chemical waste management**

Hazardous chemical waste which is generated in the laboratories is collected at a specific location and transferred to a collection tank for safe disposal by an authorized vendor.



File Description	Document
Any other relevant information	<a href="#">View Document</a>
Link for Relevant documents like agreements/MoUs with Government and other approved agencies	<a href="#">View Document</a>
Link for Geotagged photographs of the facilities	<a href="#">View Document</a>

#### 7.1.4 Water conservation facilities available in the Institution:

1. Rain water harvesting
2. Borewell /Open well recharge
3. Construction of tanks and bunds
4. Waste water recycling
5. Maintenance of water bodies and distribution system in the campus

E. None of the above

D.1 of the above

C. 2 of the above

B. 3 of the above

**Response:** A. Any 4 or all of the above

File Description	Document
Geotagged photographs / videos of the facilities	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

#### 7.1.5 Green campus initiatives include:

1. Restricted entry of automobiles
2. Use of Bicycles/ Battery powered vehicles
3. Pedestrian Friendly pathways
4. Ban on use of Plastic
5. Landscaping with trees and plants

E. None of the above

D. 1 of the above

C. 2 of the above

**B. 3 of the above**

**Response:** Any 4 or All of the above

<b>File Description</b>	<b>Document</b>
Various policy documents / decisions circulated for implementation	<a href="#">View Document</a>
Geotagged photos / videos of the facilities	<a href="#">View Document</a>
Any other relevant documents	<a href="#">View Document</a>

### **7.1.6 Quality audits on environment and energy regularly undertaken by the Institution**

- 1.Green audit**
- 2.Energy audit**
- 3.Environment audit**
- 4.Clean and green campus recognitions / awards**
- 5.Beyond the campus environmental promotion activities**

**E. None of the above**

**D.1 of the above**

**C. 2 of the above**

**B. 3 of the above**

**Response:** A. Any 4 or all of the above

<b>File Description</b>	<b>Document</b>
Reports on environment and energy audits submitted by the auditing agency	<a href="#">View Document</a>
Certification by the auditing agency	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

### **7.1.7 The Institution has disabled-friendly, barrier free environment**

- 1.Built environment with ramps/lifts for easy access to classrooms.**
- 2.Disabled-friendly washrooms**
- 3.Signage including tactile path, lights, display boards and signposts**
- 4.Assistive technology and facilities for persons with disabilities ( Divyangjan) accessible**

**website, screen-reading software, mechanized equipment**  
**5.Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading**

**E. None of the above**

**D.1 of the above**

**C. 2 of the above**

**B. 3 of the above**

**Response:** A. Any 4 or all of the above

<b>File Description</b>	<b>Document</b>
Policy documents and information brochures on the support to be provided	<a href="#">View Document</a>
Geotagged photographs / videos of the facilities	<a href="#">View Document</a>
Details of the Software procured for providing the assistance	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

**7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).**

**Response:**

The Institution as “Sapthagiri family” shows immense pleasure and responsibility in the aspect of tolerance and harmony in the fields of cultural, regional, linguistic, communal socio-economic and other diversities. With the precise inputs of Management and Principal, Institution is conducting initiatives within and outside the campus to achieve the inclusive environment for all the students and staff. Institute always focuses on a peaceful, healthy and comfortable campus for all the students. By conducting such events, the students learn experience and cultivate social responsibility, and inculcate the interpersonal and intrapersonal skills through participation.

The community-oriented service committees / clubs like Cultural Committee, Eco Club (HASIRU), Community Club, Institutional Social Responsibility (ISR) Committee, Human Rights Club and Health Club conduct many events to students. These events are to sensitize our students towards culture, social responsibility, and overall personality development. The main theme of these clubs / committees is to follow the personification of democratic living, respecting ours’ and others’ culture and uphold the need for self-less service. Cultural club is one of the most important clubs, where, the students will learn to understand the importance of respecting the culture of each individual. This club conducts many events to extract and expose the best hidden skills in the students. Few of the events are, Madhurya (singing

