



## YEARLY STATUS REPORT - 2020-2021

### Part A

#### Data of the Institution

##### 1. Name of the Institution

SATHYABAMA INSTITUTE OF SCIENCE  
AND TECHNOLOGY

- Name of the Head of the institution **Dr. T. SASIPRABA**
- Designation **Vice Chancellor**
- Does the institution function from its own campus? **Yes**
- Phone no./Alternate phone no. **04424503065**
- Mobile no **9840133346**
- Registered e-mail **registrar@sathyabama.ac.in**
- Alternate e-mail address **vc@sathyabama.ac.in**
- City/Town **Jeppiaar Nagar, Rajiv Gandhi Salai, Sholinganallur, Chennai**
- State/UT **Tamil Nadu**
- Pin Code **600119**

##### 2. Institutional status

- University **Deemed**
- Type of Institution **Co-education**
- Location **Urban**

- Name of the IQAC Co-ordinator/Director **Dr. ANIMA NANDA**
- Phone no./Alternate phone no **9443786840**
- Mobile **6381703735**
- IQAC e-mail address **iqac@sathyabama.ac.in**
- Alternate Email address **provoc@sathyabama.ac.in**

**3. Website address (Web link of the AQAR (Previous Academic Year))**

<https://www.sathyabama.ac.in/academics/iqac/aqar>

**4. Whether Academic Calendar prepared during the year?**

**Yes**

- if yes, whether it is uploaded in the Institutional website Web link:

**5. Accreditation Details**

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
<b>Cycle 2</b>	<b>A</b>	<b>3.09</b>	<b>2017</b>	<b>13/09/2017</b>	<b>12/09/2022</b>
<b>Cycle 1</b>	<b>B++</b>	<b>Nil</b>	<b>2006</b>	<b>27/09/2006</b>	<b>26/09/2011</b>

**6. Date of Establishment of IQAC**

**03/07/2007**

**7. Provide the list of Special Status conferred by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/ Department/Faculty	Scheme	Funding agency	Year of award with duration	Amount
<b>Centre for Nanoscience and Nanotechnology</b>	<b>CDRI-CSIR</b>	<b>MoES</b>	<b>2016 1825</b>	<b>4800000</b>
<b>Centre for Ocean Research</b>	<b>ESTC</b>	<b>MoES</b>	<b>2018 1825</b>	<b>40000000</b>

**8. Whether composition of IQAC as per latest NAAC guidelines**

**Yes**

- Upload latest notification of formation of IQAC

[View File](#)

**9.No. of IQAC meetings held during the year** 4

- The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website. (Please upload, minutes of meetings and action taken report) **Yes**
- (Please upload, minutes of meetings and action taken report) [View File](#)

**10.Whether IQAC received funding from any of the funding agency to support its activities during the year?** **Yes**

- If yes, mention the amount **30000**

**11.Significant contributions made by IQAC during the current year (maximum five bullets)**

A New tool - S Score (Sathyabama Score) was introduced to rate and assess the performance of the faculty in Academics, Research and their contribution on outreach activities. The top twenty scorers were appreciated with cash award and certificate of appreciation.

The Design thinking course was introduced in all the Engineering & Architecture programs in order to kinder and provide the avenue for the students to design , conceive and implement their innovative ideas by developing prototypes

Participated in Times Impact Rankings 2021 under Four SDG's and secured notable ranks with respect to all the four Sustainable Development Goals (SDG- 1,10,13,17) for which we had applied. We were ranked in 201 - 300 positions among the Universities worldwide in reducing inequalities (SDG 10), climate action (SDG 13) and Partnership for goals (SDG 17). The Institution has been ranked in 301-400 position for SDG01 - No Poverty, recognizing its contribution towards eradicating poverty. Sathyabama's overall position is 601-800 among the world Universities according to the Times Higher Education Impact Rankings, 2021.

Initiated Faculty Development Programs in Artificial Intelligence, AR &VR, UHV and Design Thinking for all the faculties with the support of Industries and External Experts. Several awareness programs on NEP 2020 were organized for the benefit of our own faculty and other academic fraternity at large

Several orientation programs were conducted to the faculty and Students towards inculcating Digital tools for teaching , learning and Assessments. Apart from organizing technical events, many webinars were conducted for healthy living , mental wellness, yoga, Gender sensitivity ,food and nutrition etc

## 12. Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year

Plan of Action	Achievements/Outcomes
Revision of Engineering Curriculum as per Conceiving, Designing, Implementing and Operating (CDIO) Standards	Introduction of Design Thinking and Innovation Course in all the Engineering Programs
Specialized programs in Computer Science Engineering based on the industrial demand	3 Specialized Programs on Artificial Intelligence, Data Science and Internet of Things were introduced in B.E (Computer Science and Engineering)
Open and Distance Learning programme were proposed to start for the benefit of working professionals and Home makers	Five ODL programs were started on MBA, BBA, B.Com, MA(English) and M.Sc (Mathematics)
Online Certificate programme on Skill Development for Students	3500 students from both UG and PG were benefited
Proposed to establish Nodal Centre for Remote and Virtual Lab in collaboration with NIT Suratkal	The virtual labs were used by the students during the lockdown period
Virtual Summer Internship for 3rd year students has been planned	All students from various departments attended the virtual summer internship organised by our partnering institutions
Online Hackathon ,Cultural and technical Events were planned to engage the students during the pandemic	Students actively participated in all the online events and the winners were awarded with cash prizes and certificates of appreciation. Participation includes students from other Institutions across the country

Participation in NIRF and ARIIA Rankings	Ranked in 39th position among the Universities as per NIRF and Ranked fifth position among the private Institutions in the Country in ARIIA Rankings
Conduct two week compulsory Induction programs for the first year students and the newly inducted faculty	Institution-wide as well as departmental level orientation programmes were conducted for all the first year students. Orientation programme was also conducted for newly inducted faculty members.
Introduction of New Education Policy for the students	Interdisciplinary projects were implemented in Engineering curriculum
Seed grant for faculty and students were planned	3.8 Crore Seed grant were given to the faculty and students for innovation, patent and research award

**13. Whether the AQAR was placed before statutory body?** Yes

- Name of the statutory body

Name	Date of meeting(s)
Board of Management	19/09/2021

**14. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to Assess the functioning?** No

**15. Whether institutional data submitted to AISHE**

## Part A

### Data of the Institution

<b>1.Name of the Institution</b>	<b>SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY</b>
• Name of the Head of the institution	<b>Dr. T. SASIPRABA</b>
• Designation	<b>Vice Chancellor</b>
• Does the institution function from its own campus?	<b>Yes</b>
• Phone no./Alternate phone no.	<b>04424503065</b>
• Mobile no	<b>9840133346</b>
• Registered e-mail	<b>registrar@sathyabama.ac.in</b>
• Alternate e-mail address	<b>vc@sathyabama.ac.in</b>
• City/Town	<b>Jeppiaar Nagar, Rajiv Gandhi Salai, Sholinganallur, Chennai</b>
• State/UT	<b>Tamil Nadu</b>
• Pin Code	<b>600119</b>
<b>2.Institutional status</b>	
• University	<b>Deemed</b>
• Type of Institution	<b>Co-education</b>
• Location	<b>Urban</b>
• Name of the IQAC Co-ordinator/Director	<b>Dr. ANIMA NANDA</b>
• Phone no./Alternate phone no	<b>9443786840</b>
• Mobile	<b>6381703735</b>

• IQAC e-mail address	<a href="mailto:iqac@sathyabama.ac.in">iqac@sathyabama.ac.in</a>				
• Alternate Email address	<a href="mailto:provc@sathyabama.ac.in">provc@sathyabama.ac.in</a>				
<b>3.Website address (Web link of the AQAR (Previous Academic Year))</b>	<a href="https://www.sathyabama.ac.in/academics/iqac/aqar">https://www.sathyabama.ac.in/academics/iqac/aqar</a>				
<b>4.Whether Academic Calendar prepared during the year?</b>	Yes				
• if yes, whether it is uploaded in the Institutional website Web link:					
<b>5.Accreditation Details</b>					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 2	A	3.09	2017	13/09/2017	12/09/2022
Cycle 1	B++	Nil	2006	27/09/2006	26/09/2011
<b>6.Date of Establishment of IQAC</b>			03/07/2007		
<b>7.Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.</b>					
Institution/ Department/Faculty	Scheme	Funding agency	Year of award with duration	Amount	
Centre for Nanoscience and Nanotechnology	CDRI-CSIR	MoES	2016 1825	4800000	
Centre for Ocean Research	ESTC	MoES	2018 1825	40000000	
<b>8.Whether composition of IQAC as per latest NAAC guidelines</b>	Yes				
• Upload latest notification of formation of IQAC	<a href="#">View File</a>				
<b>9.No. of IQAC meetings held during the year</b>	4				



<ul style="list-style-type: none"> <li>The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website. (Please upload, minutes of meetings and action taken report)</li> </ul>	Yes	
<ul style="list-style-type: none"> <li>(Please upload, minutes of meetings and action taken report)</li> </ul>	<a href="#">View File</a>	
<b>10. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	Yes	
<ul style="list-style-type: none"> <li>If yes, mention the amount</li> </ul>	30000	
<b>11. Significant contributions made by IQAC during the current year (maximum five bullets)</b>		
<p>A New tool - S Score (Sathyabama Score) was introduced to rate and assess the performance of the faculty in Academics, Research and their contribution on outreach activities. The top twenty scorers were appreciated with cash award and certificate of appreciation.</p>		
<p>The Design thinking course was introduced in all the Engineering &amp; Architecture programs in order to kinder and provide the avenue for the students to design , conceive and implement their innovative ideas by developing prototypes</p>		
<p>Participated in Times Impact Rankings 2021 under Four SDG's and secured notable ranks with respect to all the four Sustainable Development Goals (SDG- 1,10,13,17) for which we had applied. We were ranked in 201 - 300 positions among the Universities worldwide in reducing inequalities (SDG 10), climate action (SDG 13) and Partnership for goals (SDG 17). The Institution has been ranked in 301-400 position for SDG01 - No Poverty, recognizing its contribution towards eradicating poverty. Sathyabama's overall position is 601-800 among the world Universities according to the Times Higher Education Impact Rankings, 2021.</p>		
<p>Initiated Faculty Development Programs in Artificial Intelligence, AR &amp;VR, UHV and Design Thinking for all the faculties with the support of Industries and External Experts. Several awareness programs on NEP 2020 were organized for the benefit of our own faculty and other academic fraternity at large</p>		



Several orientation programs were conducted to the faculty and Students towards inculcating Digital tools for teaching , learning and Assessments. Apart from organizing technical events, many webinars were conducted for healthy living , mental wellness, yoga, Gender sensitivity ,food and nutrition etc

## 12. Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year

Plan of Action	Achievements/Outcomes
Revision of Engineering Curriculum as per Conceiving, Designing, Implementing and Operating (CDIO) Standards	Introduction of Design Thinking and Innovation Course in all the Engineering Programs
Specialized programs in Computer Science Engineering based on the industrial demand	3 Specialized Programs on Artificial Intelligence, Data Science and Internet of Things were introduced in B.E (Computer Science and Engineering)
Open and Distance Learning programme were proposed to start for the benefit of working professionals and Home makers	Five ODL programs were started on MBA, BBA, B.Com, MA(English) and M.Sc (Mathematics)
Online Certificate programme on Skill Development for Students	3500 students from both UG and PG were benefited
Proposed to establish Nodal Centre for Remote and Virtual Lab in collaboration with NIT Suratkal	The virtual labs were used by the students during the lockdown period
Virtual Summer Internship for 3rd year students has been planned	All students from various departments attended the virtual summer internship organised by our partnering institutions
Online Hackathon ,Cultural and technical Events were planned to engage the students during the pandemic	Students actively participated in all the online events and the winners were awarded with cash prizes and certificates of appreciation. Participation

	includes students from other Institutions across the country
Participation in NIRF and ARIIA Rankings	Ranked in 39th position among the Universities as per NIRF and Ranked fifth position among the private Institutions in the Country in ARIIA Rankings
Conduct two week compulsory Induction programs for the first year students and the newly inducted faculty	Institution-wide as well as departmental level orientation programmes were conducted for all the first year students. Orientation programme was also conducted for newly inducted faculty members.
Introduction of New Education Policy for the students	Interdisciplinary projects were implemented in Engineering curriculum
Seed grant for faculty and students were planned	3.8 Crore Seed grant were given to the faculty and students for innovation, patent and research award
<b>13. Whether the AQAR was placed before statutory body?</b>	Yes
<ul style="list-style-type: none"> <li>Name of the statutory body</li> </ul>	
Name	Date of meeting(s)
Board of Management	19/09/2021
<b>14. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to Assess the functioning?</b>	No
<b>15. Whether institutional data submitted to AISHE</b>	
Year	Date of Submission
2020	29/02/2020
<b>16. Multidisciplinary / interdisciplinary</b>	

<b>17.Academic bank of credits (ABC):</b>
<b>18.Skill development:</b>
<b>19.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)</b>
<b>20.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):</b>
<b>21.Distance education/online education:</b>

### Extended Profile

<b>1.Programme</b>	
1.1 Number of programmes offered during the year:	65
1.2 Number of departments offering academic programmes	27
<b>2.Student</b>	
2.1 Number of students during the year	12480
2.2 Number of outgoing / final year students during the year:	3502
2.3 Number of students appeared in the University examination during the year	13500
2.4	52

Number of revaluation applications during the year	
<b>3.Academic</b>	
3.1 Number of courses in all Programmes during the year	1598
3.2 Number of full time teachers during the year	725
3.3 Number of sanctioned posts during the year	34
<b>4.Institution</b>	
4.1 Number of eligible applications received for admissions to all the Programmes during the year	69381
4.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	00
4.3 Total number of classrooms and seminar halls	262
4.4 Total number of computers in the campus for academic purpose	3800
4.5 Total expenditure excluding salary during the year (INR in lakhs)	10425 LAKHS

## Part B

### CURRICULAR ASPECTS

#### 1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes(PSOs) and Course Outcomes(COs) of the Programmes offered by the University

**New programs are introduced based on the regional, national and**

global needs. Industry 4.0, Design thinking and innovation, Critical thinking etc. were introduced to all the engineering programs in order to provide exposure to Industrial IoT, Artificial Intelligence, Cyber security, Data science and Block chain technologies. Curriculum is designed based on the expected learning outcomes that cover the knowledge, skills and attitudes of the student. Attainment of Course Outcomes (COs), Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) are calculated by including the indirect methods through stakeholders survey. The attainment of all the program outcomes ensures that the curriculum and the teaching learning process are aligned with the graduates attributes.

#### Salient features of our curriculum

- Accommodates credit transfer programs like Semester Abroad Programme, Internships Abroad etc.
- Curriculum follows CDIO framework
- Universal Human Values, is offered as a 3 credit course in all our programmes
- NSS/NCC/YRC form a part of our curriculum as Non Credit Course.
- Industry tailored courses as electives for engineering students
- Curriculum enabling Experiential Learning
- Value added courses and employability oriented certification courses.
- Students can earn credits by enrolling in MOOC courses like NPTEL, SWAYAM, Coursera etc.

Seminar course in Post Graduate Curriculum to enhance the interpersonal skill.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 1.1.2 - Number of Programmes where syllabus revision was carried out during the year

32

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 1.1.3 - Total number of courses having focus on employability/ entrepreneurship/ skill development offered by the University during the year

#### 1.1.3.1 - Number of courses having focus on employability/ entrepreneurship/ skill development during the year

1398

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 1.2 - Academic Flexibility

#### 1.2.1 - Number of new courses introduced of the total number of courses across all programs offered during the year

232

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 1.2.2 - Number of Programmes in which Choice Based Credit System (CBCS)/elective course system has been implemented during the year

64

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</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

The Institution has prescribed courses for all engineering programs relevant to gender, environment and sustainability, human values and professional ethics, Environmental Science, Constitution of India and Professional Ethics. Students will be able to understand the importance of ethics and values in their

personal, social and professional life after studying these courses. The courses are offered with the aim to inculcate values and develop ethical competence among the students.

