



YEARLY STATUS REPORT - 2022-2023

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	vc@sathyabama.ac.in
• Alternate e-mail address	registrar@sathyabama.ac.in
• City/Town	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	6381879488				
• Mobile	9443786840				
• IQAC e-mail address	iqac@sathyabama.ac.in				
• Alternate Email address	naac@sathyabama.ac.in				
3.Website address (Web link of the AQAR (Previous Academic Year)	https://www.sathyabama.ac.in/sites/default/files/2023-05/AQAR%202021-22.pdf				
4.Whether Academic Calendar prepared during the year?	Yes				
• if yes, whether it is uploaded in the Institutional website Web link:	https://www.sathyabama.ac.in/student/academic-calendar				
5.Accreditation Details					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 3	A++	3.73	2023	19/05/2023	18/05/2028
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
Department of Chemical Engineering/ Electronics and Communication Engineering/Centre for Waste Management	Science and Technology Innovation Hub	DST/SEED/SCS P	2022 1095 days	23605264
Department of Computer Science and Engineering/ Information Technology/B iotechnology /Biomedical Engineering	Agri Innovation Hub	DST/SEED/TSP	2022 1095 days	28341335
Sathyabama TBI	SEED India Startup	DST -DPIIT	2023 1826 days	52500000

8.Whether composition of IQAC as per latest NAAC guidelines	Yes
<ul style="list-style-type: none"> • Upload latest notification of formation of IQAC 	View File
9.No. of IQAC meetings held during the year	3
<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • (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)									
<ul style="list-style-type: none"> • Accredited with A++ Grade by the National Assessment and Accreditation Council (NAAC) • Ranked in 43rd position among the Universities in India by the National Institutional Ranking Framework (NIRF), Government of India, for the year 2022 • Ranked in the band of 1001-1200 in the 2023 QS World University Rankings • Ranked in 301-350 position by QS Asia University Rankings, 2023 • Awarded Five Star ratings by QS Stars • Ranked in the band of 1201-1500 by the Times Higher Education World University Rankings 2023; • Ranked in the 501+ position by the Times Higher Education Asia University Rankings, 2023 • Ranked in the 801-1000 band in the Times Higher Education Subject Rankings, 2023 for Engineering and Technology • Placed in the 401+ rank in the world by the Times Higher Education Young University Rankings, 2022 • Ranked 501+ in the world by the Times Higher Education Emerging Economies University Rankings, 2022 • Sathyabama is ranked in the 601-800 band in the Overall Times Higher Education Impact Rankings, 2022 • Step by step implementation of NEP 2020 									
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									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th data-bbox="86 1308 769 1370">Plan of Action</th> <th data-bbox="786 1308 1469 1370">Achievements/Outcomes</th> </tr> </thead> <tbody> <tr> <td data-bbox="86 1370 769 1688">Major Curriculum revision</td> <td data-bbox="786 1370 1469 1688">? Major Curriculum revision is carried out considering the measures on NEP and SDG with additional inclusion of Minor degrees and Honours ? Faculty induction programme is arranged to get awareness on NEP and SDG</td> </tr> <tr> <td data-bbox="86 1688 769 2007">Introduction of new Programme</td> <td data-bbox="786 1688 1469 2007">? Bachelor of Physiotherapy is introduced as a new UG programme ? Master of Law in IPR, Constitutional Law and Criminal Law are introduced ? Introduction to Integrated M.E. and M.Sc. programmes,</td> </tr> <tr> <td data-bbox="86 2007 769 2072">Initiation towards Dual degree</td> <td data-bbox="786 2007 1469 2072">? Dual degree programmes and</td> </tr> </tbody> </table>	Plan of Action	Achievements/Outcomes	Major Curriculum revision	? Major Curriculum revision is carried out considering the measures on NEP and SDG with additional inclusion of Minor degrees and Honours ? Faculty induction programme is arranged to get awareness on NEP and SDG	Introduction of new Programme	? Bachelor of Physiotherapy is introduced as a new UG programme ? Master of Law in IPR, Constitutional Law and Criminal Law are introduced ? Introduction to Integrated M.E. and M.Sc. programmes,	Initiation towards Dual degree	? Dual degree programmes and	
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Initiation towards Dual degree	? Dual degree programmes and								

programmes and twinning programmes	twinning programmes are initiated
Promoting skill development course, entrepreneurship and employment enhancement program	? 3 credit course is introduced exclusively for skill development in all engineering programmes ? Credit based courses are included under employment enhancement program ? Faculty training for NEN Ignite - a course on entrepreneurship is conducted in order to handle the same course for the students ? Departments are encouraged to organize value added courses to empower the students
Reestablishing advance facility for research	? Sathyabama Centre for Advanced Studies is established with state of art equipment for a quality research in material science and artificial intelligence ? Experiential learning is practised in Metaverse, 3D printing and Drone Experimentarium
Strengthening Research, Collaborative research activities and Revising consultancy policy	? Institutional seed fund is increased to promote the quality developments in research ? Collaborative research activities are strengthened with increased number of MoUs with national/international academia, industries and research organizations ? Number of consultancy services are increased through revised consultancy policy
Promoting Innovations and Start-ups	? Startups are encouraged through Seed India Startup grants ? Economic growth in rural areas are supported through Agri Innovation Hub and Science & Technology Hub ? Staff and students are appreciated