competition), Okuli (rangoli, painting, face painting, sketching), Chanakya (quiz competition), and Drishyam (skit, drama, mime). In these events, the students involve and learn things related to culture. A healthy mandate is made in the campus for each student to participate at least in any one of the events. SANKALP is a brand cultural and college fest of the institution which will be held for two days in the campus every year. Famous personalities will be invited to this event to address the students in such way that, they get inspired and learn the importance of culture, human values, and ethics. In this mega event, all the students actively participate and enjoy the family environment of SCE. Students from different community, religion, culture, place, and language are equally and happily participate in this event and enjoy the event. Kannada Rajyotsava is another linguistic event in SCE, which will be held every year. In this event, the students from various parts of the country get equal opportunities to learn Kannada as language and also exhibit multi - linguistic culture. To provide an inclusive environment i.e., communal, socio-economic etc., and to feel responsible towards protecting nature, the Institute facilitates creating healthy and eco-friendly environment. Various other events from the committees / clubs is organized in the Institute to achieve unity in diversity such as, Constitutional Day, International Human rights Day, Ambedkar Jayanthi”, “Drive on Tobacco ill effects”, “Awareness on Dengue and Malaria”, “World Food Day” and “Campus cleaning activity”.

File Description	Document
Link for supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View Document</a>

### **7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).**

#### **Response:**

The Institution organizes various activities for sensitization of the students and employees for inculcating values, rights, duties and responsibilities for being responsible citizens of India.

The institution celebrates Sadbhavana Diwas in the month of August every year in remembrance of the youngest Prime Minister of India, Rajiv Gandhi. The theme of Sadbhavana is to promote national integration and communal harmony among students of all religion and languages. On this day, the students and staff assemble for the Sadbhavana Diwas pledge.

In India Rashtriya Ekta Diwas, also known as National Unity Day is observed on 31st October earmarking the birth anniversary of Sardar Vallabhbhai Patel, who worked hard in keeping India united. Institute celebrates this day, on which, the students and staff assemble to take the Rashtriya Ekta Diwas pledge.

Institution conducts different competitions for students like short film competition on freedom fighters, to make the students aware about sacrifices and thoughts of freedom fighters. Short film competition on President and Prime Minister of India is to make the students to understand about the values, roles and authority of them.

Institution conducts speech competition on various topics such as, Human Rights and Responsibilities,

National Integration of India to create awareness among students about different human rights and responsibilities of Indian citizen and national integration to protect fundamental rights, which will create an opportunity to live together in peace and prosperity. Speech and essay competition are being conducted on World Environment Day on various issues related to global warming to stimulate awareness about significance of a healthy environment. The topics for this competition will be selected by considering the theme of World Environment Day.

Institution organizes Swachh Bharath Abhiyan to create awareness about cleanliness in and around the campus. In addition, the institution also organizes blood donation camps to encourage students to contribute for public health.

Institution celebrates the National Day of India, such as Independence Day and Republic Day, every year. These events begin with hoisting of the national flag by the Principal, Staff and Students. On this day, speech and essay writing competitions about freedom fighters will be organized for the students.

File Description	Document
Link for details of activities that inculcate values necessary to render students in to responsible citizens	<a href="#">View Document</a>

**7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.**

- 1. The Code of Conduct is displayed on the website**
- 2. There is a committee to monitor adherence to the Code of Conduct**
- 3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff**
- 4. Annual awareness programmes on Code of Conduct are organized**

**E. None of the above**

**D. 1 of the above**

**C. 2 of the above**

**B. 3 of the above**

**Response:** A. All of the above

File Description	Document
Details of the monitoring committee composition and minutes of the committee meeting number of programmes organized reports on the various programs etc in support of the claims	<a href="#">View Document</a>
Code of ethics policy document	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

### 7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).

#### Response:

Sapthagiri College of Engineering (SCE) celebrates National and International commemorative days, events and festivals with a view to promote patriotism, concern for the community, human values, inclusiveness and spirit of camaraderie.

Institute celebrates national festivals like Independence Day, Republic Day, Gandhi Jayanthi etc. Celebrations on commemorative days such as Ambedkar Jayanthi, Teacher's Day, Engineer's Day, National Youth day, Kannada Rajyotsava, Kargil Vijay Divas, Valmiki Jayanthi, Kanakadasa Jayanthi, Sadbhavana Diwas, Rashtriya Ekta Diwas, Navarathri festival etc., are being observed to nurture the spirit of nationalism, oneness, national integration, respect for the diversity.