Courses such as Environment and Sustainability, Sustainable architecture, environmental ethics, Energy and Environment management etc. form an integral part of the curriculum to create awareness about the importance of environment among students. The Institution organizes.

Courses such as Social Welfare and Social Legislation in India, Environmental Laws, International Relations, Professional Ethics and Professional Accounting, Women and Criminal Law, Penology and Victimology, Gender Justice and Feminist Jurisprudence, Offenses against Child and Juvenile offenses provide knowledge about the various legislations and make students understand the importance of human values and ethics in life. Gender related course titled "Feministic Jurisprudence" is offered for students studying Law.

Moral Values, Human Values and Professional Ethics are taught in the induction programme when the students join the Institution.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

91

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 1.3.3 - Total number of students enrolled in the courses under 1.3.2 above

#### 1.3.3.1 - Number of students enrolled in value-added courses imparting transferable and life skills offered during the year

11549



File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 1.3.4 - Number of students undertaking field projects / research projects / internships during the year

7893

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 1.4 - Feedback System

**1.4.1 - Structured feedback for design and review of syllabus – semester wise / is received from Students Teachers Employers Alumni**

- All 4 of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**1.4.2 - Feedback processes of the institution may be classified as follows**

- Feedback collected, analysed and action taken and feedback available on website

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

## TEACHING-LEARNING AND EVALUATION

### 2.1 - Student Enrollment and Profile

#### 2.1.1 - Demand Ratio

##### 2.1.1.1 - Number of seats available during the year

4587

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 2.1.2 - Total number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per applicable reservation policy during the year (Excluding Supernumerary Seats)

### 2.1.2.1 - Number of actual students admitted from the reserved categories during the year

0

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</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

The institution has effective diagnostic process and remedial measures in place to support advanced learners and slow learners. The students are categorized based on their performance in the entry level exams, diagnostic tests conducted in the first year. The students are continuously monitored based on their performance in the CAE and ESE examinations every semester.

Bridge courses are conducted for slow learners in order to support them to meet the demands of the curriculum. They are provided support in the form of remedial classes, counselling and additional teaching hours. Compensatory classes are conducted for students who could not match the pace of regular classes. These strategic approaches resulted in improved domain understanding by the students. The individual skill set of students are identified and to participate in various activities, symposiums etc. based on their interest and knowledge.

The advanced learners are encouraged through merit awards, scholarships, semester abroad exchange programmes, participation in hackathons, present tech talks. Remibai Jeppiaar scholarships are given to toppers of every year.

Project Innovation and Development Centre (PRIDE) is an initiative

to foster product building passion among all students. Students with product ideas are supported with mentorship, technology, consultancy to build prototypes of designed products

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Link For Additional Information	<a href="https://sathyabama-startup.com">https://sathyabama-startup.com</a> , <a href="https://www.sathyabama.ac.in/campus-life/student-zone/skill-development-centre">https://www.sathyabama.ac.in/campus-life/student-zone/skill-development-centre</a>

### 2.2.2 - Student - Full time teacher ratio during the year

Number of Students	Number of Teachers
12480	725

File Description	Documents
Upload relevant supporting document	<a href="#">View File</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

Sathyabama Institute of Science and Technology strongly believes in "Learning by Doing". With this motto in mind, curriculum is framed in such a way that the student learns from practice in contrast to conventional methodology of uncovering the concepts.

#### Experiential learning

Our courses designed with Problem based Learning approach helps students in learning the concepts by understanding from the prototypes they have developed. Design thinking is one such course introduced by our institution.

#### Experimental Learning

60% of the courses have a related laboratory course where the students learn through experimental learning. Laboratory programs are classified into closed, semi open, open ended and complex engineering problems. Students gain knowledge in the design and

implementation of circuits.

### Participatory Learning

Teachers enhance the students by making them participate in Internet Hunt, Reacting to situations, Role play, Group Discussions, Just a Minute, Quiz, Hackathon, Robotic/Drone contests, Go Kart etc.

### Problem Solving Methodologies

Students develop the ability to convert a real time problem into solvable problem statement, analyse various solutions, select suitable solution in terms of cost and quality, develop a prototype and implement the same. Technology Business Incubators at our university provides mentoring support as well as financial support to students for innovative products

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

2.3.2 - Teachers use ICT enabled tools including online resources for effective teaching and learning processes during the year

The various ICT tools used in the campus are listed as follows

1. LCD Projectors- Available at all classrooms, demonstration rooms and laboratories
2. Desktops - Available at department laboratories, faculty cabins and HOD cabins.
3. Smart boards- Smart boards are installed at all the Smart classrooms in the campus
4. 149 Licenced Zoom logins
5. Sathyabama Learning Management System (LMS)
6. Access to MOOC platforms like NPTEL, Swayam etc.,
7. Sathyabama Youtube Channel hosting prominent lectures of the faculty and Media lab facility to create video lectures
8. Remote access to Digital library resources through Knimbus mobile application
9. Online Examination Conduction through AMCAT service provider

Tools used for the teaching learning processes as follows

E Platform -Sathyabama LMS:

The faculty members and students use Sathyabama LMS for teaching-learning purpose. Students' activities are monitored through LMS.

#### E- resources- Digital Library - M Library

Faculty and students can access the online digital resources of all the subscribed journals, magazines, reference and text books through the Knimbus mobile app from anywhere.

#### E- lecture platform - Zoom

Online live lectures, viva voce examinations, video conferencing and discussions, placement training, formal meetings are held through Zoom platform. Polls and quizzes are conducted in Zoom to make the classes interactive and participative.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 2.3.3 - Ratio of students to mentor for academic and other related issues during the year

#### 2.3.3.1 - Number of mentors

624

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 2.4 - Teacher Profile and Quality

#### 2.4.1 - Total Number of full time teachers against sanctioned posts during the year

725

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 2.4.2 - Total Number of full time teachers with Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit. during the year

561

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

### 2.4.3 - Total teaching experience of full time teachers in the same institution during the year

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

4687

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 2.4.4 - Total number of full time teachers who received awards, recognition, fellowships at State, National, International level from Government/Govt. recognised bodies during the year

106

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 2.5 - Evaluation Process and Reforms

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

Nil

#### 2.5.1.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results year wise during the year

14

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 2.5.2 - Total number of student complaints/grievances about evaluation against total number appeared in the examinations during the year

52

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

2.5.3 - IT integration and reforms in the examination procedures and processes (continuous internal assessment and end-semester assessment) have brought in considerable improvement in examination management system of the institution

The Examination reforms are formulated in accordance with the recommendations of AICTE. OBE frame work for assessment has been incorporated into our examination system.

The following significant reforms were effected in the Examination system:

- Credit system was introduced for the benefit of the students and Grade system is followed
- Students are continuously assessed through Continuous Internal Assessment (CAE), which is conducted twice a semester for each course and End Semester Exam is conducted for each course
- Periodical assignments, presentations, project work, tests and quizzes are made part of assessment and are used to assess the performance of the students and attainment of Course Outcomes.
- Integration of ICT Tools for the conduct of examinations, evaluation and declaration of results.

### Impact of the Reforms

- Continuous and comprehensive evaluation of the students throughout the semester.
- Assignments, presentations, project work, tests and quizzes results in Improvement of the critical thinking, problem solving and decision making skills of students.
- Declaration of results within the stipulated time.
- Reduction in the malpractices
- Improvement in reliability, efficiency, security, transparency, confidentiality, and accuracy in the entire process.
- Timely publication of results and issuing necessary



certificates in time helps final year students in their placements and higher studies.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 2.5.4 - Status of automation of Examination division along with approved Examination Manual

A. 100% automation of entire division & implementation of Examination Management System (EMS)

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 2.6 - Student Performance and Learning Outcomes

2.6.1 - The institution has stated learning outcomes (generic and programme specific)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents

Sathyabama Institute of Science and Technology has adopted Outcome Based Education and six of our Undergraduate programs are accredited by National Board of Accreditation. Generic Program Outcomes (POs) as defined by NBA , Programme Specific Outcomes (PSOs) as defined by the department and the Programme specific criteria as expected by the professional bodies like IEEE, ISTE and ASME are mapped with the courses of every programme.

POs and PSOs are made public to the stakeholders and are available in the following:

- Institution's website
- Institution's Newsletters
- Students' notebooks
- Faculty log books
- Department notice boards
- Laboratories
- Syllabus books/ soft copies of the syllabus containing POs and PSOs of all programmes are made available in the website of the Institution

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

2.6.2 - Attainment of Programme outcomes, Programme specific outcomes and course outcomes are evaluated by the institution during the year

A systematic approach is followed for the attainment of COs and POs/PSOs. Department Advisory Committee (DAC) and Program Assessment Committee (PAC) periodically review and set the threshold for CO and PO/PSO attainment. Internal and external audit committees meet yearly once respectively and review the CO/PO/PSO attainment, measures taken against the non-met POs and the impact analysis of the action. CO attainment is calculated for the courses in that semester and at the end of the programme, PO/PSO attainment is calculated. Discrete formulae are framed for CO attainment and PO/PSO attainment.

Course Outcomes are framed and finalized after deliberations with department level committee, discussed in BoS and embedded in the syllabus. Questions in the CAE and ESE are mapped with the Course Outcomes. PAC meets twice in each semester and reviews the CO mapping with the questions in CAEs and in assignments.

Direct assessment tools:

- CIE (CAE+ Assignments) and ESE for theory courses
- Model and End Semester Examinations for practical courses
- CIE and Project evaluation for PBLA courses
- Reviews and Viva voce for Design Thinking, Interdisciplinary projects and final year projects (Phase I and Phase 2)
- Oral presentation for Professional training Courses and credit mapping for NPTEL/Certification courses/Personality Development Tests.

Indirect assessment tools:

- Course End Survey
- Graduate Exit Survey
- Alumni survey
- Employer survey

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 2.6.3 - Number of students passed during the year

#### 2.6.3.1 - Total number of final year students who passed the university examination during the year

3290

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 2.7 - Student Satisfaction Survey

#### 2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a web link)

[https://sist.sathyabama.ac.in/download/iqac/SSS\\_2020-2021.pdf](https://sist.sathyabama.ac.in/download/iqac/SSS_2020-2021.pdf)

### RESEARCH, INNOVATIONS AND EXTENSION

#### 3.1 - Promotion of Research and Facilities

3.1.1 - The institution Research facilities are frequently updated and there is well defined policy for promotion of research which is uploaded on the institutional website and implemented

Sathyabama Institute of Science and Technology's activities are aimed at developing excellence in Science & Technology through competitive academic and research environment, linkages with the industry and leading academic and research institutions.

Sathyabama Institute of Science and Technology gives more emphasis to research as it is aware of the significance of research for sustainable growth and development. To address the global challenges with respect to social, economic and environmental issues, the Institution is involved in breakthrough research and innovation in the thrust areas of Science and Technology. The Institution has world class research facilities that complement and augment the research strength of the Institution. Research facilities including laboratories and advanced equipment are regularly upgraded. There is a policy in place for the promotion of research in the Institution and it is uploaded on the institution's website

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 3.1.2 - The institution provides seed money to its teachers for research (amount INR in Lakhs)

**381.6 LAKHS**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.1.3 - Number of teachers receiving national/ international fellowship/financial support by various agencies for advanced studies/ research during the year

**12**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.1.4 - Number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other research fellows enrolled in the institution during the year

**31**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.1.5 - Institution has the following facilities to support research**

**Central Instrumentation**

**Centre Animal House/Green House Museum**

**Media laboratory/Studios Business Lab**

**Research/Statistical Databases Moot court**

**Theatre Art Gallery**

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

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 3.1.6 - Number of departments with UGC-SAP, CAS, DST-FIST, DBT, ICSSR and other recognitions by national and international agencies during the year

10

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 3.2 - Resource Mobilization for Research

### 3.2.1 - Extramural funding for Research (Grants sponsored by the non-government sources such as industry, corporate houses, international bodies for research projects) endowments, Chairs in the University during the year (INR in Lakhs)

58.7 Lakhs

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.2.2 - Grants for research projects sponsored by the government agencies during the year (INR in Lakhs)

1505.3 lakhs

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.2.3 - Number of research projects per teacher funded by government and non-government agencies during the year

1

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.3 - Innovation Ecosystem

3.3.1 - Institution has created an eco-system for innovations including Incubation centre and other initiatives for creation and transfer of knowledge

Sathyabama has its fully functional incubation centre(<http://www.sathyabamatbi.in/>) with its preincubation facilities, mentoring support, Intellectual property management with periodical trainings. Dot2globe Solutions India Private Limited, CZ Smart mobility, Highavenue creative labs private limited, Imagine Trend, DataXtech Info System are few of the incubated companies under Sathyabama Technology Business Incubator. Periodical seminars, workshops and trainings are offered for a broader understanding and self discovery.

To involve and increase the involvement of students and faculty in the innovation and entrepreneurial arena, National Innovation and Startup Policy was initiated and implemented (<https://sathyabama-startup.com/>).Sathyabama Institute Innovation and Start Up policy for students and faculty, intends to strengthen the innovation and start up eco system in the campus, enhance institute partnership with eco system enablers, mentor and nurture the innovative ideas of students and faculty, provide networking for funding and transform them to successful start up entrepreneurs.An exclusive Institute startup policy for the students and faculty of Sathyabama, includes acquiring credits through start up activities, trainings and value added courses, creating the entrepreneurial eco system at the student and faculty level.Preincubation and incubation services including seed funding, legal and patent support, provision of physical space and logistic services, IP services are currently in place to support student and faculty innovations in specific.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year**

281

### 3.3.2.1 - Total number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development year wise during the year

281

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

### 3.3.3 - Number of awards / recognitions received for research/innovations by the institution/teachers/research scholars/students during the year

#### 3.3.3.1 - Total number of awards / recognitions received for research/innovations won by institution/teachers/research scholars/students year wise during the year

165

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.4 - Research Publications and Awards

#### 3.4.1 - The institution ensures implementation of its stated Code of Ethics for research

##### 3.4.1.1 - The institution has a stated Code of Ethics for research and the implementation of which is ensured through the following

A. All of the above

1. Inclusion of research ethics in the research methodology course work
2. Presence of institutional Ethics committees (Animal, chemical, bio-ethics etc)
3. Plagiarism check
4. Research Advisory Committee

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>



**3.4.2 - The institution provides incentives to teachers who receive state, national and international recognitions/awards** **A. All of the above**  
**Commendation and monetary incentive at a University function**  
**Commendation and medal at a University function**  
**Certificate of honor**  
**Announcement in the Newsletter / website**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.4.3 - Number of Patents published/awarded during the year**

**3.4.3.1 - Total number of Patents published/awarded year wise during the year**

100

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.4.4 - Number of Ph.D's awarded per teacher during the year**

**3.4.4.1 - How many Ph.D's are awarded during the year**

143

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.4.5 - Number of research papers per teacher in the Journals notified on UGC website during the year**

3

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.4.6 - Number of books and chapters in edited volumes published per teacher during the year

#### 3.4.6.1 - Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings during the year

262

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.4.7 - E-content is developed by teachers For A. Any 5 or all of the above e-PG-Pathshala For CEC (Under Graduate) For SWAYAM For other MOOCs platform For NPTEL/NMEICT/any other Government Initiatives For Institutional LMS

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.4.8 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

Scopus	Web of Science
2354	1405

File Description	Documents
Any additional information	<a href="#">View File</a>
Bibliometrics of the publications during the year	<a href="#">View File</a>

### 3.4.9 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

Scopus	Web of Science
77	68

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	<a href="#">View File</a>
Any additional information	No File Uploaded

### 3.5 - Consultancy

3.5.1 - Institution has a policy on consultancy including revenue sharing between the institution and the individual and encourages its faculty to undertake consultancy

The institution values the effort of faculty undertaking consultancy activities carried outside the institution. This is an opportunity for knowledge transfer and expertise sharing to and from industries resulting in productive relationships. It is the the Institution's core policy to encourage consultancy activities by faculty within the contractual responsibilities laid down by the University.