	with excellence awards in different categories as a motivation
strengthening E-governance system	? E-governance system is strengthened and planned for ERP mobile app
Academic & Administrative Audit	? Academic & Administrative Audit, Green, Environment, Energy and Water Audit are conducted
Submission of Self-Study Report for NAAC Accreditation	? Self-Study report is submitted for NAAC Accreditation ? Completed DVV and NAAC peer team Visit ? Accredited with NAAC A++ Grade with 3.73 score
Data submission for various institutional Rankings and Ratings	? The institutional data is submitted for NIRF, Times Impact Rankings and QS Ranking ? Ranked in 51st position among the Universities in India by National Institutional Ranking Framework. ? QS World University Rankings- Sathyabama is ranked in the 1001-1200 Band in the QS World University Rankings 2023 the Institutions from India ranked on 41 position ? QS Asia University Rankings - QS has Ranked Sathyabama in the 301-350 Band in the QS Asia University Rankings 2023 ? Times Higher Education Impact Rankings -Sathyabama is ranked in 601-800 band in 2022. ? Times Higher Education World University Rankings 2023 -The Institution is ranked in 1201-1500 position ? Data submitted for ABET accreditation
13. Whether the AQAR was placed before statutory body?	Yes
<ul style="list-style-type: none"> Name of the statutory body 	

Name	Date of meeting(s)
Board of Management	14/11/2023
14. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to Assess the functioning?	Yes
15. Whether institutional data submitted to AISHE	
Year	Date of Submission
2021 - 2022	15/03/2023
16. Multidisciplinary / interdisciplinary	
<p>The Sathyabama Institute of Science and Technology is a multidisciplinary institution offering programmes in the fields of engineering, science, law, allied health sciences, architecture, management, dentistry, nursing, pharmacy, and the humanities. The vision of the institution is to become a leading multi-disciplinary university producing world-class talents to address global challenges.</p> <p>Sathyabama aims to become a fully multidisciplinary institution by introducing more new programmes in the areas of Agricultural Sciences, Medical Sciences, Traditional Medicine, and Paramedical Sciences. The Institution has a multi-disciplinary and interdisciplinary curriculum with more emphasis on skill-oriented and industry linked courses. Students are offered open electives so that they can choose any course regardless of their specialization. A student studying Biotechnology can choose courses in Management, Artificial Intelligence, Machine learning, Satellite Communication and Satellite Technology, Green Energy Systems, Intellectual Property Law, Forensic Science, entrepreneurship, etc. Some interdisciplinary courses are offered as compulsory courses. The interdisciplinary curriculum facilitates the adoption of a Choice Based Credit System (CBCS). Sathyabama is also involved in multidisciplinary/interdisciplinary research.</p> <p>In line with the National Education Policy 2020, the institution intends to promote complete flexibility eliminating any rigid boundaries between the curricula of the arts, sciences, humanities, languages, mathematics, and engineering. This will allow all subjects to be given equal weight and encourage proficiency in all</p>	

academic fields.

17.Academic bank of credits (ABC):

The Institution has registered in the Academic Bank of Credits (ABC) portal. The Institution has also registered in the National Academic Depository's Digi Locker portal. Students are provided with information regarding the Academic Bank of Credits and its relevance to our curriculum. Students are instructed how to open an account with the Academic Bank of Credit of India and abide by the standard operating procedures.

The Institution has adopted the Choice Based Credit System (CBCS), which allows the easy adoption of Academic Bank of Credits. Sathyabama allows credit transfer through MOOCs courses offered through NPTEL and SWAYAM, Semester Abroad Programme, and Internship Abroad Programme. Students are allowed to study for one or two semesters in foreign universities and the credits are transferred. Credits earned by the students through a vocational education course, skill development course will be considered for credit requirements towards award of a degree.

Credits earned by the students through all the above mentioned ways are recognized, transferred and redeemed. The adoption of an interdisciplinary curriculum, a choice based credit system, multiple entry and exit options for students, and opportunities for students to study courses in foreign universities and earn credits will facilitate the smooth adoption of the Academic Bank of Credits by the Institution.

18.Skill development:

The curriculum is designed based on the expected learning outcomes—the knowledge, skills, and attitudes the students should possess after completing their degree. Sathyabama's curriculum focus on skill development, employability and entrepreneurship and is designed in such a way that approximately 85% of the courses are employment-oriented, entrepreneurship-oriented, and skill-oriented. Several skill development courses workshops and seminars are conducted to enhance the skills of the students.

Sathyabama has established a Centre for Skill Development in collaboration with the National Skill Training Institute (NSTI) and Micro, Small, and Medium Enterprises (MSME). The Centre conducts various skill development programmes for students with the objective of improving their employability skills and promote entrepreneurship. The Centre for Skill Development facilitates

industry institute interactions. In collaboration with the National Skill Training Institute (NSTI), Ministry of Skill Development & Entrepreneurship (MSDE), the centre offers a variety of skill-enrichment courses in AI Programming, Machine Learning, Cyber Security, Internet of Things, Embedded Programming, Data Acquisition, CATIA V5, Robotics, and Printed Circuit Board (PCB) Design courses to help students improve their technical skills.

The Institution offers courses/programmes under UGC NSQF (National Skills Qualifications Framework), for the students, with the aim of enhancing various skill and improve the employability.

19. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

The Indian Knowledge System (IKS) is being integd into curricula, and new initiatives focusing on Indian arts and culture are being introduced. By commemorating national holidays and Indian festivals, the institution fosters cultural integration. Sathyabama offers a range of courses to teach students about the history and culture of the nation. Indian culture, heritage, and traditions are introduced to international students through special events. In the annual cultural events, Indian culture and fine arts are promoted through different programmes. The Institution also encourages seasonal festivals showcasing local and regional cultures.

Students are encouraged to participate on topics related to the culture, art, and literature of the region. This motivates the students to incline themselves toward adopting regional and national cultures.

The institution recognises the outstanding contributions made by famous personalities of Indian cultural background. Courses on Indian culture have been added to the B.Sc. Fashion Design programme. The goal of the B. Arch. (Bachelor of Architecture) programme is to encourage the use of traditional Indian architectural designs in contemporary buildings. It is recommended that students tour architectural landmarks in order to have an understanding of India's architectural traditions and history. Pupils are taught about the historical construction techniques and are urged to apply this knowledge by fusing it with contemporary technologies.

The Government of India's Science and Heritage Research India (SHRI) has awarded the research and development fund to the institution's faculty. With the help of this research, the monuments will be

protected using cutting-edge technology that will be distributed throughout the world. A request has been made to the institution to offer courses on organic farming, traditional medicinal practises, and the digitization of Indian traditional knowledge.

20.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

The Institution adopts Outcome Based Education (OBE). Curriculum is designed based on the expected learning outcomes—the knowledge, skills, and abilities the students are expected to possess after completion of the programme. Recent research, professional practices in the industry, and the feedback of the stakeholders are given due consideration in the process of curriculum designing. Stakeholders' expectations are met at reasonable levels with the institutionalization of OBE principles.

Every program's curriculum is created based on the Programme Outcomes (POs) and the Programme Specific Objectives (PSOs). All teaching and learning activities in the programme are designed to help students achieve these POs and PSOs. The POs and PSOs are displayed in prominent places in the department, which are accessible to students to make them aware of the expected learning outcomes.

Each course is designed with definite course outcomes. These course outcomes are made clear to students prior to the start of classroom instruction. Outcome based education model is incorporated in the examination process. Question papers are prepared following Bloom's taxonomy. Learner-specific teaching pedagogy is adopted to cater to the needs of slow learners and advanced learners.

Attainment of Course Outcomes (COs), Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) is assessed by direct and indirect methods. The direct method includes the assessment in Continuous Assessment Examinations (CAE), End Semester Examinations (ESE), Assignments, Case Studies, Quizzes, and Miniprojects.

The indirect method of assessment is done through course exit surveys, graduate exit surveys, alumni surveys, and employer surveys.

The Programme Assessment Committee (PAC) and Department Advisory Committee (DAC) assist and play a crucial role in the assessment and evaluation of outcomes at the programme level. The successful implementation of OBE has resulted in the accreditation of ten Undergraduate Engineering Programmes and one Postgraduate Programme

in Management Studies by the National Board of Accreditation(NBA) and the accreditation of three Programmes by the Accreditation Board for Engineering and Technology (ABET).

21.Distance education/online education:

The Institution has established a Centre for Distance and Online Education (CDOE) in 2020 to disseminate knowledge and impart quality education in the open and distance learning modes.

Through this Centre, Sathyabama offers Online Learning (OL) programmes in Commerce, Business Administration, Mathematics and English literature contributing to the requirements of higher education for diverse learners. UGC has given approval for offering M.Sc. Mathematics, M.A. English, Master of Business Administration (MBA), Bachelor of Commerce (B.Com) and Bachelor of Business Administration (BBA) under Online Learning (OL) mode from 2021. The UGC has given approval to conduct these five programmes in ODL mode from 2022.

Since 2022, the Institution is involved in e- VBAB project, a capacity building initiative by the Government of India to educate students from Africa on a full scholarship. Students from various parts of Africa are studying in online mode through this project.

The strength of Sathyabama ODL/OL is its flexible programme structure. The Centre for Distance and Online Education uses software and digital resources to deliver effective online education. The Centre meet the needs of the students who have left school early by providing technology and skill-based vocational courses that will make them employable.

Extended Profile

1.Programme

1.1

77

Number of programmes offered during the year:

File Description	Documents
Data Template	View File

1.2	32
Number of departments offering academic programmes	
2.Student	
2.1	15170
Number of students during the year	
File Description	Documents
Data Template	View File
2.2	4046
Number of outgoing / final year students during the year:	
File Description	Documents
Data Template	View File
2.3	14994
Number of students appeared in the University examination during the year	
File Description	Documents
Data Template	View File
2.4	308
Number of revaluation applications during the year	
3.Academic	
3.1	2099
Number of courses in all Programmes during the year	
File Description	Documents
Data Template	View File
3.2	836
Number of full time teachers during the year	

File Description	Documents
Data Template	View File
3.3 Number of sanctioned posts during the year	836
File Description	Documents
Data Template	View File
4.Institution	
4.1 Number of eligible applications received for admissions to all the Programmes during the year	91484
File Description	Documents
Data Template	View File
4.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	1406
File Description	Documents
Data Template	View File
4.3 Total number of classrooms and seminar halls	369
4.4 Total number of computers in the campus for academic purpose	4174
4.5 Total expenditure excluding salary during the year (INR in lakhs)	20695.01667
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

The IQAC supports the Institution in introducing new programmes and developing / revising the Programme curriculum by comprehensive survey analysis, identifying the needs of the relevant Industries and other stakeholders.