Institute celebrates Independence Day every year on 15th August commemorating the nation's independence. On this day staff and students assemble for flag hosting. Further Institute organizes short film competition on freedom fighters for students to remind them about the sacrifice and struggle faced by freedom fighters for independence.

Institute celebrates Republic Day every year on 26th January. On this day Institute organizes short film on freedom fighters, essay writing and speech competition for students to create awareness about significance of celebrating Republic Day.

Institute celebrates National Youth Day to commemorate the birth anniversary of Swami Vivekananda on 12th January by paying homage to Swami Vivekananda. Institute organizes essay writing competition for students to propagate the philosophy and the ideals of Swami Vivekananda for which he lived and worked.

Institute celebrates Teacher's Day on 5th September to commemorate the birth anniversary of Dr.Sarvepalli Radhakrishnan, who is an excellent teacher and the first Vice President of India.

Institute celebrates Engineer's Day on 15th September to commemorate the birth anniversary of Sir M. Visvesvaraya, by paying homage to him and Institute organizes technical talk for students and faculty on this day.

Institute celebrates Ambedkar Jayanthi on 14th April to commemorate the birth anniversary of Dr. B. R. Ambedkar by paying homage to him. Pick and speak competition is being organized for students to create awareness about the significance of celebrating Ambedkar Jayanthi.

Institute celebrates Kanakadasa Jayanthi and Valmiki Jayanthi by organizing various activities to create awareness about their philosophies, ideologies for students.

Institute celebrates Kannada Rajyotsava in the month of November every year, on this day various cultural activities are being organized for students and faculty.

Institute celebrates Sadbhavana Diwas in the month of August and Rashtriya Ekta Diwas on 31st October by taking the pledge.

Institute celebrates Navarathri festival to commemorate Durga's win over the demon Mahishasura. Students and faculty take part actively in the celebration.

Institute celebrates International commemorative days like World Health day, International Youth day, World diabetes Day, World Food day, World Water Day, International Yoga day, World Environment Day, International Day of Education, International day of Happiness, International Mother Language Day, World Creativity and Innovation Day, World Cancer free day, World Nature Day, International Anti Drug Day. International days are celebrated to educate the students on issues of concern, and resources to address global problems. Institution organizes various activities for students to create awareness.

File Description	Document
Link for Geotagged photographs of some of the events	<a href="#">View Document</a>
Link for Annual report of the celebrations and commemorative events for the last five years	<a href="#">View Document</a>

## 7.2 Best Practices

**7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.**

**Response:**

### Best Practice-1

**Title: "MARGADARSHI" - STUDENT PROCTORING SYSTEM**

#### 1. Objectives:

- To provide a strong support system between the Mentor and Mentee.
- To provide psychological support to handle the stress caused by peer pressure, family contexts etc.
- To continuously monitor not only academic performance, but also to take care of regularity, punctuality, congeniality and to develop a holistic personality.
- To monitor, educate, inform, regulate and empower the students' progress by networking with their parents and the peers.

**2. The Context:** It goes without saying that students at tertiary level are in a volatile predicament. They are neither adolescents nor adults. The paradigm state makes them more vulnerable and pushes them into a state of hyper animosity or depression. Added to this context, is their raging hormones, peer pressure, expectations from the parents, misconceptions about identity and the need to establish themselves as successful individuals. At this level, students need a knowledgeable, mature and empathetic friend providing continuous sustenance, support and systematic mentoring to achieve their goals and become good citizens. The Institution is committed to provide such a support through 'Margadarshi'. The proctoring system "MARGADARSHI" has helped the parents to know about their ward's progress and also students in opting their dream offers or abroad universities for higher education.

**3. The Practice:** "MARGADARSHI" is a system in which mentoring / proctoring is practised & each staff member is allocated with 20 students for mentoring. The staff counsel the students at regular intervals. The progress of the students is conveyed to the parents by letter and SMS from the Institution. As a few of the parents are semi - literate, the mentors call them personally and explain the matters concerned to academics or stress related problems of the student. Parent -Teachers' meetings (ASHRAYA) are conducted and recorded regularly. Weak students are identified by every proctor and given extra coaching to help them achieve success in the specific subjects.