The university consultancy policy document has detailed laid out guidelines on the various aspects covered by consultancy projects/activities.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 3.5.2 - Revenue generated from consultancy and corporate training during the year (INR in Lakhs)

#### 3.5.2.1 - Total amount generated from consultancy and corporate training during the year (INR in lakhs)

**110.24 LAKHS**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.6 - Extension Activities

3.6.1 - Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the year

The institute promotes regular engagement of faculty, students and staff with neighborhood community for their holistic development and sustained community development through various activities. Student Development Cell, NCC, NSS organizes various programmes every year.

Various awareness programs, workshops, rallies and road shows with themes like cleanliness, green environment & tree plantation, gender sensitization, traffic rule awareness, digital payment, and empowerment of girls and women; and help acid-attack survivors, Welfare of elderly, Protection of rights of persons with disability are organized.

Continuous voluntary activities by students to maintain cleanliness in and around the Community, create awareness about the role of clean environment in human health and contribute to the National Swachh Bharat Abhiyan

Organized Blood Donation camps

Awareness of Legal Rights

Awareness of Oral Health (Aim to Terminate Tobacco and Cancer).

Health Checkup Camp

Training of Rural Women

Impact & Sensitization:

Exposure to extension and outreach activities sensitize the students towards social issues and also to legal and social remedies for matters like domestic violence, dowry, child abuse, beggars, female child, victims of violence, old and infirm, refugees and displaced persons etc. The activities conducted lead imbuing the values of social responsibility such as:

- To help people in need and distress
- To understand and share the need of under privileged children

- To promote cleanliness in all span of life and common places,
- To acquire social values and a deep interest in environmental related issues.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 3.6.2 - Number of awards received by the Institution, its teachers and students from Government /Government recognised bodies in recognition of the extension activities carried out during the year

#### 3.6.2.1 - Total number of awards and recognition received for extension activities from Government / Government recognised bodies during the year

26

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.6.3 - Number of extension and outreach programs conducted by the institution including those through NSS/NCC/Red cross/YRC during the year(including Government initiated programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. and those organised in collaboration with industry, community and NGOs)

32

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.6.4 - Total number of students participating in extension activities listed at 3.6.3 above during the year

462

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.7 - Collaboration

**3.7.1 - Number of collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students during the year**

**3.7.1.1 - Total number of Collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students during the year**

71

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.7.2 - Number of functional MoUs with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the year**

30

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 - Physical Facilities

4.1.1 - The institution has adequate facilities for teaching - learning. viz., classrooms, laboratories, computing equipment, etc.

The Institution has excellent teaching-learning facilities that provide the most satisfying learning experience to students. Our campus has an admirable academic ambience with adequate classrooms, laboratories, centres of excellence, library, seminar halls, mega classrooms; ICT enabled smart class rooms,

auditoriums.

Program specific infrastructure like Aero Hanger, industry Robot, Windmill generation unit and MOOT court are available for students pursuing Aeronautical Engineering, Mechanical Engineering, Electricals and Electronics Engineering and Law respectively. Centres of Excellence are established in association with leading Industries like CISCO, RIA, HCL Technologies, Siemens, Capgemini, Virtusa, GE, Infosys, QMax, NI Labview Academy and Vectorworks. In addition to the above-mentioned laboratory facilities, infrastructure facilities available at research centers housed in Col. Dr.Jeppiaar Research Park and International Research Centre.

Sathyabama Institute of Science and Technology has a massive computing infrastructure with latest software used in academia and industries. The Institution has well equipped computer laboratories with more than 3800 terminals with LAN networking. The entire campus is ICT enabled, with wi-fi connectivity and intranet facility. A 'NextGen Lab' has been established to explore cutting-edge computing technologies like Augmented Reality (AR), Virtual Reality (VR), Artificial Intelligence (AI), Internet of Things (IOT), block chain and Data science. Virtual Computing Lab, Data science lab and Cloud Computing labs are available for the students of Computer Science Engineering.

We have dedicated Internet Leased line of 500 Mbps (Service Provider: Reliance JIO) and a redundancy link of 100 Mbps (Service Provider: BSNL), connected to all the terminals throughout the Campus.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

4.1.2 - The institution has adequate facilities for cultural activities, yoga, games (indoor, outdoor) and sports. (gymnasium, yoga centre, auditorium, etc.)

Sathyabama gives equal importance to sports and curriculum for all round development of students and greatly supports in shaping the career of students who are interested in sports. Sports facilities available in the campus include play courts, playgrounds for Volleyball, Basketball, Kabadi, Ball badminton, Tennis, Hand ball, Foot ball, Hockey, Kho-kho, Cricket and other outdoor games. Facilities for indoor games like chess, carom and table tennis are also available.



Sports infrastructure in the campus serves as the vital supporting system that motivates students inclined towards sports. We encourage students' participation in the National and International tournaments and students have won laurels to the institution by winning several trophies. In association with AIU (Association of Indian Universities), we host tournaments related to Chess, Taekwondo, Cricket, Squash and Basketball. Our sports grounds, courts and other facilities are used by corporate to conduct sports competitions.

We organize mega sports events and competitions to Corporates and School Students, in which our students play a vital role. We have organized UBA Season-4 Pro Basketball League and 25th Dr.MGR Trophy-Inter Institutional T20 Cricket Tournament. All India FIDE rating Chess tournament, South Zone Inter University Women Cricket Tournament, Wheel Chair Basket ball U-23 team training camp, All India Inter Squash Rackets Men & Women tournament are some of the major events hosted in the recent past. We have well equipped Gymnasiums separately for Boys and Girls.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 4.1.3 - Availability of general campus facilities and overall ambience

Sathyabama Institute of Science and Technology provides high class facilities to cater to the educational, physiological and psychological needs of the students and faculty. Though located in the city limits, the campus has a fresh and green landscape throughout its area, with wide concrete internal roads connecting various departments and amenities.

- Battery vehicles plying between departments, research centres and hostels.
- The entire campus is equipped with wi-fi facility
- Ramps, lifts and toilets for differently abled students and faculty
- 13 research centres funded by various International and National Agencies.
- 3 conference hall each equipped with good sound system, air conditioning and seating facilities cater to the needs of occasions like conferences, seminars, symposiums, training and student performance events.
- 5 Boys Hostels and 5 Girls Hostels
- ATMs

- Stores
- Fitness studio
- Canteens
- Beauty spa,
- Laundry,
- Courier service
- Photo copying section.
- Sathyabama General Hospital
- Medical room
- Emergency Vehicles operating 24\*7

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 4.1.4 - Total expenditure excluding salary for infrastructure augmentation during the year (INR in Lakhs)

7870.2 LAKHS

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS) and has digitisation facility

### DIGITAL LIBRARY

Digital Library comprises of 120 systems with Internet and Multimedia facility to access e-Resources for the benefit of the users. Also, it is stocked with 3500 CD/DVDs with e-content.

### REMOTE ACCESS & MOBILE APPLICATION

Central Library provides 24x7 services through Knimbus Remote Access and Mobile App.

### KNIMBUS E-LIBRARY PLATFORM:

It is a customized e-Library portal which provides the users all

the information available through the library on any device from anywhere.

#### M-LIBRARY APP:

Mobile e-Library App offers a multi-format content delivery app for our users to consume eBook collections, e-Course material, latest journal issues and multimedia learning content. Patrons can access the entire library on their smart phone irrespective of place and time.

#### MEMBERSHIP:

- DELNET - Developing Library Network
- MALIBNET - Madras Library Network
- Anna University Library Membership
- British Council Library Membership
  
- NDLI - National Digital Library of India
- Shodhganga
- E-ShodhSindhu

#### ICT BASED SERVICES IN LIBRARY:

1. E-Gate entry system is available with automatic scanner
2. Previous year E-Question papers are available for reference (past 10 years)
3. Usage of RFID Technology in all our library operations
4. RFID Antenna to avoid book theft
5. Library is under CCTV surveillance cameras
6. Web OPAC facility provides information of library holdings
7. Reservation facility for users
8. NPTEL video lectures - Hard disc connected with Institutional Repository
9. User feedback system is encouraged to get their valuable suggestions
10. Student Orientation programmes are conducted on a regular basis to create awareness among the students on the library facilities
11. E-resources access

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**4.2.2 - Institution has subscription for e-Library resources Library has regular subscription for the following: e – journals e-books e-ShodhSindhu Shodhganga Databases**

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

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**4.2.3 - Annual expenditure for purchase of books/ e-books and subscription to journals/e-journals during the year (INR in Lakhs)**

**1072.5 LAKHS**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**4.2.4 - Number of usage of library by teachers and students per day (foot falls and login data for online access)**

**499**

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**4.3 - IT Infrastructure**

**4.3.1 - Number of classrooms and seminar halls with ICT - enabled facilities such as LCD, smart board, Wi-Fi/LAN, audio video recording facilities during the year**

**262**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

4.3.2 - Institution has an IT policy, makes appropriate budgetary provision and updates its IT facilities including Wi-Fi facility

In order to procure, maintain and service the IT infrastructure, Sathyabama Institute of Science and Technology has a strong IT Policy in place. This policy provides the procedure and guidelines that govern the responsible usage information technology resources of the Institution. Every member/user of the Institution's IT resource is expected to be familiar with and adhere to this policy, and ensure that it is used for promoting the mission of the Institution towards teaching, learning, research, and administration. The policy intends to maintain, secure, and ensure legal and appropriate use of IT infrastructure established by the Institution on the campus. It provides guidelines for protecting the confidentiality, integrity, and availability of the information assets that are accessed, created, managed, and/or controlled by the Institution. Detailed policy can be found in [www.sathyabama.ac.in](http://www.sathyabama.ac.in).

Sathyabama makes appropriate provision for IT facilities in the budget. 5-10% of the revenue is spent on strengthening the IT infrastructure. Catering to the teaching-learning needs of students, faculty and research scholars, 600 Mbps of internet bandwidth is provided through Reliance JIO and BSNL, connected to all the terminals throughout the Campus.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 4.3.3 - Student - Computer ratio during the year

Number of students	Number of Computers available to students for academic purposes
12480	3800

#### 4.3.4 - Available bandwidth of internet connection in the Institution (Leased line) • ?1 GBPS

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**4.3.5 - Institution has the following Facilities A. All of the above**  
**for e-content development Media centre**  
**Audio visual centre Lecture Capturing**  
**System(LCS) Mixing equipment's and**  
**softwares for editing**

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Upload the data template	<a href="#">View File</a>

**4.4 - Maintenance of Campus Infrastructure**

**4.4.1 - Total expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the year**

**5304.97 LAKHS**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</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.

Sathyabama offers opportunity of quality education and research to all its faculty and students by rendering top notch infrastructure facilities. The Institution has well equipped computer laboratories with more than 3800 terminals with LAN networking. The entire campus is ICT enabled, with wi-fi connectivity and intranet facility.

The institution has well equipped laboratories and equipment in all departments. There are well laid policies and procedures for the purchase, maintenance, utilization and disposal of all software, hardware, mechanical equipment and chemicals. Planning and Monitoring Committee, Purchase Committee, Finance Committee are involved in the process of procurement and maintenance of all facilities.

The University has a Central Library spreading across an area of approximately 1, 50,000 sq. ft., and is well furnished with all resources including e-library resources.

- Continuous monitoring of the library's stack room and maintaining cleanliness and order in the shelves and stack rooms.
- Displaying of new books on the display rack and arrangement of the books on the shelves after use.
- Dusting and cleaning of library resources and the reading materials at periodic intervals
- Conservation and preservation of materials including repairs and binding.
- Stock taking and weeding-removing the old and obsolete documents from the stacks
- Sports facilities available in the campus include play courts, playgrounds for Volleyball, Basketball, Kabadi, Ball badminton, Tennis, Hand ball, Foot ball, Hockey, Kho-kho, Cricket and other indoor and outdoor games

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

## STUDENT SUPPORT AND PROGRESSION

### 5.1 - Student Support

**5.1.1 - Total number of students benefited by scholarships and free ships provided by the institution, Government and non-government agencies (NGOs) during the year (other than the students receiving scholarships under the government schemes for reserved categories)**

1174

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**5.1.2 - Total number of students benefited by career counselling and guidance for competitive examinations offered by the Institution during the year**

3290

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>



**5.1.3 - Following Capacity development and skills enhancement initiatives are taken by the institution Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) Awareness of trends in technology**

**A. All of the above**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**5.1.4 - The Institution adopts the following for redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organisation wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees**

**• All of the above**

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

## 5.2 - Student Progression

**5.2.1 - Number of students qualifying in state/ national/ international level examinations during the year (eg:NET/SLET/GATE/GMAT/CAT/ GRE/TOEFL/Civil Services/State government examinations)**

**5.2.1.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year**

**407**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**5.2.2 - Total number of placement of outgoing students during the year**

2162

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**5.2.3 - Number of recently graduated students who have progressed to higher education (previous graduating batch) during the year**

452

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**5.3 - Student Participation and Activities****5.3.1 - Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter -university/state/national/international events (award for a team event should be counted as one) during the year**

2

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**5.3.2 - Presence of Student Council and its activities for institutional development and student welfare****Student Council:**

Student Council of Sathyabama facilitate sharing of information between administrative officials and the students. Student Council serves as Communication Bridge between students and administrative officials and acts as a body facilitating primary level of communication . Student Council works with the following objectives:

- To promote an environment conducive to educational and personal

## development

- To support the management, administrative officials and faculty in the development of the institution by means of sharing the opinion/suggestion/feedback of the council
- To represent the views of the students on matters of general concern

Student council encourages student participation in various self-development, inter and intra institution competitions. Student Council is involved in planning, organizing and conducting of various cultural, sports, social, recreational and other educational programmes for the students. Student council disseminates information about the National level competitions such as HACKATHONS and MARATHONS and motivates students to perform well in these activities. Students' direct involvement in organizing and conducting various events contributes to the development of leadership and other managerial skills.

Any issues pertaining to students are solved by utilizing the ideas and support of the students, which develops a sense of responsibility in students.

<https://www.sathyabama.ac.in/sites/default/files/2021-04/STUDENT%20COUNCIL%20GUIDELINES.pdf>

Student Council | Sathyabama Institute of Science and Technology  
(Deemed to be University)

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 5.3.3 - Number of sports and cultural events / competitions organised by the institution during the year

28

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 5.4 - Alumni Engagement

5.4.1 - The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and other support services during the year

Sathyabama has a strong Alumni Association which was established by our Founder Chancellor Col. Dr. Jeppiaar in the year of 1993. Since its inception, the Association continues to foster meaningful relationship with the Institution and has been a strong support to the Institution in its journey towards success. One of the main purposes of the alumni association is to support the network of former graduates who in turn help to enhance the profile of the university. Alumni working with Industries and Leading Multinational companies significantly contribute in the curriculum development process as their inputs are considered while designing or revising the curriculum of our institution. They support us in designing our curriculum on par with international standards.

Our placement Cell takes the support of our alumni in creating awareness among students about career prospects through interactions with alumni. Alumni are frequently invited to the Institution to meet and discuss with students and mentor them. They provide career guidance to students and help them to prepare for a successful career.

Our alumni, working across the globe are our ambassadors. They are occupying good positions and give all possible support to our institution. Whenever there is a need for human resources in their organisation, they give preference to our institution and select our students who meet their requirements.

We are following Outcome Based Education, Feedback from alumni is sought to evaluate the attainment of Programme Outcomes (PO), which carries 30% weightage in the process of evaluation.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**5.4.2 - Alumni contribution during the year**      A. ? 5Lakhs  
(INR in Lakhs)

File Description	Documents
Upload relevant supporting document	No File Uploaded

## GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 - Institutional Vision and Leadership

6.1.1 - The institution has a clearly stated vision and mission which are reflected in its academic and administrative governance

Sathyabama Institute of Science and technology has well defined vision and mission statements reflecting its commitment towards producing world class talents , achieving excellence in education and research. Inorder to achieve the mission, strategic committees are in place to forecast, plan, implement and control the academic and administrative activities. The committees which guide and monitor the growth engine of the institutionare Board of Management, Finance Committee, Academic Council, Board of Studies, Department Advisory Committee and Program Assessment Committee.