The local needs are identified from the District Industrial Survey reports from Micro, Small and Medium Enterprise. Curricula are designed in collaboration with industrial experts as the constituting members of Board of studies and Academic Council. Sathyabama is instrumental in contributing to the achievement of national developmental needs by implementing NEP 2020. The Institute emphasizes global developmental needs in curricula by implementing student exchange and semester abroad programmes and prepares students to address global challenges.

Institutional vision and PO's are formulated aligning with national educational frameworks. PSOs and PEOs are developed to cater to the specific needs of the industry, local context, and the institution's mission. CO's are formulated based on learning objectives of each course, contributing to the achievement of PSOs, POs and ultimately addressing the global and national needs. The attainment of all the POs ensure the alignment of curricula with graduate attributes of NBA. Institution has well-structured outcomes and relevant educational framework that empowers students and supports the progress of the community and the world at large.

File Description	Documents
Upload relevant supporting document	View File

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

68

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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**1211**

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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****309**

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

1.2.2 - Number of Programmes in which Choice Based Credit System (CBCS)/elective course system has been implemented during the year**62**

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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 takes a progressive step for integrating crosscutting issues into its curriculum. The Institute aims in producing socially responsible and environmentally conscious graduates by infusing courses on professional ethics, gender equality, human values, environment, and sustainability. Inclusivity and value addition are the Institute's education model, incorporating the essence of which the curriculum is designed.

Credit courses are offered on Professional & Research Ethics and Universal Human Values ensuring the students make ethical and moral decisions in their future career. Workshops and orientation programmes are organised by Women Empowerment Bureau on Gender-related topics to promote equality and diversity. Courses on Environment and sustainability are part of the curriculum across all programmes apart from which workshops, seminars and conferences are organised. Awareness programmes, outreach and community service activities are carried out on environmental protection through our NCC, NSS and Community development clubs, thereby students gain a holistic understanding of these issues through experiential learning opportunities. The Institution celebrates national and international days of importance on all these crosscutting issues to nurture moral, ethical, and social values among the faculty and students.

By embracing crosscutting issues, the institution nurtures well-rounded graduates, ready to make a positive impact on society and the planet.

File Description	Documents
Upload relevant supporting document	View File

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

112

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

11130

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

1.3.4 - Number of students undertaking field projects / research projects / internships during the year**2896**

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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	View File

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	View File

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****4857**

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

1406

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

Institution has an effective diagnostic process to assess and support advanced and slow learners based on the entry-level exams in first year and regular assessment exams in subsequent semesters

Advanced learners are motivated through Merit awards and Col. Dr. Jeppiaar Remibai scholarships for academic top performers, Star of Excellence Award to meritorious students during graduation. They are encouraged to

- Participate in Inter and Intra college technical symposiums and Present tech-talks
- Organize workshops, seminars developing their leadership skills
- Pursue semester abroad and student exchange programmes
- Involve in field, funded and consultancy projects
- Trained on technical skills, soft skills and aptitude targeted at dream companies
- Take higher education & Civil Services coaching, value-added and certification courses
- Peer learning activities assisting slow learners.

The slow learners are provided support through

- Bridge courses in Computer Science, English and Mathematics in first year
- Induction programmes to make them aware of the scope of subjects
- Remedial, tutorial classes & compensatory classes
- Customized academic support with additional mentoring hours
- Learning materials
- Identifying individual skill sets and the mentors encourage students to participate in various activities, social

outreach, and symposiums.

- improving the self-confidence
- Encouraging to build prototypes by supporting them with mentorship, financial assistance and technical assistance

File Description	Documents
Upload relevant supporting document	View File
Link For Additional Information	https://www.sathyabama.ac.in/placements/training_placement_process

2.2.2 - Student - Full time teacher ratio during the year

Number of Students	Number of Teachers
15170	836

File Description	Documents
Upload relevant supporting document	View File

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

Student-centric approach is the central goal of the Institute fostering effective learning experiences of students. Curriculum is framed based on practice based learning with more than 60% of laboratory course. Teaching pedagogy ensure that the students are able to understand and solve complex problems.

Experiential learning is emphasized by engaging students in hands-on activities, simulations, real-time projects, internships, industrial visits, professional training and discussion forums. Technical and club events facilitate students to gain necessary knowledge on technical, economic, social, and environmental aspects. Institution focuses on research-based education, and students connect with research centres in the Institution, interact with researchers make joint publications, patent and consultancy services.

Participative learning encourages active involvement of students through group discussions, group activities, peer-to-peer interaction, project presentations, quiz, Case study-based learning etc. to enhance the learning abilities of the students, nurturing communication skills, teamwork, and respect for diverse viewpoints. Club activities paves way to engage in participatory learning that fosters leadership, communication, and team building skills.

Students are exposed to problem-solving methodologies with real-life challenges in projects empowering them as proactive problem-solvers in future career. These Student-centric methodologies drive a shift from passive knowledge consumption to active, lifelong learning. cater to varied learning styles.