As monitoring, assessing and mentoring are the basic criteria of higher education system in India, "MARGADARSHI" is on par with the context of higher education. The mentor and mentee meet periodically to discuss progress in academics, sports, cultural and Club activities etc., and also contact parents / guardians if situation demands.

The process of mentoring is as follows

- Maintain a detail progressive record of the student.
- Document a brief record of all discussions with the students.
- "Search for Resources" - Identify resources that are conducive to the mentee's goals. Sharing them with mentee and encourage them to utilize it.
- "Create a Mission"- Helping mentee to develop their own personal objective using their skills, passions and personalities.
- Allowing the mentee to plan the meeting which are more interactive.
- Students with stress related problems are advised by the mentor to seek the assistance by the Student Counselling Cell.
- As most of the parents are not aware of the importance of higher education system, steps are taken to make them aware of the technological growth by conducting ASHRAYA meetings.

**4. Evidence Of Success:** Faculty providing extra attention along with the peer group teaching towards weaker students has impacted positively on their studies. These efforts have increased the results in every department and also overall result of the college hence increasing the success rate.

- **Professional Guidance** – Many students have presented research articles in National or International conferences, published articles in Peer reviewed journals, opted higher education at domestic and abroad in premier universities.
- **Projects or Dissertation** – Students have taken up various societal oriented projects that had mentioned in media.

**5. Problems Encountered and Resources Required:**



More often than not, students shy away from sharing their personal and family problems. It requires much persuasion on the part of the mentee.

A few students are non-serious about their studies and career.

A few students are not interested in participating in co-curricular and extra-curricular activities in spite of the best efforts by the mentor.

Some of the parents have shown non-participation in the meeting in spite of repeated calls from mentor and HoDs.

Required resources are being provided by the Institution.

**6. Notes:** Mentors are coached to engage in different types of activities with their mentees to facilitate each of the “Cs” of positive youth development (*i.e.*, character, confidence, competence, caring, connection and contribution). “MARGADARSHI” has strengthened the mentors’ knowledge, skills and efficacy through counselling of mentees. This type of interactions with the mentees has improved our faculty confidence in teaching and even their overall performance.

## Best Practice-2

**Title: SAPTHAGIRISAPTHAPADA- (Students Community Conviction)**

### 1. Objectives:

- To involve students to cater to the community and increase their conviction in community service.
- To help the students understand the societal concerns and extend a hand with empathy and develop a holistic personality through extension activities.
- To motivate the students to join various clubs to serve the community.
- To sensitize the students on creating awareness in school children, villagers, labours and other community on issues like, health & hygiene, awareness on child rights, computer literacy, use of internet, self-defence, Swachh Bharat campaign etc.

### 2. Context of the practice:

The Academic institutions take a lot from the society and the nearby community, than, giving them back. Institutions often restrict themselves to degree - dispensing status and degree awarding role. However, the institutions across the society have an obligation to return the benefits to the community from which institutions flourish and thrive. Students develop skills like intra-personal skills, coordination, leadership and empathy. They tend to understand the status of the society, its trials and tribulations, problems, perfections and texture. Students undoubtedly develop holistic personality through this and often become entrepreneurs through community interaction. With this context, the Institution has *SapthagiriSapthapada* – an initiative to take seven steps to get wedded to the society and partake in its problems. The role of extension activities through various cells and clubs is the need of the hour to understand the social issues and concerns.

### 3. The practice:

*SapthagiriSapthapada* is an ISR initiative by the Institution to network with the community and also integrate the activities of various clubs to cater to the needs of the society. Students are encouraged to register themselves as volunteers to any one of the club / cell and their roles & responsibilities are made clear for the participation. Permissions are obtained in advance from the authorities of visiting place and activities are conducted, and also feedback is collected.