The responsibilities of administrative and academic bodies are clearly defined and the work culture prevailed in the institution is completely transparent.The Board of Management is the principal organization of Management and principal executive body of Sathyabama Institute of Science and Technology.Composition of the Board of Management and Finance Committeeis as under Section 10.05 of the Memorandum of Association (MoA) as per the UGC regulation for Deemed to be University as on 19th July 2019.The Academic Council is the principal academic body which is responsible for the maintenance of standards of teaching and research exercising such powers and perform other duties and functions as may be prescribed or conferred upon it by the Rules of the institution.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

6.1.2 - The effective leadership is reflected in various institutional practices such as decentralization and participative management

The Vice-Chancellor(VC) is the Principal Executive Officer of the institution and exercises general supervision and control over the affairs of the institution and is mainly responsible for implementation of the decisions with respect to functioning of the institution. The VCexercises all other powers as delegated by the Board of Management and has power to re-delegate some of the powers to any of his/her subordinate officers with the concurrence and approval of the Board of Management.

There is a Core Team, which functions under the guidance of Vice Chancellor and Pro Vice Chancellors. Members of the Core Team are drawn across the departments, from different levels including Assistant Professors, Associate Professors, Professors, and Heads of the Departments and Deans of the Schools. The Core Team is involved in all the major activities of the Institution that directs the institution towards the achievement of strategic goals. The main objective of the team is to support the stakeholders of the Institution in all the initiatives taken for the growth and development of the Institution. This Team is primarily responsible for leading everyone towards the achievement of the strategic goals and mission of the Institution. The Core Team members display leadership qualities when they lead and guide their respective extended team members, which is the most important reason for the successful functioning of the Team in the institution.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

## 6.2 - Strategy Development and Deployment

### 6.2.1 - The institutional Strategic plan is effectively deployed

The 2016-2020 Strategic Plan was successfully translated into action and the Institution has excelled in many areas and grown as a Premier Institution.

- NAAC 'A' Grade in 2017.
- Conferred with 12B status by the University Grants Commission.
- Secured various Awards, Ratings and Rankings by NIRF, QS and Diamond Ratings by QS I-Gauge Sathyabama was awarded with four star ratings by QS, ARIIA, Times Higher Education, and Times Higher Education Impact Rankings, E-Lead Certification.
- Sathyabama has successfully launched SATHYABAMASAT, a Nano satellite developed by the faculty and students collaborating with ISRO, in 2016.
- The Institution has established Centres of Excellence in Animal Research, MHRD sponsored Centre of excellence for Energy Research under the FAST Scheme. The Institution has



established Earth Science Technology Cell sponsored by MoES in association with NIOT and CMLRE for Marine Biotechnological Studies.

- Intellectual Property Cell has been established to support the innovators in patenting process. 168 patents were filed and 44 patents were granted during the period 2016-2020.
- Bio Safety Labs with Clean Room ISO 7 Specifications was established to promote high end research on herbal based drug for Tuberculosis, HIV and Dengue.
- New Programmes were introduced.
- More than 6000 Publications were made by the faculty members and research scientists and the H Index of the Institution rose to 62.
- 45 Crores worth fund generated through Research and Development projects.
- 120 MoUs were signed with companies and Universities at national and international level in order to facilitate.
- The Institution has established a NEXTGEN Lab with advanced technologies

File Description	Documents
Upload relevant supporting document	<a href="#">View File</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.

The Board of Management, Finance Committee, Planning and Monitoring Board and the Academic Council are the committees established to monitor the growth of the institution. The responsibilities of the administrative and academic bodies are clearly defined. The committees which facilitate the effective functioning of the Institution are Board of Management, Finance Committee, Planning and Monitoring Committee, Academic Council, and Internal Quality Assurance Cell(IQAC). The responsibilities of administrative and academic bodies are clearly defined and well laid policies are in place, which facilitate efficient and effective functioning of the organization.

The Vice Chancellor(VC) is the Principal Executive Officer of the institution and exercises general supervision and control over the affairs of the institution and is mainly responsible for implementation of the decisions of all the authorities of the institution. VC exercises all other powers as delegated by the Board of Management and has power to re-delegate some of the powers to any of his/her subordinate officers with the concurrence



and approval of the Board of Management.

The Internal Quality Assurance Cell (IQAC) is responsible for the adherence of quality assurance processes, preparation of policies, and implementation of tools, and techniques for quality improvement. IQAC is in charge of co-ordinating and monitoring the overall quality of the institution.

The employment policies are well defined in the service rules of the university and it is available in the university website. Service rules of the Institution are in line with the procedure and guidelines prescribed by the UGC Regulations.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 6.2.3 - Institution Implements e-governance in its areas of operations

6.2.3.1 - e-governance is implemented covering following areas of operation **A. All of the above**

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

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has a performance appraisal system, promotional avenues and effective welfare measures for teaching and non-teaching staff

Sathyabama has a standard performance appraisal system which evaluates the performance of the teaching and research faculty. The Institution uses a tool known as Sathyabama Score SScore to evaluate the performance of the Academic and Research Faculty. Performance of the staff is objectively evaluated at the end of each academic year using SScore, assessed based on their contribution to academics, research and social outreach. The most important quantitative indicators like innovative teaching pedagogy adopted, teaching materials prepared, student feedback,

publications in high impact factor journal, research grants received, patents, books authored, consultancy provided, participation in workshops and faculty development programmes and fellowships received. The scores are used to evaluate the faculty's performance in various key result areas like research, publication, consultancy etc. The score secured by each faculty member is then converted into monetary value by multiplying the score with the value assigned for each score. A review committee constituted by Vice-Chancellor shall review the performance of every faculty member and recommend annual increment/Promotion/Career Advancement (as per UGC norms) if it is due to him/her and his/her performance is good.

### Welfare Measures

Happy and motivated employees achieve great heights and take the institution to the next level. Staff members of are grouped into three categories viz. Teaching/Research and Teaching/Other, Administrative Staff and Technical Staff. Various welfare measures are detailed in the service policy of the university ([https://www.sathyabama.ac.in/service\\_policy](https://www.sathyabama.ac.in/service_policy))

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 6.3.2 - Total number of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

117

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 6.3.3 - Number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the year

65

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 6.3.4 - Total number of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the year(Professional Development Programmes, Orientation / Induction Programmes Refresher Course, Short Term Course)

711

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 6.4 - Financial Management and Resource Mobilization

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

The funds required for the Institution is mobilized primarily from three sources, namely, Tuition Fee from the students, Consultancy work and the resources from the Sponsoring Trust, Sathyabama Institute of Science and Technology Trust. Tuition Fee accounts for 98% to 99% of the total funds, which will be approximately 250 crores every year.

The VC along with the purchase committee and Finance Committee monitors the utilization of the funds.

For effective monitoring, comparative statements are being prepared every year and they are analyzed. Periodical audits are conducted for proper accounting of fund utilization.

Funds generated through consultancy offered: The University is actively involved in multidisciplinary areas of research and promotes engagement with industries through consultancy services. The research and consultancy activities are taken up by the dynamic faculty members of the University.

Funds are allocated for effective teaching learning process, infrastructure, inter-disciplinary activities, training on co-curricular and extracurricular activities, industry academia interactions, procurement of enterprise software, ERPs, improvement of library facilities, and technology up gradation,

based on the requirements projected by the departments. Staff rooms, classrooms, and smart classrooms are constructed or renovated annually.

Funds are allocated for setting up Centre of Excellence and laboratories for faculty and students to apply and practice technology principles and standards. Sathyabama promotes innovation eco system by supporting incubatees and their transformation into successful entrepreneurs by funding innovative ideas of students.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 6.4.2 - Funds / Grants received from government bodies during the year for development and maintenance of infrastructure (not covered under Criteria III and V) (INR in Lakhs)

340.02

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 6.4.3 - Funds / Grants received from non-government bodies, individuals, philanthropists during the year for development and maintenance of infrastructure (not covered under Criteria III and V)(INR in Lakhs)

0

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

#### 6.4.4 - Institution conducts internal and external financial audits regularly

Sathyabama follows best financial management practices and has an established mechanism to conduct periodical internal and external financial audits. Accounts department ensures the proper maintenance of accounts and audits. The finance committee is headed by the Vice Chancellor of the University and meets twice a year to deliberate the financial planning of the Institution. Institution's strategic plan serves as a base to predict the

expenses under major heads like infrastructure development, research facilities etc.

The Institution conducts Internal audit once in three months in order to verify the credentials recorded in the Tally software and the actual expenditure. Further, two internal audit reports are being placed before the Finance Committee for the purpose of periodical evaluation. The internal audits are done by the internal auditor annually. The observations, objections, suggestions are communicated to the department heads, IQAC and administrative head of the Institution. The finance committee headed by the Vice Chancellor examines these observations and suggest remedial measures. The compliance report and the accounts are then validated by the external auditor. External audit is being carried by Ms. Ramakrishnan and Company, Chartered Accountant for the purpose of consolidation and to file the Income Tax Returns. Copies of the Audited Statements are attached with this content. The annual report is discussed in the board of management meeting every year.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</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 by constantly reviewing the teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals

The Internal Quality Assurance Cell (IQAC) plays a vital role in maintaining and enhancing the quality of the institution and suggests quality enhancement measures to be adopted. The IQAC works towards maintaining the quality of education, identifying and suggesting new ways of using teaching aids, developing appropriate infrastructure and offering suggestions for the new courses demand by the industries. The IQAC meets every quarterly to plan, direct, implement and evaluate the teaching, research and publication activities in the Institution. The initiatives taken by the IQAC was followed and implemented by the departments. The IQAC strives to spread quality culture through quality enhancement initiatives and best practices. Significant improvements in quality have been made by institutionalizing the following IQAC initiatives:

The Key areas are,

1. Academic results
2. Student Skilling / internship/ Project etc.
3. Student soft skills development
4. Placement Training
5. Faculty development programs
6. Research and development
7. Interaction with industry and MoUs
8. Preparation towards Rankings and Accreditation both national and International

IQAC reviews the teaching learning processes and take initiative for improving the curriculum and practicing new pedogogies . Feedback from different stakeholders are taken , analysed and the appropriate measures were taken to do the teaching learning process more effectively

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**6.5.2 - Institution has adopted the following for Quality assurance Academic Administrative Audit (AAA) and follow up action taken Confernces, Seminars, Workshops on quality conducted Collaborative quality initiatives with other institution(s) Orientation programme on quality issues for teachers and studens Participation in NIRF Any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)**

**A. Any 5 or all of the above**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

6.5.3 - Incremental improvements made for the preceding during the year with regard to quality (in case of first cycle) Post accreditation quality initiatives(second and subsequent cycles)

A number of post accreditation quality improvement initiatives have been taken in the following areas during the last five years:

#### Governance

- Creation of Post and appointment of Pro Vice Chancellor
- Project Management System (PMS)
- ISO

#### Participation in National Missions

- Swachh Bharat Mission
- Skill India Mission
- Renewable Energy
- Make in India
- Digital India
- BetiBachaoBetiPadhao Abhiyan
- Unnat Bharat Abhiyan

#### Curriculum

- Introduction of new Programmes - Nursing, Pharmacy, Law
- Curriculum focussing on skill development
- Curriculum focussing on values based education
- Outcome Based Education
- Multidisciplinary curriculum
- Complete Adoption of Choice Based Credit System

#### Partnerships

- MoUs with Universities across the world for collaborative activities like student exchange, faculty exchange, joint research etc.
- MoUs with Industries to initiate joint academic programmes and training programmes.



### Extension Activities

- Tree Plantation
- School Adoption
- Village adoption

### Green Initiatives

- Use of Battery operated Vehicles to commute within the campus
- Use of solar energy
- Green Audit
- Preparation of Sustainability Report
- Policies on SDGs
- Participation in Rankings relating to sustainable development

### Infrastructure Development

- Open Air Auditorium
- Indoor Gymnasium
- Wifi Connectivity
- Research Centres/Laboratories
- Information Communication Technologies Assisted Language Lab.
- Biomedical Laboratory
- Digital Infrastructure - Learning management system, Remote access to library, Remote laboratory

Actions were taken by IQAC during the post accreditation period, on the observations of NAAC during the Assessment.

As a quality measure and in line with the direction of University Grants Commission (UGC), Sathyabama has adopted Choice Based Credit System (CBCS).

### Initiated:

- International Collaborations
- ICT Initiatives
- Digital Initiatives
- Biometric Attendance

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

## 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 year

Sathyabama takes consistent efforts to promote gender equity. It provides an enabling environment for female students and employees.

The Institution has a Gender Equity policy in place and is founded on the basic principles of respect and tolerance for everyone that facilitates gender equality and diversity. All Employees and students are treated equally.

Following are some of the measures taken to promote gender equity:

- Sensitization programmes were conducted on issues related to gender equity, women empowerment etc.
- Women Empowerment Bureau has organised training programmes, seminars and workshops to students on gender equity
- Awareness programs were organized to the students on legal protections available to girls.
- Female employees are provided maternity leave, child care leave and are also entitled to avail leave on adoption of child.
- There are a significant number of women cadets in the NCC unit. Indoor & outdoor games for Men & Women students and staff were held on various occasions.
- Internal Complaints Committee (ICC) is constituted in the Institution to deal with the complaints of sexual harassment of women staff and students. ICC works for the prevention of discrimination and sexual harassment against girls by promoting gender equity among students and employees.
- The Day Care Centre was established to support women employees.
- Committees such as Anti - Ragging Committee, Students Grievance

Committee and Discipline Committee provide quick relief to the grievances of girl students and ensure the maintenance of decent and safe environment within the campus

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Annual gender sensitization action plan(s)	<a href="https://www.sathyabama.ac.in/academics/iga_c">https://www.sathyabama.ac.in/academics/iga_c</a>
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common rooms d. Daycare Centre e. Any other relevant information	<a href="https://sist.sathyabama.ac.in/sist_naac/facilities/SIST_Facilities.pdf">https://sist.sathyabama.ac.in/sist_naac/facilities/SIST_Facilities.pdf</a>

**7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation** Solar energy **Biogas plant** Wheeling to the Grid **Sensor-based energy conservation** Use of LED bulbs/**power-efficient equipment**

**A. Any 4 or All of the above**

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words)** Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

Being an environmentally conscious Institution, Sathyabama follows the best waste management practices and the solid waste, liquid waste, e-waste and other wastes are properly managed and disposed in an eco-friendly manner. The Institution has constituted Internal and External Waste Audit Committees which conducts waste audit.

**Solid waste management**

Bio degradable and non-bio degradable wastes are segregated separately in the campus and bio degradable wastes are used as food for cattle and used as manure for the plants and trees. Non bio degradable wastes are disposed through the Chennai

## Metropolitan waste disposal methods.

### Liquid waste management and Waste Water Recycling

A Sewage Treatment Plant of 1.5 MLD capacity is constructed in the campus for proper treatment, disposal and reuse of waste water. The treated water is reused for gardening purpose and in toilets for flushing.

The Centre for Waste Management is involved in research relating to effective management of waste, waste reduction and conversion of waste into energy.

### Biomedical waste management

The biomedical waste generated are properly segregated and disposed. A register is maintained for recording biomedical wastes. Cytotoxic drugs were segregated according to BMW rule 2016 and the biomedical waste is segregated into colour coded bags and sealed before handing over to the authorized handler.