File Description	Documents
Upload relevant supporting document	View File

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

Sathyabama has modern digitized learning environment for "blended learning". Our Faculty harness the power of ICT tools such as interactive smartboards, educational apps, and multimedia presentations to engage students dynamically. Online resources like NPTEL lectures, and interactive modules are used catering to diverse learning styles of students. Classrooms, and laboratories has computing facilities with wi-fi / LAN, LCD projectors and smartboards. The Virtual Computing Lab supports faculty and students for 24/7 remote access of software applications and other resources in the Institute laboratories

Faculty and students have 24/7 remote access to the Library's e-resources, including e-books, e-journals, magazines, references, textbooks and other learning resources, via a Knimbus mobile app from anywhere, at any time, on any device. The Institution has a Learning Management System for course management, assessment, evaluation and feedback supporting blended learning. Faculty are empowered through webinars and online MOOC courses. Ph.D Viva Voce examinations, DC meetings, video conferencing, and formal meetings are conducted through Zoom platform. Placement training, assessment and evaluation are accomplished through e-resources such as AMCAT and IAM neo as learning & test platforms and assessment platforms. Institute's Media Centre facilitate the preparation of e-content and Sathyabama YouTube channel hosts video lectures by the faculty.

File Description	Documents
Upload relevant supporting document	View File

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

2.3.3.1 - Number of mentors

752

File Description	Documents
Upload relevant supporting document	View File

2.4 - Teacher Profile and Quality

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

836

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

474

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

6337

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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**152**

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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****15****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****15**

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

2.5.2 - Total number of student complaints/grievances about evaluation against total number appeared in the examinations during the year**308**

File Description	Documents
Upload relevant supporting document	View File

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 CoE office operationalize the following automated examination and evaluation process through integration of 'Sathyabama Examination Tracking System (SETS 2015)".

- Student and course information, Time table, hall Ticket generation, attendance, dummy number generation, CGPA

computation, result analysis, revaluation, online fee payment, flexibility in credit transfer, and provision for online certificate verification

- Enhanced security features in certificates
- Practice of this system ensures faster declaration of results, considerable reduction in malpractices, confidential evaluation through encoding and decoding of answer booklets, timely issue of degree certificates, nullified chances of manipulation and duplication of certificates.
- The IT integration has reduced administrative burdens and improved accuracy, transparency, security, confidentiality, and accessibility
- Digital storage of records has streamlined record-keeping, access and manage assessment data.
- Data analysis enables faculty to identify trends, gaps, and areas for improvement.
- Digital submission of assignments, online quizzes and automated grading have minimized manual grading efforts and errors associated in continuous internal assessment.
- Ph.D and PG theses are evaluated through Plagiarism check software.
- Examination cell is equipped with CCTV surveillance to ensure vigilance and security.
- The OBE framework with Bloom's taxonomy levels based assessment is incorporated.

File Description	Documents
Upload relevant supporting document	View File

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	View File
Upload relevant supporting document	View File

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

The institution has a well-defined PEOs, POs, PSOs for all programs and COs for all the courses. All the engineering programs have generic Graduate attributes. PSOs are formulated addressing the specific requirements of programmes in alignment with the respective professional bodies such as ASME, ASCE, AICTE, IEEE etc. The curriculum and CO's are designed and revised in view of attaining the outcomes. The COs, PSOs, course articulation & programme articulation matrices framed in each programme are approved and reviewed periodically by programme assessment (PAC) and department advisory committees (DAC). Assessment questions are mapped with COs. Rubrics are formulated reflecting the performance indicators in Examination Reforms Policy from AICTE.

Publicizing COs, POs and PSOs

- The Vision-Mission of the Institution and department, the Programme Educational Objectives (PEO), Programme Outcomes (PO)s and Programme Specific Outcomes (PSO)s of every department are displayed in laboratory notice boards in the departments and displayed at the strategic locations in Schools
- POs and PSOs of all programmes are Published on the Institution's website, students' LMS and in curriculum books.
- The course outcomes are recorded in the curriculum, faculty log books and course file
- The laboratory manuals and record note books include POs and PSOs
- Department brochures contain information on POs and PSOs
- POs and PSOs are disseminated to students during orientation programmes and Cos of each course during the respective first lecture class
- Refresher and induction programs are conducted for faculty members on OBE

File Description	Documents
Upload relevant supporting document	View File

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 practiced to evaluate the attainment of COs, POs and PSOs using weighted average method in MS-EXCEL. The DAC & PAC periodically review and set the threshold for the attainment of COs, POs, and PSOs for each batch of students. COs are assessed

at the end of each course, POs and PSOs at the end of graduation. The outcomes are measured using direct and indirect methods in the proportion of 70% and 30% respectively on a three level scale. Direct attainment of CO is assessed through Examinations, Assignments, quiz, Projects and other instruments. Indirect attainment of CO is assessed through course exit survey at the end of each course. The CO attainment of each Course is analysed by the course coordinator and Head of Department. The PO and PSO direct attainment matrix is formed with the cumulative CO attainment matrices for the programme. Indirect attainment of POs and PSOs are carried out through graduate exit surveys, alumni surveys, and employer surveys. The target levels for measuring the outcomes are fixed by each programme. Upon consecutive three years of attainment of POs and PSOs, the target level is updated.

Measures are taken against the non-attainment of COs, POs and PSOs and an impact analysis is carried out, an action plan report is prepared which is a potential component for further improvement of curriculum design and delivery.