Some of the major extension activities implemented by *SapthagiriSapthapada* through various clubs namely **Community Club, Hasiru, SapthaSamatha, Prathirodhana, Samarthini, Health Club and Manujamatha** are:

- Swachh Bharath Abhiyan
- Lake cleaning
- NSS special camp
- Free Health camp for villagers
- Awareness campaign at Government Schools on organic farming, Global warming & pollution and its effects
- Teaching Chemistry Practicals to Government School students
- Traffic Awareness programme
- Career Guidance Program
  
- Health awareness to Construction labours
- Awareness on Child rights
- Computer Literacy for School students
- Awareness on Government Schemes to Women for social backward women
  
- Awareness talks on hygiene for BBMP women pourakarmikas
- Awareness Program on Children Safety through Street Play
- Awareness Program on Good touch and Bad touch, to the Students and many more

**4. Evidence of success :** *SapthagiriSapthapada* through various clubs has contributed enormously to the benefit of community and society by conducting extension activities. Number of students have been sensitized in environmental sustainability, social responsibility, equality and equity in the society through different community oriented extension activities.

**BLOOD DONATION:** In voluntary blood donation camps organised by team Swayam seva, every year there is a consistent increase in the blood donors. In the year 2018-19, 334 units of blood was collected and deposited to Lions club and Red Cross Society.

**SWACHH LAKE AND GRAM CAMPAIGN:** Hasiru club, Swayam seva and Health club jointly organised the Hesaraghatta lake cleaning and Ivarakandapura grahm Swachh campaign during February and March 2019, where villagers appreciated the efforts of our students. Awareness program on “NO POP Ganesha” and “No Fireworks for happy & safe Deepavali” was conducted in government schools with great appreciation.

**EDUCATING GOVERNMENT SCHOOL STUDENTS:** Prathirodhana, Samarthini, SapthaSamatha and Manujamatha have organised 30 plus activities at Government schools and different communities to make them aware on different aspects of life, environment and human values.

**5. Problems encountered and resources required :** Many times it becomes difficult to get permission from schools to conduct awareness programme, as dates planned by the clubs and schools do not match. Convincing the rural people on certain sensitive issues becomes difficult. Required resources are being provided by the Institution for the smooth conduction of extension activities.

File Description	Document
Link for Best practices in the Institutional web site	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>

### 7.3 Institutional Distinctiveness

**7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words**

**Response:**

**Title: "PARIPOORNATHE"**

Pariipoornathe stands for completeness and in line with the Mission and Vision of the institution, The Institution believes that, Excellence in Engineering education cannot be accomplished with mere academic accomplishments. Excellence in a student constitutes knowledge, skills, holistic development and accruing the skills of a good human being to become a better citizen. The Internal Quality Assurance Cell of the institution, not just promotes academic excellence, also ensures excellence of students in sports, cultural and extra curricular activities.

The institution has earned a good reputation in the university and has gained a better position in the top ten sports achievers list. The prime motto of the Institution is to strive and promote its students not only in academics, but also insists participating in various sports, cultural as well as extra curricular activities so as to enable them to acquire multi skills to elevate their growth at university level. The Institution is highly committed to provide all the necessary support in terms of infrastructure, policy support, financial support, lay down process and procedures to enable the students and staff to promote the participation of the students in a variety of activities to help them achieve excellence. With the constant support of the Institution, students could reach **8th position** amongst a number of colleges at Visvesvaraya Technological University. The Institution has received cash prize of Rupees One Lakh from the University for its performance in various sports events and its performance by scoring 235 points and got felicitated by VTU Achievers for the year 2017-18 and 2018-19. As a part of its policy to promote various activities, the Institution in association with VTU, has organised Judo event and sponsored for the same in the year 2017-18 at the Institution Campus. In addition to this our student Mr. E S Srinivasa Ramanujam won the Gold Medal in the **National Level Kick Boxing Championship - 2019** held from 17th to 22nd October 2019, at Maharana Prathap Sports College, Dehradun.

**"LAQSHYA"** a Youth Festival which is a one day Socio - cultural fest is initiated by the Institution for 11th and 12th Standard students of various colleges in Bangalore. Competition in any form brings out the

best in students and pushes them to excel. The Institute is very magnanimous in promoting these kinds of activities in the campus. The highlights of events are Quiz, Model Exhibition, Dumb charades, Gully Cricket, Rangoli and Antyakshari. This is the distinct program for the students to identify themselves in a platform where they can explore and gain knowledge. In addition to this, orientation on creating awareness towards career opportunities is also done. The institution constantly strives over many years to include diverse events so that students from all disciplines (Science, Commerce and Arts) can participate and make it a grand success. These kinds of events enable students to expand their knowledge, test and showcase new skills and inspire innovation. Students take part actively in many events; winners are awarded with best prizes and participation certificates for all. From these events students will get an exposure to engineering college environment. This provides them an opportunity to visit various departments in the Institution and interact with the staff and students.