### E-waste management

E- Waste is managed in compliance with the E-Waste Management Rules 2016. E-Waste generated is channelized through authorized recycler for treatment, dismantling and disposal. M/S Earth Sense Recycle Pvt Limited, Chennai is the authorized recycler who collects the E-waste

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**7.1.4 - Water conservation facilities available in the Institution:** Rain water harvesting  
Bore well /Open well recharge  
Construction of tanks and bunds  
Waste water recycling  
Maintenance of water bodies and distribution system in the campus

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**7.1.5 - Green campus initiatives include**

**7.1.5.1 - The institutional initiatives for greening the campus are as follows:**

**A. Any 4 or All of the above**

- 1. Restricted entry of automobiles**
- 2. Use of bicycles/ Battery-powered vehicles**
- 3. Pedestrian-friendly pathways**
- 4. Ban on use of plastic**
- 5. Landscaping**

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution**

**7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:**

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

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

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**7.1.7 - The Institution has a disabled-friendly and barrier-free environment Ramps/lifts for easy access to classrooms and centres. Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.**

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

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words)

Sathyabama is an inclusive Institution, committed to provide quality education to everyone that include diverse ethnic, religious, socio-economic, cultural group without discrimination. The institution promotes the principle of unity in diversity, and policies like Anti-discrimination policy and Minority protection policy are in place which aims at protecting minority interests and promoting diversity and inclusiveness of the Institution

On Fridays' Muslim students are allowed to worship in Mosque outside the campus. Sunday worship service is conducted in the Chapel situated within the campus. Students from various religions have separate prayer halls and all religious festivals are celebrated by the Institution.

Festivals like Ayudha Pooja, Diwali, Christmas, Ramzan, Bakrid, Pongal, and other festivals are celebrated in the Institution with zeal and energy, instilling a sense of unity among students and faculty. All the students are encouraged to come with traditional dresses representing their ethnicity and culture during the festivals and celebrate together appreciating the diversity. Cultural festivals are regularly organised, to showcase the culture of from different regions and communities.

Socially and economically backward students are provided opportunity to study in the Institution with full scholarship. Students and teachers are motivated to come up with innovative projects and solutions to societal challenges, which are funded by the Institution.

The Institution is inclusive for students with special needs too. Physically challenged, hearing impaired, visually impaired and students with learning disabilities are provided opportunity to study along with other students.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>



7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

Sathyabama has always been an Institution that respects the constitutional rights and obligations and provides promotes an environment where the students and employees understand their role in safeguarding the constitutional obligations.

The Institution conducts awareness campaigns, orientation programmes, training programmes, seminars and workshops to sensitize the students and employees to understand the constitutional obligations. Seminars, workshops, debates, essay competitions and elocution competitions are organised on topics like Ethical Values, Fundamental Duties and Rights and obligations of Indian Citizens. The students are encouraged to participate in conferences, expert talks, poster making competition and other competitions on various contemporary legal issues.

Institution celebrates the Constitution Day on 26th November to commemorate the adaptation of the Constitution of India and to spread the Constitutional values and ideals amongst students.

Republic Day is celebrated on 26th January in a grand manner. Parades and other competitions on patriotic themes are organized to develop patriotism and love for the motherland.

The Institution designs various activities to create awareness about the national identity and symbols. Cultural programs and events are organized which aims at highlighting the constitutional spirit of liberty, equality, justice and fraternity.

The curriculum of some of the programmes are designed with courses like introduction to Constitution of India, Gandhian Economic Thought, Moral Philosophy, Practical Ethics, Value Education, Philosophy of Human Rights and Applied Philosophy as a small step to inculcate constitutional obligations and values, rights, duties and responsibilities of citizens among the students.

**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. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for** All of the above



**students, teachers, administrators and other staff Annual awareness programmes on Code of Conduct are organized**

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

Sathyabama Institute of Science and Technology celebrates commemorative national and international days, festivals and events. The Institution has a list of faculty members who are assigned the task of organizing commemorative national and international days, festivals, and events within the campus. The following events were organised during the academic year June 2020-May 2021.

#### Festivals

Pongal, Ayudha Puja, Onam and Christmas celebrations were organized following the COVID prevention protocols.

#### National Days of Importance

Independence Day, Madras Day, Republic Day, National Safety Week, National Science Day, Teachers Day.

#### International Days of Importance

International Nurses Day, Sea Grass Awareness Week, International Women's Day, World Tuberculosis Day.

## Part B

### CURRICULAR ASPECTS

#### 1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes(PSOs) and Course Outcomes(COs) of the Programmes offered by the University

New programs are introduced based on the regional, national and global needs. Industry 4.0, Design thinking and innovation, Critical thinking etc. were introduced to all the engineering programs in order to provide exposure to Industrial IoT, Artificial Intelligence, Cyber security, Data science and Block chain technologies. Curriculum is designed based on the expected learning outcomes that cover the knowledge, skills and attitudes of the student. Attainment of Course Outcomes (COs), Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) are calculated by including the indirect methods through stakeholders survey. The attainment of all the program outcomes ensures that the curriculum and the teaching learning process are aligned with the graduates attributes.

#### Salient features of our curriculum

- Accommodates credit transfer programs like Semester Abroad Programme, Internships Abroad etc.
- Curriculum follows CDIO framework
- Universal Human Values, is offered as a 3 credit course in all our programmes
- NSS/NCC/YRC form a part of our curriculum as Non Credit Course.
- Industry tailored courses as electives for engineering students
- Curriculum enabling Experiential Learning
- Value added courses and employability oriented certification courses.
- Students can earn credits by enrolling in MOOC courses like NPTEL, SWAYAM, Coursera etc.

Seminar course in Post Graduate Curriculum to enhance the interpersonal skill.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**1.1.2 - Number of Programmes where syllabus revision was carried out during the year**

32

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**1.1.3 - Total number of courses having focus on employability/ entrepreneurship/ skill development offered by the University during the year****1.1.3.1 - Number of courses having focus on employability/ entrepreneurship/ skill development during the year**

1398

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**1.2 - Academic Flexibility****1.2.1 - Number of new courses introduced of the total number of courses across all programs offered during the year**

232

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**1.2.2 - Number of Programmes in which Choice Based Credit System (CBCS)/elective course system has been implemented during the year**

64

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</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

The Institution has prescribed courses for all engineering programs relevant to gender, environment and sustainability, human values and professional ethics, Environmental Science, Constitution of India and Professional Ethics. Students will be able to understand the importance of ethics and values in their personal, social and professional life after studying these courses. The courses are offered with the aim to inculcate values and develop ethical competence among the students.

Courses such as Environment and Sustainability, Sustainable architecture, environmental ethics, Energy and Environment management etc. form an integral part of the curriculum to create awareness about the importance of environment among students. The Institution organizes.

Courses such as Social Welfare and Social Legislation in India, Environmental Laws, International Relations, Professional Ethics and Professional Accounting, Women and Criminal Law, Penology and Victimology, Gender Justice and Feminist Jurisprudence, Offenses against Child and Juvenile offenses provide knowledge about the various legislations and make students understand the importance of human values and ethics in life. Gender related course titled "Feministic Jurisprudence" is offered for students studying Law.

Moral Values, Human Values and Professional Ethics are taught in the induction programme when the students join the Institution.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year**

91

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**1.3.3 - Total number of students enrolled in the courses under 1.3.2 above****1.3.3.1 - Number of students enrolled in value-added courses imparting transferable and life skills offered during the year**

11549

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**1.3.4 - Number of students undertaking field projects / research projects / internships during the year**

7893

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**1.4 - Feedback System****1.4.1 - Structured feedback for design and review of syllabus – semester wise / is received from Students Teachers Employers Alumni**

- All 4 of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**1.4.2 - Feedback processes of the institution**

- Feedback collected, analysed

may be classified as follows

and action taken and feedback available on website

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

## TEACHING-LEARNING AND EVALUATION

### 2.1 - Student Enrollment and Profile

#### 2.1.1 - Demand Ratio

##### 2.1.1.1 - Number of seats available during the year

4587

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

##### 2.1.2 - Total number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per applicable reservation policy during the year (Excluding Supernumerary Seats)

##### 2.1.2.1 - Number of actual students admitted from the reserved categories during the year

0

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</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

The institution has effective diagnostic process and remedial measures in place to support advanced learners and slow learners. The students are categorized based on their performance in the entry level exams, diagnostic tests conducted in the first year. The students are continuously monitored based on their performance in the CAE and ESE examinations every semester.

Bridge courses are conducted for slow learners in order to support them to meet the demands of the curriculum. They are provided support in the form of remedial classes, counselling and additional teaching hours. Compensatory classes are conducted for students who could not match the pace of regular classes. These strategic approaches resulted in improved domain understanding by the students. The individual skill set of students are identified and to participate in various activities, symposiums etc. based on their interest and knowledge.

The advanced learners are encouraged through merit awards, scholarships, semester abroad exchange programmes, participation in hackathons, present techtalks. Remibai Jeppiaar scholarships are given to toppers of every year.

Project Innovation and Development Centre (PRIDE) is an initiative to foster product building passion among all students. Students with product ideas are supported with mentorship, technology, consultancy to build prototypes of designed products

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Link For Additional Information	<a href="https://sathyabama-startup.com">https://sathyabama-startup.com</a> , <a href="https://www.sathyabama.ac.in/campus-life/student-zone/skill-development-centre">https://www.sathyabama.ac.in/campus-life/student-zone/skill-development-centre</a>

### 2.2.2 - Student - Full time teacher ratio during the year

Number of Students	Number of Teachers
12480	725

File Description	Documents
Upload relevant supporting document	<a href="#">View File</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



Sathyabama Institute of Science and Technology strongly believes in "Learning by Doing". With this motto in mind, curriculum is framed in such a way that the student learns from practice in contrast to conventional methodology of uncovering the concepts.

#### Experiential learning

Our courses designed with Problem based Learning approach helps students in learning the concepts by understanding from the prototypes they have developed. Design thinking is one such course introduced by our institution.

#### Experimental Learning

60% of the courses have a related laboratory course where the students learn through experimental learning. Laboratory programs are classified into closed, semi open, open ended and complex engineering problems. Students gain knowledge in the design and implementation of circuits.

#### Participatory Learning

Teachers enhance the students by making them participate in Internet Hunt, Reacting to situations, Role play, Group Discussions, Just a Minute, Quiz, Hackathon, Robotic/Drone contests, Go Kart etc.

#### Problem Solving Methodologies

Students develop the ability to convert a real time problem into solvable problem statement, analyse various solutions, select suitable solution in terms of cost and quality, develop a prototype and implement the same. Technology Business Incubators at our university provides mentoring support as well as financial support to students for innovative products

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

2.3.2 - Teachers use ICT enabled tools including online resources for effective teaching and learning processes during the year

The various ICT tools used in the campus are listed as follows

1. LCD Projectors- Available at all classrooms, demonstration rooms and laboratories
2. Desktops - Available at department laboratories, faculty cabins and HOD cabins.
3. Smart boards- Smart boards are installed at all the Smart classrooms in the campus
4. 149 Licenced Zoom logins
5. Sathyabama Learning Management System (LMS)
6. Access to MOOC platforms like NPTEL, Swayam etc.,
7. Sathyabama Youtube Channel hosting prominent lectures of the faculty and Media lab facility to create video lectures
8. Remote access to Digital library resources through Knimbus mobile application
9. Online Examination Conduction through AMCAT service provider

Tools used for the teaching learning processes as follows

E Platform -Sathyabama LMS:

The faculty members and students use Sathyabama LMS for teaching-learning purpose. Students' activities are monitored through LMS.

E- resources- Digital Library - M Library

Faculty and students can access the online digital resources of all the subscribed journals, magazines, reference and text books through the Knimbus mobile app from anywhere.

E- lecture platform - Zoom

Online live lectures, viva voce examinations, video conferencing and discussions, placement training, formal meetings are held through Zoom platform. Polls and quizzes are conducted in Zoom to make the classes interactive and participative.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 2.3.3 - Ratio of students to mentor for academic and other related issues during the year

#### 2.3.3.1 - Number of mentors

<b>624</b>	
File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
<b>2.4 - Teacher Profile and Quality</b>	
<b>2.4.1 - Total Number of full time teachers against sanctioned posts during the year</b>	
<b>725</b>	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>2.4.2 - Total Number of full time teachers with Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit. during the year</b>	
<b>561</b>	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<b>No File Uploaded</b>
<b>2.4.3 - Total teaching experience of full time teachers in the same institution during the year</b>	
<b>2.4.3.1 - Total experience of full-time teachers</b>	
<b>4687</b>	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>2.4.4 - Total number of full time teachers who received awards, recognition, fellowships at State, National, International level from Government/Govt. recognised bodies during the year</b>	
<b>106</b>	

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 2.5 - Evaluation Process and Reforms

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

Nil

#### 2.5.1.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results year wise during the year

14

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 2.5.2 - Total number of student complaints/grievances about evaluation against total number appeared in the examinations during the year

52

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

2.5.3 - IT integration and reforms in the examination procedures and processes (continuous internal assessment and end-semester assessment) have brought in considerable improvement in examination management system of the institution

The Examination reforms are formulated in accordance with the recommendations of AICTE. OBE frame work for assessment has been incorporated into our examination system.

The following significant reforms were effected in the Examination system:

- Credit system was introduced for the benefit of the students and Grade system is followed
- Students are continuously assessed through Continuous

Internal Assessment (CAE), which is conducted twice a semester for each course and End Semester Exam is conducted for each course

- Periodical assignments, presentations, project work, tests and quizzes are made part of assessment and are used to assess the performance of the students and attainment of Course Outcomes.
- Integration of ICT Tools for the conduct of examinations, evaluation and declaration of results.

#### Impact of the Reforms

- Continuous and comprehensive evaluation of the students throughout the semester.
- Assignments, presentations, project work, tests and quizzes results in Improvement of the critical thinking, problem solving and decision making skills of students.
- Declaration of results within the stipulated time.
- Reduction in the malpractices
- Improvement in reliability, efficiency, security, transparency, confidentiality, and accuracy in the entire process.
- Timely publication of results and issuing necessary certificates in time helps final year students in their placements and higher studies.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 2.5.4 - Status of automation of Examination division along with approved Examination Manual

A. 100% automation of entire division & implementation of Examination Management System (EMS)

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 2.6 - Student Performance and Learning Outcomes

2.6.1 - The institution has stated learning outcomes (generic and programme specific)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents

Sathyabama Institute of Science and Technology has adopted Outcome Based Education and six of our Undergraduate programs are accredited by National Board of Accreditation. Generic Program Outcomes (POs) as defined by NBA , Programme Specific Outcomes (PSOs) as defined by the department and the Programme specific criteria as expected by the professional bodies like IEEE, ISTE and ASME are mapped with the courses of every programme.

POs and PSOs are made public to the stakeholders and are available in the following:

- Institution's website
- Institution's Newsletters
- Students' notebooks
- Faculty log books
- Department notice boards
- Laboratories
- Syllabus books/ soft copies of the syllabus containing POs and PSOs of all programmes are made available in the website of the Institution

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

2.6.2 - Attainment of Programme outcomes, Programme specific outcomes and course outcomes are evaluated by the institution during the year

A systematic approach is followed for the attainment of COs and POs/PSOs. Department Advisory Committee (DAC) and Program Assessment Committee (PAC) periodically review and set the threshold for CO and PO/PSO attainment. Internal and external audit committees meet yearly once respectively and review the CO/PO/PSO attainment, measures taken against the non-met POs and the impact analysis of the action. CO attainment is calculated for the courses in that semester and at the end of the programme, PO/PSO attainment is calculated. Discrete formulae are framed for CO attainment and PO/PSO attainment.

Course Outcomes are framed and finalized after deliberations with department level committee, discussed in BoS and embedded in the syllabus. Questions in the CAE and ESE are mapped with the Course Outcomes. PAC meets twice in each semester and reviews

the CO mapping with the questions in CAEs and in assignments.

Direct assessment tools:

- CIE (CAE+ Assignments) and ESE for theory courses
- Model and End Semester Examinations for practical courses
- CIE and Project evaluation for PBLA courses
- Reviews and Viva voce for Design Thinking, Interdisciplinary projects and final year projects (Phase I and Phase 2)
- Oral presentation for Professional training Courses and credit mapping for NPTEL/Certification courses/Personality Development Tests.