File Description	Documents
Upload relevant supporting document	View File

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

4046

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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://www.sathyabama.ac.in/sites/default/files/2023-12/2022-23.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

Institution regularly upgrades the research infrastructure and has well-defined policies for promoting research. The major component of the annual budget includes procurement and maintenance of the research infrastructure, equipment, research journals, subscription to indexed databases and financial support to faculty and students in research avenues. The institutional research promotion policy is uploaded in the website:

<https://www.sathyabama.ac.in/sites/default/files/2023-05/Policy%20for%20Promotion%20of%20Research%20%281%29.pdf>

The following research promotion schemes are in place for faculty to enhance research

- Seed money grant of Rs. 96.35lakhs in the academic year 2022-23
- Faculty with high impact factor research publications, high citation index, are awarded with cash prize.
- Incentives to faculty with funded projects and other research avenues
- Financial support for Patent filing, registration for conference and FDP participation
- sabbaticals leave for postdoctoral research
- Full time Ph.D research scholars paid with fellowship of Rs.15,000
- Research Committee to review the R&D activities
- Well formulated policies for domestic and International travel, seed grant, faculty & student exchange, consultancy, IPR, sustainable investment, guidelines for attending professional development programmes are in place for research promotion

Five of our Faculty were recognized as the Top 2% most Influential Scientists in 2023 by Stanford University Survey. Sathyabama ranked 601-800 in Times higher education impact ranking 2022 for sustainable development goals (SDG). Our faculty & scientists have been recognised and awarded worldwide in many research forums. These authenticates the institution's commitment to continuously improve research facilities and promote quality research.

File Description	Documents
Upload relevant supporting document	View File

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

96.35

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

22

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

37

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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	View File

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	View File
Upload relevant supporting document	View File

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)

13.32

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

1636.50239

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

0.07

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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 is constantly striving to create and nurture innovation

eco-system. The Institute houses Sathyabama Technology Business Incubator (TBI), Centre for Innovation & Technology Transfer, Institution Innovation Council, MSME business incubator, Sathyabama Innovation Council and IPR facilitation cell that plays an active role in transferring innovation in to product and start-ups.

- Sathyabama TBI supported by NSTEDB-DST & MSME, focusses on sustainable blue economy. It is recognized as one of the top 5 Incubators in Tamil Nadu by Startup-TN and funded by startup India seed fund scheme, EDII-TN and Sathyabama Start-up grant. It houses facilities such as Advanced Prototyping lab, Makers space, Bio Products lab, Training hall and work spaces. N.E.S.T is an initiative to create a sustainable entrepreneurial network of Entrepreneurs, Startups, Students and Technology experts. There are 35 mentors supported 57 startups, 26 student innovations, 100+ employment generated, with \$160K available startup credits, organized 15+ events in 2022-23.
- Sathyabama Innovation Council - Centre for Innovation and Technology Transfer is formed for nurturing deep tech start-ups providing 'Start to scale' support for technology based entrepreneurship and facilitates the conversion of research into entrepreneurial ventures. Services offered are: Rental Co-working space, Company Registration, Startup India Registration, IPR Support, Technology Transfer, Intern Support, Startup Acceleration, Mentor Connect Program, Marketing Guidance, Seed Funding Facilitation Program(IVP), Product Showcase, and Networking. Our Incubation Centre has committed to developing entrepreneurs in 3 Key thrust areas - Deep Technologies, Life sciences, Environment Technologies.

File Description	Documents
Upload relevant supporting document	View File

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

364

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

364

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

108

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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	View File

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	View File
Upload relevant supporting document	View File

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

276

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

122

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

1.4

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

283

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
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 Initiatives For Institutional LMS	A. Any 5 or all of the above
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
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
https://www.sathyabama.ac.in/research/publications	https://www.sathyabama.ac.in/research/publications
File Description	Documents
Any additional information	View File
Bibliometrics of the publications during the year	View File
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
2022-23 H-index - 35 ; Overall H-index - 104	2022-23 H-index - 20 ; Overall H-index - 88
File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	View File

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 has a transparent policy for consultancy and the same is displayed in the institutional website. The Policy document has detailed guidelines on the same.

<https://sist.sathyabama.ac.in/download/iqac/CONSULTANCYPOLICY2.pdf>

The policy primarily encourages faculty for establishing strong connect with industries to identify and solve industrial problems. The Institution values the efforts of faculty undertaking consultancy activities and encourages them with rewards. Faculty are supported with on duty and travel & other expenditure during official visits.

The following guidelines govern consultancy activities at the Institution:

- Revenue sharing between the faculty and Institution are in the proportion 9:1 for advisory consultancy and 6:4 for service consulting.
- There should be a demonstrable benefit to both Institution and faculty in way of income, and reputation
- The consultancy must not be in conflict with the policies, functions, objectives, or interests of the Institution or damage the Institution's reputation
- All the consultancy projects are required to include 5% overhead charges, due to the utilisation of the infrastructure facilities of the Institution
- Permission must be obtained prior to carrying out the consultancy work and the decision for approval is with the Institution
- The faculty is responsible for ensuring satisfactory progress, completion of the work and submission of detailed report.

File Description	Documents
Upload relevant supporting document	View File

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)

28.876

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

Sathyabama actively engages in various National Missions on extension activities such as Swachh Bharat, UBA, etc., bringing transformations in neighbourhood communities. Consistent efforts are put forth in bringing up holistic development of students towards addressing social issues. The clubs provide platform for students to indulge in various outreach activities.