Various platforms developed to promote Cultural activities at the Institution include,

1. **Shanthala:** a popular dance competition organized to promote the dancing abilities in various forms for the students.
2. **Chanakya:** a Quiz competition framed to encourage all the students to sharpen their thinking abilities and gain knowledge.
3. **Drishyam:** a competition that encourages students to showcase their talents through short skits, drama and movie making.
4. College fest “**Sankalp**”: An event, that provides a platform for students to showcase their talents in front of audience including students, judges, teachers, parents and other visitors.
5. **VTU Intercollegiate Fest:** allows the students to participate at the state level competitions and compete with other college students.
6. **Ethnic Day celebration:** Promotes students to showcase their ethnic wear and celebrate our traditional culture.
7. **Freshers’ Day:** A series of cultural programmes are performed by higher semester students with sense of gesture to welcome the freshers.
8. **Graduation Day:** A celebration of events for the outgoing students where, all other students bid farewell to them through cultural events.
9. **Navarathri Pooja:** Celebrated for nine auspicious days witnessing the involvement of all the students and staff through, decorating Goddess Saraswati with flowers, drawing rangoli, chanting prayers and performing pooja.
10. **Kannada Rajyotsava:** Event that emphasizes on the importance of Kannada language and allows students to exhibit talents through their performances.
11. **Madhurya:** a musical competition encourages students to sing, dance and play musical instruments and entertain the audience with their talents.
12. **Okuli:** a series of competitions related to colours like Rangoli, Painting, Design stitching, Origami, Flower arrangement, Craft work etc.
13. **Independence Day celebration:** includes cultural events related to patriotism, national integrity etc.
14. **Republic Day celebrations:** provides an opportunity for students to exhibit their patriotism through song, dance, skit and other stage shows.

#### **Student participation and achievements:**

Students of the Institution have been frequently participating in various International, National, State, University and Inter- collegiate level sports activities such as Table Tennis, Basketball, Hand ball,

Badminton, Cricket, Kick boxing, Wrestling, Kabaddi, Volley ball, Hand Ball and Kho-Kho. The department of physical education trains and supervises students for humanity education, Yoga, indoor and outdoor games through Institution annual meets, University meet and Sports events. In addition, with the co-operation of Management and guidance of the Principal and staff, the department of physical education has conducted various Intercollegiate sports events.

File Description	Document
Link for appropriate web in the Institutional website	<a href="#">View Document</a>



## 5. CONCLUSION

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### **Additional Information :**

Institution is located nearby one of the Asia's biggest "Industrial hub" at Peenya, which brings significant advantage to expose the students' potential to transform latest technology and research into start-ups. Institute has access to railway station, Metro Train and is well connected to Bengaluru-Pune express highway as well as International Airport. Institution is surrounded by large sector of agriculture and food processing industry. The Institution encourages an innovative system to produce Quality Engineering Graduates, who serve the society by and large.

### **Concluding Remarks :**

The faculty members strive hard to impart knowledge to the students in order to enhance their competency. The institution has state of the art laboratories which are upgraded in tune with the syllabus framed by the University. The institution fosters students research mindset and character building for a bright future, so as to emerge as tomorrow's nation builders. The students are exposed to modern instruments and test facilities with well-equipped learning resources. The institution also believes in developing research culture in the departments and supports innovative ideas from faculty and students. The extensive students training programs and industrial visits have been conducted in association with industries to enhance the skills set and employability. Conduction of technical exhibitions and participation in various competitions are helpful to students in bridging the gap between industry and academia. The institution is willing to excel in educational system. In addition, it is essential for professional institution to receive stakeholders' perception towards teaching-learning process and supporting entities. Thus, enhancing the step towards self-introspection will lead to further development of the institution towards excellence. The Institution aims to become autonomous so that measures can be taken to meet the Industry requirements.