Indirect assessment tools:

- Course End Survey
- Graduate Exit Survey
- Alumni survey
- Employer survey

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 2.6.3 - Number of students passed during the year

#### 2.6.3.1 - Total number of final year students who passed the university examination during the year

3290

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 2.7 - Student Satisfaction Survey

#### 2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a web link)

[https://sist.sathyabama.ac.in/download/igac/SSS\\_2020-2021.pdf](https://sist.sathyabama.ac.in/download/igac/SSS_2020-2021.pdf)



**RESEARCH, INNOVATIONS AND EXTENSION****3.1 - Promotion of Research and Facilities**

3.1.1 - The institution Research facilities are frequently updated and there is well defined policy for promotion of research which is uploaded on the institutional website and implemented

Sathyabama Institute of Science and Technology's activities are aimed at developing excellence in Science & Technology through competitive academic and research environment, linkages with the industry and leading academic and research institutions.

Sathyabama Institute of Science and Technology gives more emphasis to research as it is aware of the significance of research for sustainable growth and development. To address the global challenges with respect to social, economic and environmental issues, the Institution is involved in breakthrough research and innovation in the thrust areas of Science and Technology. The Institution has world class research facilities that complement and augment the research strength of the Institution. Research facilities including laboratories and advanced equipment are regularly upgraded. There is a policy in place for the promotion of research in the Institution and it is uploaded on the institution's website

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**3.1.2 - The institution provides seed money to its teachers for research (amount INR in Lakhs)**

**381.6 LAKHS**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.1.3 - Number of teachers receiving national/ international fellowship/financial support by various agencies for advanced studies/ research during the year**

**12**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.1.4 - Number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other research fellows enrolled in the institution during the year

31

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.1.5 - Institution has the following facilities to support research**  
**Central Instrumentation Centre**  
**Animal House/Green House**  
**Museum Media laboratory/Studios**  
**Business Lab Research/Statistical Databases**  
**Moot court Theatre Art Gallery**

A. Any 4 or more of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 3.1.6 - Number of departments with UGC-SAP, CAS, DST-FIST, DBT, ICSSR and other recognitions by national and international agencies during the year

10

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 3.2 - Resource Mobilization for Research

**3.2.1 - Extramural funding for Research (Grants sponsored by the non-government sources such as industry, corporate houses, international bodies for research projects) endowments, Chairs in the University during the year (INR in Lakhs)**

58.7 Lakhs

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.2.2 - Grants for research projects sponsored by the government agencies during the year (INR in Lakhs)

1505.3 lakhs

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.2.3 - Number of research projects per teacher funded by government and non-government agencies during the year

1

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 3.3 - Innovation Ecosystem

3.3.1 - Institution has created an eco-system for innovations including Incubation centre and other initiatives for creation and transfer of knowledge

Sathyabama has its fully functional incubation centre(<http://www.sathyabamatbi.in/>) with its preincubation facilities, mentoring support, Intellectual property management with periodical trainings. Dot2globe Solutions India Private Limited, CZ Smart mobility, Highavenue creative labs private limited, Imagine Trend, DataXtech Info System are few of the incubated companies under Sathyabama Technology Business Incubator. Periodical seminars, workshops and trainings are offered for a broader understanding and self discovery.

To involve and increase the involvement of students and faculty in the innovation and entrepreneurial arena, National Innovation and Startup Policy was initiated and implemented (<https://sathyabama-startup.com/>).Sathyabama Institute

Innovation and Start Up policy for students and faculty, intends to strengthen the innovation and start up eco system in the campus, enhance institute partnership with eco system enablers, mentor and nurture the innovative ideas of students and faculty, provide networking for funding and transform them to successful start up entrepreneurs. An exclusive Institute startup policy for the students and faculty of Sathyabama, includes acquiring credits through start up activities, trainings and value added courses, creating the entrepreneurial eco system at the student and faculty level. Preincubation and incubation services including seed funding, legal and patent support, provision of physical space and logistic services, IP services are currently in place to support student and faculty innovations in specific.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

281

#### 3.3.2.1 - Total number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development year wise during the year

281

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

### 3.3.3 - Number of awards / recognitions received for research/innovations by the institution/teachers/research scholars/students during the year

#### 3.3.3.1 - Total number of awards / recognitions received for research/innovations won by institution/teachers/research scholars/students year wise during the year

165

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.4 - Research Publications and Awards

#### 3.4.1 - The institution ensures implementation of its stated Code of Ethics for research

**3.4.1.1 - The institution has a stated Code of Ethics for research and the implementation of which is ensured through the following**

- 1. Inclusion of research ethics in the research methodology course work**
- 2. Presence of institutional Ethics committees (Animal, chemical, bio-ethics etc)**
- 3. Plagiarism check**
- 4. Research Advisory Committee**

**A. All of the above**

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**3.4.2 - The institution provides incentives to teachers who receive state, national and international recognitions/awards  
Commendation and monetary incentive at a University function  
Commendation and medal at a University function  
Certificate of honor  
Announcement in the Newsletter / website**

**A. All of the above**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 3.4.3 - Number of Patents published/awarded during the year

##### 3.4.3.1 - Total number of Patents published/awarded year wise during the year

**100**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.4.4 - Number of Ph.D's awarded per teacher during the year

#### 3.4.4.1 - How many Ph.D's are awarded during the year

143

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.4.5 - Number of research papers per teacher in the Journals notified on UGC website during the year

3

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.4.6 - Number of books and chapters in edited volumes published per teacher during the year

#### 3.4.6.1 - Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings during the year

262

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.4.7 - E-content is developed by teachers For e-PG-Pathshala For CEC (Under Graduate) For SWAYAM For other MOOCs platform For NPTEL/NMEICT/any other Government**

**A. Any 5 or all of the above**

**Initiatives For Institutional LMS**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.4.8 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed**

Scopus	Web of Science
2354	1405

File Description	Documents
Any additional information	<a href="#">View File</a>
Bibliometrics of the publications during the year	<a href="#">View File</a>

**3.4.9 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University**

Scopus	Web of Science
77	68

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	<a href="#">View File</a>
Any additional information	No File Uploaded

**3.5 - Consultancy**

3.5.1 - Institution has a policy on consultancy including revenue sharing between the institution and the individual and encourages its faculty to undertake consultancy

The institution values the effort of faculty undertaking consultancy activities carried outside the institution. This is an opportunity for knowledge transfer and expertise sharing to and from industries resulting in productive relationships. It is the the Institution's core policy to encourage consultancy activities by faculty within the contractual responsibilities



laid down by the University.

The university consultancy policy document has detailed laid out guidelines on the various aspects covered by consultancy projects/activities.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 3.5.2 - Revenue generated from consultancy and corporate training during the year (INR in Lakhs)

#### 3.5.2.1 - Total amount generated from consultancy and corporate training during the year (INR in lakhs)

110.24 LAKHS

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.6 - Extension Activities

3.6.1 - Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the year

The institute promotes regular engagement of faculty, students and staff with neighborhood community for their holistic development and sustained community development through various activities. Student Development Cell, NCC, NSS organizes various programmes every year.

Various awareness programs, workshops, rallies and road shows with themes like cleanliness, green environment & tree plantation, gender sensitization, traffic rule awareness, digital payment, and empowerment of girls and women; and help acid-attack survivors, Welfare of elderly, Protection of rights of persons with disability are organized.

Continuous voluntary activities by students to maintain cleanliness in and around the Community, create awareness about the role of clean environment in human health and contribute to the National Swachh Bharat Abhiyan

**Organized Blood Donation camps****Awareness of Legal Rights**

**Awariness of Oral Health (Aim to Terminate Tobacco and Cancer).**

**Health Checkup Camp****Training of Rural Women****Impact & Sensitization:**

Exposure to extension and outreach activities sensitize the students towards social issues and also to legal and social remedies for matters like domestic violence, dowry, child abuse, beggars, female child, victims of violence, old and infirm, refugees and displaced persons etc. The activities conducted lead imbibing the values of social responsibility such as:

- To help people in need and distress
- To understand and share the need of under privileged children
- To promote cleanliness in all span of life and common places,
- To acquire social values and a deep interest in environmental related issues.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**3.6.2 - Number of awards received by the Institution, its teachers and students from Government /Government recognised bodies in recognition of the extension activities carried out during the year**

**3.6.2.1 - Total number of awards and recognition received for extension activities from Government / Government recognised bodies during the year**

26

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.6.3 - Number of extension and outreach programs conducted by the institution including those through NSS/NCC/Red cross/YRC during the year(including Government initiated programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. and those organised in collaboration with industry, community and NGOs)**

32

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.6.4 - Total number of students participating in extension activities listed at 3.6.3 above during the year**

462

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.7 - Collaboration**

**3.7.1 - Number of collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students during the year**

**3.7.1.1 - Total number of Collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students during the year**

71

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.7.2 - Number of functional MoUs with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the year

30

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 - Physical Facilities

4.1.1 - The institution has adequate facilities for teaching - learning. viz., classrooms, laboratories, computing equipment, etc.

The Institution has excellent teaching-learning facilities that provide the most satisfying learning experience to students. Our campus has an admirable academic ambience with adequate classrooms, laboratories, centres of excellence, library, seminar halls, mega classrooms; ICT enabled smart class rooms, auditoriums.

Program specific infrastructure like Aero Hanger, industry Robot, Windmill generation unit and MOOT court are available for students pursuing Aeronautical Engineering, Mechanical Engineering, Electricals and Electronics Engineering and Law respectively. Centres of Excellence are established in association with leading Industries like CISCO, RIA, HCL Technologies, Siemens, Capgemini, Virtusa, GE, Infosys, QMax, NI Labview Academy and Vectorworks. In addition to the above-mentioned laboratory facilities, infrastructure facilities available at research centers housed in Col. Dr.Jeppiaar Research Park and International Research Centre.

Sathyabama Institute of Science and Technology has a massive computing infrastructure with latest software used in academia and industries. The Institution has well equipped computer laboratories with more than 3800 terminals with LAN networking. The entire campus is ICT enabled, with wi-fi connectivity and intranet facility. A 'NextGen Lab' has been established to explore cutting-edge computing technologies like Augmented Reality (AR), Virtual Reality (VR), Artificial Intelligence (AI), Internet of Things (IOT), block chain and Data science.

Virtual Computing Lab, Data science lab and Cloud Computing labs are available for the students of Computer Science Engineering.

We have dedicated Internet Leased line of 500 Mbps (Service Provider: Reliance JIO) and a redundancy link of 100 Mbps (Service Provider: BSNL), connected to all the terminals throughout the Campus.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

4.1.2 - The institution has adequate facilities for cultural activities, yoga, games (indoor, outdoor) and sports. (gymnasium, yoga centre, auditorium, etc.)

Sathyabama gives equal importance to sports and curriculum for all round development of students and greatly supports in shaping the career of students who are interested in sports. Sports facilities available in the campus include play courts, playgrounds for Volleyball, Basketball, Kabadi, Ball badminton, Tennis, Hand ball, Foot ball, Hockey, Kho-kho, Cricket and other outdoor games. Facilities for indoor games like chess, carom and table tennis are also available.

Sports infrastructure in the campus serves as the vital supporting system that motivates students inclined towards sports. We encourage students' participation in the National and International tournaments and students have won laurels to the institution by winning several trophies. In association with AIU (Association of Indian Universities), we host tournaments related to Chess, Taekwondo, Cricket, Squash and Basketball. Our sports grounds, courts and other facilities are used by corporate to conduct sports competitions.

We organize mega sports events and competitions to Corporates and School Students, in which our students play a vital role. We have organized UBA Season-4 Pro Basketball League and 25th Dr.MGR Trophy-Inter Institutional T20 Cricket Tournament. All India FIDE rating Chess tournament, South Zone Inter University Women Cricket Tournament, Wheel Chair Basket ball U-23 team training camp, All India Inter Squash Rackets Men & Women tournament are some of the major events hosted in the recent past. We have well equipped Gymnasiums separately for Boys and Girls.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 4.1.3 - Availability of general campus facilities and overall ambience

Sathyabama Institute of Science and Technology provides high class facilities to cater to the educational, physiological and psychological needs of the students and faculty. Though located in the city limits, the campus has a fresh and green landscape throughout its area, with wide concrete internal roads connecting various departments and amenities.

- Battery vehicles plying between departments, research centres and hostels.
- The entire campus is equipped with wi-fi facility
- Ramps, lifts and toilets for differently abled students and faculty
- 13 research centres funded by various International and National Agencies.
- 3 conference hall each equipped with good sound system, air conditioning and seating facilities cater to the needs of occasions like conferences, seminars, symposiums, training and student performance events.
- 5 Boys Hostels and 5 Girls Hostels
- ATMs
- Stores
- Fitness studio
- Canteens
- Beauty spa,
- Laundry,
- Courier service
- Photo copying section.
- Sathyabama General Hospital
- Medical room
- Emergency Vehicles operating 24\*7

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 4.1.4 - Total expenditure excluding salary for infrastructure augmentation during the year (INR in Lakhs)

7870.2 LAKHS

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS) and has digitisation facility

### DIGITAL LIBRARY

Digital Library comprises of 120 systems with Internet and Multimedia facility to access e-Resources for the benefit of the users. Also, it is stocked with 3500 CD/DVDs with e-content.

### REMOTE ACCESS & MOBILE APPLICATION

Central Library provides 24x7 services through Knimbus Remote Access and Mobile App.

### KNIMBUS E-LIBRARY PLATFORM:

It is a customized e-Library portal which provides the users all the information available through the library on any device from anywhere.

### M-LIBRARY APP:

Mobile e-Library App offers a multi-format content delivery app for our users to consume eBook collections, e-Course material, latest journal issues and multimedia learning content. Patrons can access the entire library on their smart phone irrespective of place and time.

### MEMBERSHIP:

- DELNET - Developing Library Network
- MALIBNET - Madras Library Network
- Anna University Library Membership
- British Council Library Membership



- NDLI - National Digital Library of India
- Shodhganga
- E-ShodhSindhu

#### ICT BASED SERVICES IN LIBRARY:

1. E-Gate entry system is available with automatic scanner
2. Previous year E-Question papers are available for reference (past 10 years)
3. Usage of RFID Technology in all our library operations
4. RFID Antenna to avoid book theft
5. Library is under CCTV surveillance cameras
6. Web OPAC facility provides information of library holdings
7. Reservation facility for users
8. NPTEL video lectures - Hard disc connected with Institutional Repository
9. User feedback system is encouraged to get their valuable suggestions
10. Student Orientation programmes are conducted on a regular basis to create awareness among the students on the library facilities
11. E-resoures access

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**4.2.2 - Institution has subscription for e-Library resources Library has regular subscription for the following: e – journals e-books e-ShodhSindhu Shodhganga Databases**

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

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**4.2.3 - Annual expenditure for purchase of books/ e-books and subscription to journals/e-journals during the year (INR in Lakhs)**

**1072.5 LAKHS**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 4.2.4 - Number of usage of library by teachers and students per day (foot falls and login data for online access)

499

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 4.3 - IT Infrastructure

#### 4.3.1 - Number of classrooms and seminar halls with ICT - enabled facilities such as LCD, smart board, Wi-Fi/LAN, audio video recording facilities during the year

262

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 4.3.2 - Institution has an IT policy, makes appropriate budgetary provision and updates its IT facilities including Wi-Fi facility

In order to procure, maintain and service the IT infrastructure, Sathyabama Institute of Science and Technology has a strong IT Policy in place. This policy provides the procedure and guidelines that govern the responsible usage information technology resources of the Institution. Every member/user of the Institution's IT resource is expected to be familiar with and adhere to this policy, and ensure that it is used for promoting the mission of the Institution towards teaching, learning, research, and administration. The policy intends to maintain, secure, and ensure legal and appropriate use of IT infrastructure established by the Institution on the campus. It provides guidelines for protecting the confidentiality, integrity, and availability of the information assets that are accessed, created, managed, and/or controlled by the Institution. Detailed policy can be found in [www.sathyabama.ac.in](http://www.sathyabama.ac.in).