The Institution practices following outreach activities

- "Madugai -The strength"- Health and Hygiene kits were distributed to boost the health of girl students at GHSS School, Semmencherry.
- Instilling social responsibility in our students - Centre for Ocean Research and waste management provides student internships through NGOs where students are encouraged for project ideas that address societal issues.
- Eco Club advocates the Green India initiative through awareness campaign, Tree Plantation, village cleaning at Kumizhi village
- Technology Interventions in five nearby adopted villages Venkatapuram, Appur, Thenmelpakkam, Otteri, and Kumizhi under UBA scheme
- Science on Wheels - 'mobile science laboratory' to rural students.
- Gramin Swatch Toilet at Kumuzhi village
- Rural Industrialization and Entrepreneurship Development in Kumuzhi adapting 3R concept of Recovery, Recycle and Reuse.
- Rural Non-Invasive Primary Health Kiosk in Thenmelpakkam village
- Nanoformulations mosquito larvae vector control in Venkatapuram - awareness on mosquito vector borne diseases among the rural population by distributing pamphlet.

- Monthly once medical and dental camps in adopted villages.
- "My Saturday University" - More than 50 Government Schools are benefited every year making use of the Institute's Laboratories on Saturdays

File Description	Documents
Upload relevant supporting document	View File

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

12

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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)

172

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

13744

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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**

158

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

59

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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.

Sathyabama spreads over 134 acres of green campus. More than 35 % of the built up area is used for academic activities such as class rooms, laboratories, seminar / conference halls, auditoriums etc. Institution has 363 classrooms, 6 seminar halls, 12 conference halls, and more than 205 laboratories across all domains of Science, Engineering, and Technology. Recent teaching learning facility addition in this academic year are:

- Department of Computer Science housing 63 ICT enabled class rooms , faculty cabins, laboratories and other facilities are developed with a built up area of 1,59,194 Sq.ft.

- 4 state of art laboratories - Centre for Computer Security and Society, Design Thinking Lab, Machine Vision Lab and Web 3 Lab equipped with 648 HP computers each with the high end configuration of Intel 5 processor,16 GB Ram, 256 SSD hard disk, 19" monitor, 4 GB graphic card, 2 high capacity servers
- In Centre for Advanced studies,Class rooms, faculty cabins,and other facilities are developed with an expansion of 52,763 Sq.ft area housing24 class rooms with the seating capacity of 30 each with high end configured individual computerfor each student

File Description	Documents
Upload relevant supporting document	View File

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

Sathyabama places equal emphasis for sports and academics, fostering the holistic development of students offering substantial support to sports enthusiasts. The institution has established outstanding sports facilities for volleyball, basketball, kabaddi, tennis, handball, football, hockey, kho-kho, cricket, other athletic games and indoor facilities for chess, carom, badminton, and table tennis.

Students with an outstanding sports background are granted admission through "Sports Quota". A dedicated Physical Director coaches' students to actively engage in district, state, national and international tournaments. Institution has organized numerous tournaments in collaboration with Association of Indian Universities. Our sports facilities are shared with local communities and corporates for hosting their sports events. A well-equipped air-conditioned indoor stadium is a notable addition in this assessment year to host a wide range of indoor tournaments.

Cultural programs are organized every year to nurture student talents. Institution has 11 Auditoriums, 12 Conference halls and an Open Air Theatre featuring exceptional thermal and acoustic amenities for hosting a wide range of student activities.Recreational facilities are available in the campus and competitions for singing, dancing, fashion show, drawing, etc are organized for faculty and students, where they are given opportunity to showcase their artistic talents.

We have well equipped Gymnasiums separately for Boys and Girls. Trainers and dietician are available to guide the students with

proper training and workouts to maintain their health and diet. There is a Yoga Centre, in which yoga sessions are conducted by trained yoga professionals, for faculty and students to maintain healthy mind and body.

File Description	Documents
Upload relevant supporting document	View File

4.1.3 - Availability of general campus facilities and overall ambience

Sathyabama has the following general facilities other than academic and research facilities;

- Beautiful green landscape with trees and plants of different species,
- Wide concrete internal roads connecting various amenities.
- Transportation services to faculty and students, encompassing more than 120 buses covering all areas of the city and reach out to four districts.
- Separate hostels for boys and girls spread over an area of 16,75,000 square feet with AC and Non AC Accommodation, prayer halls, 24/7 medical aid, fitness centres, dining halls, ATMs, laundry, Computer lab, and general stores, Cafeteria, Beauty spa
- A Centralised kitchen with 10 dining halls, each accommodating 700 people at a time.
- Child care centre with CCTV facility for monitoring by the parents
- General hospital with pharmacy facilities for the medical needs of the students and faculty with two Ambulances
- Indian Bank and ATMs
- Cafeteria at various locations for easy access
- Stationery store
- Common rooms for students
- 24/7 CCTV facility to ensure campus safety
- Eco-friendly battery vehicles to commute within the campus
- Religious Prayer halls
- Wi-Fi enabled campus
- Photocopying and Binding facilities
- Book store is available in the Institution where the students can buy books, notebooks and stationary items.
- Recreation facilities
- Facilities for Differently-abled Students