Sathyabama makes appropriate provision for IT facilities in the budget. 5-10% of the revenue is spent on strengthening the IT infrastructure. Catering to the teaching-learning needs of students, faculty and research scholars, 600 Mbps of internet bandwidth is provided through Reliance JIO and BSNL, connected to all the terminals throughout the Campus.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 4.3.3 - Student - Computer ratio during the year

Number of students	Number of Computers available to students for academic purposes
12480	3800

#### 4.3.4 - Available bandwidth of internet connection in the Institution (Leased line)

- ?1 GBPS

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 4.3.5 - Institution has the following Facilities for e-content development Media centre Audio visual centre Lecture Capturing System(LCS) Mixing equipment's and softwares for editing

A. All of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Upload the data template	<a href="#">View File</a>

#### 4.4 - Maintenance of Campus Infrastructure

##### 4.4.1 - Total expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the year

5304.97 LAKHS

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</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.

Sathyabama offers opportunity of quality education and research to all its faculty and students by rendering top notch infrastructure facilities. The Institution has well equipped computer laboratories with more than 3800 terminals with LAN networking. The entire campus is ICT enabled, with wi-fi connectivity and intranet facility.

The institution has well equipped laboratories and equipment in all departments. There are well laid policies and procedures for the purchase, maintenance, utilization and disposal of all software, hardware, mechanical equipment and chemicals. Planning and Monitoring Committee, Purchase Committee, Finance Committee are involved in the process of procurement and maintenance of all facilities.

The University has a Central Library spreading across an area of approximately 1, 50,000 sq. ft., and is well furnished with all resources including e-library resources.

- Continuous monitoring of the library's stack room and maintaining cleanliness and order in the shelves and stack rooms.
- Displaying of new books on the display rack and arrangement of the books on the shelves after use.
- Dusting and cleaning of library resources and the reading materials at periodic intervals
- Conservation and preservation of materials including repairs and binding.
- Stock taking and weeding-removing the old and obsolete documents from the stacks
- Sports facilities available in the campus include play courts, playgrounds for Volleyball, Basketball, Kabadi, Ball badminton, Tennis, Hand ball, Foot ball, Hockey, Kho-kho, Cricket and other indoor and outdoor games

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

## STUDENT SUPPORT AND PROGRESSION

### 5.1 - Student Support

**5.1.1 - Total number of students benefited by scholarships and free ships provided by the institution, Government and non-government agencies (NGOs) during the year (other than the students receiving scholarships under the government schemes for reserved categories)**

1174

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**5.1.2 - Total number of students benefited by career counselling and guidance for competitive examinations offered by the Institution during the year**

3290

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**5.1.3 - Following Capacity development and skills enhancement initiatives are taken by the institution Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) Awareness of trends in technology**

A. All of the above

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**5.1.4 - The Institution adopts the following for redressal of student grievances**

• All of the above

including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organisation wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

## 5.2 - Student Progression

**5.2.1 - Number of students qualifying in state/ national/ international level examinations during the year (eg:NET/SLET/GATE/GMAT/CAT/ GRE/TOEFL/Civil Services/State government examinations)**

**5.2.1.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year**

407

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**5.2.2 - Total number of placement of outgoing students during the year**

2162

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**5.2.3 - Number of recently graduated students who have progressed to higher education (previous graduating batch) during the year**

452

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 5.3 - Student Participation and Activities

#### 5.3.1 - Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter -university/state/national/international events (award for a team event should be counted as one) during the year

2

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 5.3.2 - Presence of Student Council and its activities for institutional development and student welfare

##### Student Council:

Student Council of Sathyabama facilitate sharing of information between administrative officials and the students. Student Council serves as Communication Bridge between students and administrative officials and acts as a body facilitating primary level of communication . Student Council works with the following objectives:

- To promote an environment conducive to educational and personal development
- To support the management, administrative officials and faculty in the development of the institution by means of sharing the opinion/suggestion/feedback of the council
- To represent the views of the students on matters of general concern

Student council encourages student participation in various self-development, inter and intra institution competitions. Student Council is involved in planning, organizing and conducting of various cultural, sports, social, recreational and other educational programmes for the students. Student



council disseminates information about the National level competitions such as HACKATHONS and MARATHONS and motivates students to perform well in these activities. Students' direct involvement in organizing and conducting various events contributes to the development of leadership and other managerial skills.

Any issues pertaining to students are solved by utilizing the ideas and support of the students, which develops a sense of responsibility in students.

<https://www.sathyabama.ac.in/sites/default/files/2021-04/STUDENT%20COUNCIL%20GUIDELINES.pdf>

Student Council | Sathyabama Institute of Science and Technology (Deemed to be University)

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 5.3.3 - Number of sports and cultural events / competitions organised by the institution during the year

28

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 5.4 - Alumni Engagement

5.4.1 - The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and other support services during the year

Sathyabama has a strong Alumni Association which was established by our Founder Chancellor Col. Dr. Jeppiaar in the year of 1993. Since its inception, the Association continues to foster meaningful relationship with the Institution and has been a strong support to the Institution in its journey towards success. One of the main purposes of the alumni association is to support the network of former graduates who in turn help to enhance the profile of the university. Alumni working with Industries and Leading Multinational companies significantly

contribute in the curriculum development process as their inputs are considered while designing or revising the curriculum of our institution. They support us in designing our curriculum on par with international standards.

Our placement Cell takes the support of our alumni in creating awareness among students about career prospects through interactions with alumni. Alumni are frequently invited to the Institution to meet and discuss with students and mentor them. They provide career guidance to students and help them to prepare for a successful career.

Our alumni, working across the globe are our ambassadors. They are occupying good positions and give all possible support to our institution. Whenever there is a need for human resources in their organisation, they give preference to our institution and select our students who meet their requirements.

We are following Outcome Based Education, Feedback from alumni is sought to evaluate the attainment of Programme Outcomes (PO), which carries 30% weightage in the process of evaluation.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**5.4.2 - Alumni contribution during the year (INR in Lakhs)**      A. ? 5Lakhs

File Description	Documents
Upload relevant supporting document	No File Uploaded

## GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 - Institutional Vision and Leadership

6.1.1 - The institution has a clearly stated vision and mission which are reflected in its academic and administrative governance

Sathyabama Institute of Science and technology has well defined vision and mission statements reflecting its commitment towards producing world class talents , achieving excellence in education and research. Inorder to achieve the mission, strategic committees are in place to forecast, plan, implement and control the academic and administrative activities. The

committees which guide and monitor the growth engine of the institution are Board of Management, Finance Committee, Academic Council, Board of Studies, Department Advisory Committee and Program Assessment Committee.

The responsibilities of administrative and academic bodies are clearly defined and the work culture prevailed in the institution is completely transparent. The Board of Management is the principal organization of Management and principal executive body of Sathyabama Institute of Science and Technology. Composition of the Board of Management and Finance Committee is as under Section 10.05 of the Memorandum of Association (MoA) as per the UGC regulation for Deemed to be University as on 19th July 2019. The Academic Council is the principal academic body which is responsible for the maintenance of standards of teaching and research exercising such powers and perform other duties and functions as may be prescribed or conferred upon it by the Rules of the institution.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

6.1.2 - The effective leadership is reflected in various institutional practices such as decentralization and participative management

The Vice-Chancellor (VC) is the Principal Executive Officer of the institution and exercises general supervision and control over the affairs of the institution and is mainly responsible for implementation of the decisions with respect to functioning of the institution. The VC exercises all other powers as delegated by the Board of Management and has power to re-delegate some of the powers to any of his/her subordinate officers with the concurrence and approval of the Board of Management.

There is a Core Team, which functions under the guidance of Vice Chancellor and Pro Vice Chancellors. Members of the Core Team are drawn across the departments, from different levels including Assistant Professors, Associate Professors, Professors, and Heads of the Departments and Deans of the Schools. The Core Team is involved in all the major activities of the Institution that directs the institution towards the

achievement of strategic goals. The main objective of the team is to support the stakeholders of the Institution in all the initiatives taken for the growth and development of the Institution. This Team is primarily responsible for leading everyone towards the achievement of the strategic goals and mission of the Institution. The Core Team members display leadership qualities when they lead and guide their respective extended team members, which is the most important reason for the successful functioning of the Team in the institution.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

## 6.2 - Strategy Development and Deployment

### 6.2.1 - The institutional Strategic plan is effectively deployed

The 2016-2020 Strategic Plan was successfully translated into action and the Institution has excelled in many areas and grown as a Premier Institution.

- NAAC 'A' Grade in 2017.
- Conferred with 12B status by the University Grants Commission.
- Secured various Awards, Ratings and Rankings by NIRF, QS and Diamond Ratings by QS I-Gauge Sathyabama was awarded with four star ratings by QS, ARIIA, Times Higher Education, and Times Higher Education Impact Rankings, E-Lead Certification.
- Sathyabama has successfully launched SATHYABAMASAT, a Nano satellite developed by the faculty and students collaborating with ISRO, in 2016.
- The Institution has established Centres of Excellence in Animal Research, MHRD sponsored Centre of excellence for Energy Research under the FAST Scheme. The Institution has established Earth Science Technology Cell sponsored by MoES in association with NIOT and CMLRE for Marine Biotechnological Studies.
- Intellectual Property Cell has been established to support the innovators in patenting process. 168 patents were filed and 44 patents were granted during the period 2016-2020.

- Bio Safety Labs with Clean Room ISO 7 Specifications was established to promote high end research on herbal based drug for Tuberculosis, HIV and Dengue.
- New Programmes were introduced.
- More than 6000 Publications were made by the faculty members and research scientists and the H Index of the Institution rose to 62.
- 45 Crores worth fund generated through Research and Development projects.
- 120 MoUs were signed with companies and Universities at national and international level in order to facilitate.
- The Institution has established a NEXTGEN Lab with advanced technologies

File Description	Documents
Upload relevant supporting document	<a href="#">View File</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.

The Board of Management, Finance Committee, Planning and Monitoring Board and the Academic Council are the committees established to monitor the growth of the institution. The responsibilities of the administrative and academic bodies are clearly defined. The committees which facilitate the effective functioning of the Institution are Board of Management, Finance Committee, Planning and Monitoring Committee, Academic Council, and Internal Quality Assurance Cell (IQAC). The responsibilities of administrative and academic bodies are clearly defined and well laid policies are in place, which facilitate efficient and effective functioning of the organization.

The Vice Chancellor (VC) is the Principal Executive Officer of the institution and exercises general supervision and control over the affairs of the institution and is mainly responsible for implementation of the decisions of all the authorities of the institution. VC exercises all other powers as delegated by the Board of Management and has power to re-delegate some of the powers to any of his/her subordinate officers with the concurrence and approval of the Board of Management.

The Internal Quality Assurance Cell (IQAC) is responsible for the adherence of quality assurance processes, preparation of policies, and implementation of tools, and techniques for quality improvement. IQAC is in charge of co-ordinating and

monitoring the overall quality of the institution.

The employment policies are well defined in the service rules of the university and it is available in the university website. Service rules of the Institution are in line with the procedure and guidelines prescribed by the UGC Regulations.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 6.2.3 - Institution Implements e-governance in its areas of operations

**6.2.3.1 - e-governance is implemented covering following areas of operation**

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

A. All of the above

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has a performance appraisal system, promotional avenues and effective welfare measures for teaching and non-teaching staff

Sathyabama has a standard performance appraisal system which evaluates the performance of the teaching and research faculty. The Institution uses a tool known as Sathyabama Score SScore to evaluate the performance of the Academic and Research Faculty. Performance of the staff is objectively evaluated at the end of each academic year using SScore, assessed based on their contribution to academics, research and social outreach. The most important quantitative indicators like innovative teaching pedagogy adopted, teaching materials prepared, student feedback, publications in high impact factor journal, research grants received, patents, books authored, consultancy provided, participation in workshops and faculty development programmes and fellowships received. The scores are used to evaluate the faculty's performance in various key result areas like research, publication, consultancy etc. The score secured by



each faculty member is then converted into monetary value by multiplying the score with the value assigned for each score. A review committee constituted by Vice-Chancellor shall review the performance of every faculty member and recommend annual increment/Promotion/ Career Advancement (as per UGC norms) if it is due to him/her and his/her performance is good.

#### Welfare Measures

Happy and motivated employees achieve great heights and take the institution to the next level. Staff members of are grouped into three categories viz. Teaching/Research and Teaching/Other, Administrative Staff and Technical Staff. Various welfare measures are detailed in the service policy of the university ([https://www.sathyabama.ac.in/service\\_policy](https://www.sathyabama.ac.in/service_policy))

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 6.3.2 - Total number of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

117

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 6.3.3 - Number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the year

65

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 6.3.4 - Total number of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the year(Professional Development Programmes, Orientation / Induction Programmes Refresher Course, Short Term Course)

711



File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 6.4 - Financial Management and Resource Mobilization

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

The funds required for the Institution is mobilized primarily from three sources, namely, Tuition Fee from the students, Consultancy work and the resources from the Sponsoring Trust, Sathyabama Institute of Science and Technology Trust. Tuition Fee accounts for 98% to 99% of the total funds, which will be approximately 250 crores every year.

The VC along with the purchase committee and Finance Committee monitors the utilization of the funds.

For effective monitoring, comparative statements are being prepared every year and they are analyzed. Periodical audits are conducted for proper accounting of fund utilization.

Funds generated through consultancy offered: The University is actively involved in multidisciplinary areas of research and promotes engagement with industries through consultancy services. The research and consultancy activities are taken up by the dynamic faculty members of the University.

Funds are allocated for effective teaching learning process, infrastructure, inter-disciplinary activities, training on co-curricular and extracurricular activities, industry academia interactions, procurement of enterprise software, ERPs, improvement of library facilities, and technology up gradation, based on the requirements projected by the departments. Staff rooms, classrooms, and smart classrooms are constructed or renovated annually.

Funds are allocated for setting up Centre of Excellence and laboratories for faculty and students to apply and practice technology principles and standards. Sathyabama promotes innovation eco system by supporting incubatees and their transformation into successful entrepreneurs by funding innovative ideas of students.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 6.4.2 - Funds / Grants received from government bodies during the year for development and maintenance of infrastructure (not covered under Criteria III and V) (INR in Lakhs)

340.02

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 6.4.3 - Funds / Grants received from non-government bodies, individuals, philanthropists during the year for development and maintenance of infrastructure (not covered under Criteria III and V)(INR in Lakhs)

0

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

#### 6.4.4 - Institution conducts internal and external financial audits regularly

Sathyabama follows best financial management practices and has an established mechanism to conduct periodical internal and external financial audits. Accounts department ensures the proper maintenance of accounts and audits. The finance committee is headed by the Vice Chancellor of the University and meets twice a year to deliberate the financial planning of the Institution. Institution's strategic plan serves as a base to predict the expenses under major heads like infrastructure development, research facilities etc.

The Institution conducts Internal audit once in three months in order to verify the credentials recorded in the Tally software and the actual expenditure. Further, two internal audit reports are being placed before the Finance Committee for the purpose of periodical evaluation. The internal audits are done by the internal auditor annually. The observations, objections, suggestions are communicated to the department heads, IQAC and

administrative head of the Institution. The finance committee headed by the Vice Chancellor examines these observations and suggest remedial measures. The compliance report and the accounts are then validated by the external auditor. External audit is being carried by Ms. Ramakrishnan and Company, Chartered Accountant for the purpose of consolidation and to file the Income Tax Returns. Copies of the Audited Statements are attached with this content. The annual report is discussed in the board of management meeting every year.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</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 by constantly reviewing the teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals

The Internal Quality Assurance Cell (IQAC) plays a vital role in maintaining and enhancing the quality of the institution and suggests quality enhancement measures to be adopted. The IQAC works towards maintaining the quality of education, identifying and suggesting new ways of using teaching aids, developing appropriate infrastructure and offering suggestions for the new courses demand by the industries. The IQAC meets every quarterly to plan, direct, implement and evaluate the teaching, research and publication activities in the Institution. The initiatives taken by the IQAC was followed and implemented by the departments. The IQAC strives to spread quality culture through quality enhancement initiatives and best practices. Significant improvements in quality have been made by institutionalizing the following IQAC initiatives:

The Key areas are,

1. Academic results
2. Student Skilling / internship/ Project etc.
3. Student soft skills development
4. Placement Training

5. Faculty development programs

6. Research and development

7. Interaction with industry and MoUs

8. Preparation towards Rankings and Accreditation both national and International

IQAC reviews the teaching learning processes and take initiative for improving the curriculum and practicing new pedagogies . Feedback from different stakeholders are taken , analysed and the appropriate measures were taken to do the teaching learning process more effectively

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**6.5.2 - Institution has adopted the following for Quality assurance Academic Administrative Audit (AAA) and follow up action taken Confernces, Seminars, Workshops on quality conducted Collaborative quality initiatives with other institution(s) Orientation programme on quality issues for teachers and studens Participation in NIRF Any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)**

**A. Any 5 or all of the above**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

6.5.3 - Incremental improvements made for the preceding during the year with regard to quality (in case of first cycle) Post accreditation quality initiatives(second and subsequent cycles)

A number of post accreditation quality improvement initiatives

have been taken in the following areas during the last five years:

#### Governance

- Creation of Post and appointment of Pro Vice Chancellor
- Project Management System (PMS)
- ISO

#### Participation in National Missions

- Swachh Bharat Mission
- Skill India Mission
- Renewable Energy
- Make in India
- Digital India
- BetiBachaoBetiPadhao Abhiyan
- Unnat Bharat Abhiyan

#### Curriculum

- Introduction of new Programmes - Nursing, Pharmacy, Law
- Curriculum focussing on skill development
- Curriculum focussing on values based education
- Outcome Based Education
- Multidisciplinary curriculum
- Complete Adoption of Choice Based Credit System

#### Partnerships

- MoUs with Universities across the world for collaborative activities like student exchange, faculty exchange, joint research etc.
- MoUs with Industries to initiate joint academic programmes and training programmes.

#### Extension Activities

- Tree Plantation
- School Adoption
- Village adoption

#### Green Initiatives

- Use of Battery operated Vehicles to commute within the campus

- Use of solar energy
- Green Audit
- Preparation of Sustainability Report
- Policies on SDGs
- Participation in Rankings relating to sustainable development

#### Infrastructure Development

- Open Air Auditorium
- Indoor Gymnasium
- Wifi Connectivity
- Research Centres/Laboratories
- Information Communication Technologies Assisted Language Lab.
- Biomedical Laboratory
- Digital Infrastructure - Learning management system, Remote access to library, Remote laboratory

Actions were taken by IQAC during the post accreditation period, on the observations of NAAC during the Assessment.

As a quality measure and in line with the direction of University Grants Commission (UGC), Sathyabama has adopted Choice Based Credit System (CBCS).

#### Initiated:

- International Collaborations
- ICT Initiatives
- Digital Initiatives
- Biometric Attendance

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 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 year

Sathyabama takes consistent efforts to promote gender equity. It provides an enabling environment for female students and employees.

The Institution has a Gender Equity policy in place and is founded on the basic principles of respect and tolerance for everyone that facilitates gender equality and diversity. All Employees and students are treated equally.

Following are some of the measures taken to promote gender equity:

- Sensitization programmes were conducted on issues related to gender equity, women empowerment etc.
- Women Empowerment Bureau has organised training programmes, seminars and workshops to students on gender equity
- Awareness programs were organized to the students on legal protections available to girls.
- Female employees are provided maternity leave, child care leave and are also entitled to avail leave on adoption of child.
- There are a significant number of women cadets in the NCC unit. Indoor & outdoor games for Men & Women students and staff were held on various occasions.
- Internal Complaints Committee (ICC) is constituted in the Institution to deal with the complaints of sexual harassment of women staff and students. ICC works for the prevention of discrimination and sexual harassment against girls by promoting gender equity among students and employees.
- The Day Care Centre was established to support women employees.
- Committees such as Anti - Ragging Committee, Students Grievance Committee and Discipline Committee provide quick relief to the grievances of girl students and ensure the maintenance of decent and safe environment within the campus



File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Annual gender sensitization action plan(s)	<a href="https://www.sathyabama.ac.in/academics/igac">https://www.sathyabama.ac.in/academics/igac</a>
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common rooms d. Daycare Centre e. Any other relevant information	<a href="https://sist.sathyabama.ac.in/sist_naac/facilities/SIST_Facilities.pdf">https://sist.sathyabama.ac.in/sist_naac/facilities/SIST_Facilities.pdf</a>

**7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment**

**A. Any 4 or All of the above**

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management**

Being an environmentally conscious Institution, Sathyabama follows the best waste management practices and the solid waste, liquid waste, e-waste and other wastes are properly managed and disposed in an eco-friendly manner. The Institution has constituted Internal and External Waste Audit Committees which conducts waste audit.

**Solid waste management**

Bio degradable and non-bio degradable wastes are segregated separately in the campus and bio degradable wastes are used as food for cattle and used as manure for the plants and trees. Non bio degradable wastes are disposed through the Chennai Metropolitan waste disposal methods.

## Liquid waste management and Waste Water Recycling

A Sewage Treatment Plant of 1.5 MLD capacity is constructed in the campus for proper treatment, disposal and reuse of waste water. The treated water is reused for gardening purpose and in toilets for flushing.

The Centre for Waste Management is involved in research relating to effective management of waste, waste reduction and conversion of waste into energy.

### Biomedical waste management

The biomedical waste generated are properly segregated and disposed. A register is maintained for recording biomedical wastes. Cytotoxic drugs were segregated according to BMW rule 2016 and the biomedical waste is segregated into colour coded bags and sealed before handing over to the authorized handler.

### E-waste management

E- Waste is managed in compliance with the E-Waste Management Rules 2016. E-Waste generated is channelized through authorized recycler for treatment, dismantling and disposal. M/S Earth Sense Recycle Pvt Limited, Chennai is the authorized recycler who collects the E-waste

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus**

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

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**7.1.5 - Green campus initiatives include**

<p><b>7.1.5.1 - The institutional initiatives for greening the campus are as follows:</b></p> <ol style="list-style-type: none"> <li><b>1. Restricted entry of automobiles</b></li> <li><b>2. Use of bicycles/ Battery-powered vehicles</b></li> <li><b>3. Pedestrian-friendly pathways</b></li> <li><b>4. Ban on use of plastic</b></li> <li><b>5. Landscaping</b></li> </ol>	<p><b>A. Any 4 or All of the above</b></p>				
<table border="1"> <thead> <tr> <th data-bbox="89 555 531 629">File Description</th> <th data-bbox="531 555 1394 629">Documents</th> </tr> </thead> <tbody> <tr> <td data-bbox="89 629 531 741">Upload relevant supporting document</td> <td data-bbox="531 629 1394 741" style="text-align: center;"><a href="#">View File</a></td> </tr> </tbody> </table>	File Description	Documents	Upload relevant supporting document	<a href="#">View File</a>	
File Description	Documents				
Upload relevant supporting document	<a href="#">View File</a>				
<p><b>7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution</b></p>					
<p><b>7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:</b></p> <ol style="list-style-type: none"> <li><b>1. Green audit</b></li> <li><b>2. Energy audit</b></li> <li><b>3. Environment audit</b></li> <li><b>4. Clean and green campus recognitions/awards</b></li> <li><b>5. Beyond the campus environmental promotional activities</b></li> </ol>	<p><b>A. Any 4 or all of the above</b></p>				
<table border="1"> <thead> <tr> <th data-bbox="89 1391 531 1464">File Description</th> <th data-bbox="531 1391 1394 1464">Documents</th> </tr> </thead> <tbody> <tr> <td data-bbox="89 1464 531 1576">Upload relevant supporting document</td> <td data-bbox="531 1464 1394 1576" style="text-align: center;"><a href="#">View File</a></td> </tr> </tbody> </table>	File Description	Documents	Upload relevant supporting document	<a href="#">View File</a>	
File Description	Documents				
Upload relevant supporting document	<a href="#">View File</a>				
<p><b>7.1.7 - The Institution has a disabled-friendly and barrier-free environment Ramps/lifts for easy access to classrooms and centres. Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft</b></p>	<p><b>A. Any 4 or all of the above</b></p>				

**copies of reading materials, screen reading, etc.**

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words)

Sathyabama is an inclusive Institution, committed to provide quality education to everyone that include diverse ethnic, religious, socio-economic, cultural group without discrimination. The institution promotes the principle of unity in diversity, and policies like Anti-discrimination policy and Minority protection policy are in place which aims at protecting minority interests and promoting diversity and inclusiveness of the Institution

On Fridays' Muslim students are allowed to worship in Mosque outside the campus. Sunday worship service is conducted in the Chapel situated within the campus. Students from various religions have separate prayer halls and all religious festivals are celebrated by the Institution.

Festivals like Ayudha Pooja, Diwali, Christmas, Ramzan, Bakrid, Pongal, and other festivals are celebrated in the Institution with zeal and energy, instilling a sense of unity among students and faculty. All the students are encouraged to come with traditional dresses representing their ethnicity and culture during the festivals and celebrate together appreciating the diversity. Cultural festivals are regularly organised, to showcase the culture of from different regions and communities.

Socially and economically backward students are provided opportunity to study in the Institution with full scholarship. Students and teachers are motivated to come up with innovative projects and solutions to societal challenges, which are funded by the Institution.

The Institution is inclusive for students with special needs too. Physically challenged, hearing impaired, visually impaired and students with learning disabilities are provided opportunity to study along with other students.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

Sathyabama has always been an Institution that respects the constitutional rights and obligations and provides promotes an environment where the students and employees understand their role in safeguarding the constitutional obligations.

The Institution conducts awareness campaigns, orientation programmes, training programmes, seminars and workshops to sensitize the students and employees to understand the constitutional obligations. Seminars, workshops, debates, essay competitions and elocution competitions are organised on topics like Ethical Values, Fundamental Duties and Rights and obligations of Indian Citizens. The students are encouraged to participate in conferences, expert talks, poster making competition and other competitions on various contemporary legal issues.

Institution celebrates the Constitution Day on 26th November to commemorate the adaptation of the Constitution of India and to spread the Constitutional values and ideals amongst students.

Republic Day is celebrated on 26th January in a grand manner. Parades and other competitions on patriotic themes are organized to develop patriotism and love for the motherland.

The Institution designs various activities to create awareness about the national identity and symbols. Cultural programs and events are organized which aims at highlighting the constitutional spirit of liberty, equality, justice and fraternity.

The curriculum of some of the programmes are designed with courses like introduction to Constitution of India, Gandhian Economic Thought, Moral Philosophy, Practical Ethics, Value Education, Philosophy of Human Rights and Applied Philosophy as a small step to inculcate constitutional obligations and values, rights, duties and responsibilities of citizens among the students.

<p><b>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. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on Code of Conduct are organized</b></p>	<p>All of the above</p>
<p>File Description</p>	<p>Documents</p>
<p>Upload relevant supporting document</p>	<p><a href="#">View File</a></p>
<p>7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals</p>	
<p>Sathyabama Institute of Science and Technology celebrates commemorative national and international days, festivals and events. The Institution has a list of faculty members who are assigned the task of organizing commemorative national and international days, festivals, and events within the campus. The following events were organised during the academic year June 2020-May 2021.</p> <p><b>Festivals</b></p> <p>Pongal, Ayudha Puja, Onam and Christmas celebrations were organized following the COVID prevention protocols.</p> <p><b>National Days of Importance</b></p> <p>Independence Day, Madras Day, Republic Day, National Safety Week, National Science Day, Teachers Day.</p> <p><b>International Days of Importance</b></p> <p>International Nurses Day, Sea Grass Awareness Week, International Women's Day, World Tuberculosis Day.</p>	



File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

## 7.2 - Best Practices

7.2.1 - Describe one best practice successfully implemented by the Institution as per NAAC format provided in the Manual

**Sathyabama Score - SScore.**

### 1. Objectives:

- To establish a procedure for evaluating the performance of the staff working in Academic Departments and Research Centres.
- To understand the skills, knowledge and abilities of the staff and devise appropriate development strategies.
- To provide feedback to the staff for improved performance.
- To recognize the contribution of the Academic and Research Staff and motivate them with monetary and non-monetary rewards.

2. The Context: Sathyabama Score known as SScore is a tool to evaluate the performance of the Academic and Research Faculty.

### 3. The Practice:

The most important quantitative indicators like teaching pedagogy adopted, teaching materials prepared, student feedback, publications, research grants, patents, books authored, consultancy provided, participation in workshops and faculty development programmes are used to evaluate. The score secured by each faculty member is then converted into monetary value.

### 4. Evidence of success:

The score received under every dimension assessed in SScore highlights the level of performance and the area that needs improvement. The scores are used to take decisions regarding increment in salary and promotions.

### 5. Problems encountered and resources required:



It was really a challenging task to prepare an exhaustive list of activities that are to be assessed under each dimension of performance. It took lot of time to design the SScore as it was developed through several stages of brainstorming with a team of experts.

### 7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

Research at Sathyabama addresses the Sustainable Development Goals(SDG)of Agenda 2030, which requires the participation of individuals, institutions, countries and Governments in creating a better world free from poverty, hunger, health issues, inequalities, and providing access to quality education, access to clean water and sanitation, access to affordable and clean energy.

- Research relating to the SDG 7, is undertaken by the Centre of Excellence in Energy Research funded by MHRD, working towards finding sustainable solutions to the need for energy.
- Centre for Climate Change Studies is involved in the research addressing the most important Sustainable Development Goal -SDG-13 on Climate Change along with SDG 14-Life below
- Research in the area of waste management, which works on the 3 R concepts: Reduce, Reuse and Recycle is undertaken.This Centre, which is working towards the achievement of SDG 12-Responsible consumption and production and SDG13, has come out with a biodiesel form waste cooking oil and bio fertilizers from food waste.
- Research to discover novel drugs to fight against life threatening infectious diseases including tuberculosis (TB), Acquired Immuno Deficiency syndrome (AIDS), Dengue and non-infectious diseases including cancer, diabetes etc, which is addressing the SDG-3 Good Health and Well-being.
- Centre for Remote Sensing and geoinformatics is involved in research facilitating resilience and adaptive capacity to climate related hazards, disaster preparedness against flood related disasters, addressing SDG 13.
- Increased in number of publications and product patents
- Sponsored and collaborative R&D projects funded by national organizations such as ISRO,DST,DBT,IGCAR,DRDO,DAE,MoEFetc, .

### 7.3.2 - Plan of action for the next academic year

Strategic plan 2021-2025 of Sathyabama Institute of Science and Technology envision being an Academic and Research Institution on par with international Universities. To realize the vision,

the Institution has identified the following areas of focus for the next academic year

- Following the guidelines of NEP, 2020
- Introduction of more Degree programmes in Open and Distance learning mode
- Strengthening the digital infrastructure of the Institution
- Designing flexible curriculum that focuses on skill development
- Establishment of Centres of excellence in various thrust areas of research.
- Internationalization of Education
- Apply for National & International Accreditations for quality improvement.
- Involvement in High Impact and Socially Responsible Research in areas like Nanomaterials Nanocomposite materials, Energy Storage Materials, Renewable Energy, Regenerative Medicine, Robotics & Automation, CyberPhysical System, Bioplastics & E - Waste Management, Marine Biotechnology, Genetic Engineering, Space Technology, Drug Discovery & Delivery, Data Analytics and Artificial Intelligence.
- Strengthening Industry-Institute Collaboration
- Development of the Innovation Eco System of the Institution and facilitate more start ups
- Development of Sustainable Infrastructure such as Sustainable laboratories and classrooms with clean energy