File Description	Documents
Upload relevant supporting document	View File

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

2975.21516

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

4.2 - Library as a Learning Resource

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

The library spreads over an area of 1,50,156 sq. ft. with a fully automated Library Management Software, "AutoLib" version 8.2. Digital Library has 120 Hi-end computers with internet and multimedia facilities, 3500+ CD's and DVD's to access e-resources. The library services and operations are automated with RFID technology. Web OPAC is used to access the catalogue online. Library portal offers access to 30,000+ e-journals, 2,00,000+ eBooks, and the Uniform Resource Locators (URLs) provided for scholarly open-source contents. The e-Library aggregates all the subscriptions, e-Book collections, open-access resources, multimedia learning content, and electronic document repositories. The significant accessible e-resources are IEEE Journals, Science Direct, IEEE Proceedings, ASME, ASCE, ACM, Springer, ProQuest and Web of Science. The Library has full access to the Derwent innovation patent search engine which allows faculty and students to search and check the originality of their inventions through AI powered analytics before filing patents. KNIMBUS Remote Access and m-Library Mobile App facilitates users with secure remote access to e-resources from any device, anywhere, at any time. Visually impaired students can access the library contents with the help of JAWS software. Other ICT based services are i) access to library through E-Gate entry system with an automatic scanner ii) CCTV surveillance cameras iii) Clarivate-Derwent Innovation PRO Patent Index data for R&D iv) Institution's e-thesis in Shodhganga Repository Portal v) NPTEL video lectures with the institutional repository vi) user feedback using QR code scanner vii) old E-question papers for reference

File Description	Documents
Upload relevant supporting document	View File
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	View File
4.2.3 - Annual expenditure for purchase of books/ e-books and subscription to journals/e-journals during the year (INR in Lakhs)	
218.77	
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
4.2.4 - Number of usage of library by teachers and students per day (foot falls and login data for online access)	
3722	
File Description	Documents
Upload relevant supporting document	View File
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	
369	
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

Recognizing the key role of IT in efficient connectivity and productivity, our institution has formulated and implemented a comprehensive IT policy accompanied by appropriate budgetary provisions to ensure the continuous improvement of our IT facilities. The key Components of the Institution's IT Policy are;

- Encompasses guidelines and protocols to govern the use, maintenance, and protection of information systems and technology resources.
- Emphasizes the implementation of security measures to safeguard sensitive information, ensuring data integrity and confidentiality.
- Outlines procedures for responsible data management, storage, disposal and data protection to protect the privacy rights of individuals associated with the institution.
- Clear guidelines are established for the responsible use of the institution's network resources that ensures optimal network performance, prevents unauthorized access, and promotes fair and ethical usage.
- Established procedures for the procurement, installation, and maintenance of software and hardware, ensuring compatibility, reliability, and efficiency across the institution.

To keep pace with technological advancements, our institution prioritizes regular updates to IT facilities. This includes hardware upgrades, software updates, and the expansion of Wi-Fi facilities to meet the growing demands of a connected campus. Sathyabama places special emphasis on enhancing Wi-Fi facilities, upgrading to the latest Wi-Fi standards, expanding coverage areas, and ensuring a reliable and high-speed connection to support the diverse needs of students, faculty, and staff. Dedicated budget is allotted for the procurement of IT facilities, software licenses, security systems, and regular maintenance in the IT landscape.

File Description	Documents
Upload relevant supporting document	View File

4.3.3 - Student - Computer ratio during the year

Number of students	Number of Computers available to students for academic purposes
15,170	4174

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

- ?1 GBPS

File Description	Documents
Upload relevant supporting document	View File

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	View File
Upload the data template	View File

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

? 93,61,89,126

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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.

University places a strong emphasis on creating an optimal learning environment through the periodic and effective management of physical, academic, and support facilities.

Maintenance Cell manages the maintenance of the key facilities including classrooms, Auditoriums, seminar halls, etc. Estate manager takes care of the maintenance of civil infrastructures.

The central library is managed by a Librarian, Assistant Librarian and supporting staff to look after the overall maintenance and utilization.

The respective laboratory in charges in each department and research centres ensures the effective inventory management system in place. To enhance the proficiency of the user, training is given to students, staff and other users on handling of the specialized equipments in laboratories.

Networking team manages the utilization and maintenance of all computers and other IT facilities.

An Online system is available for booking Auditorium, seminar halls, smart class rooms that ensures efficient allocation of resources.

Physical Director manages the maintenance schedules to inspect and upkeep sports infrastructure and equipments. Specialized equipments are covered in training sessions to enhance user proficiency.

Surveillance systems are strategically placed to monitor key areas preventing misuse.

Orientation programs are conducted for students and newly appointed staff to familiarize them with the proper use of facilities.

A robust feedback mechanism is in place, allowing the users to provide insights on facilities, that is used to analyse and identify areas for improvement. The implemented systems and procedures are regularly reviewed ensuring for continuous improvement.

File Description	Documents
Upload relevant supporting document	View File

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)

1790

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

10976

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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	View File
Upload relevant supporting document	View File

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	View File

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**

796

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

3096

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

239

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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**

138

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

The Student Council serves as a communication bridge for sharing the information between administrative officials and the students. The Council comprises a President, Vice President, Secretary, Joint Secretary, Sports Secretary, Cultural Secretary, one student representative from each School, and a senior faculty member. The Student Council meets twice a year to discuss various student-related issues and suggestions. The functioning of the student council comes under the purview of the Dean of Student Affairs. The council is recognized as the top student representative body and highly supported by the Institution. It works in liaison with the 33 active student development clubs. Its functions are:

- Addressing Student Concerns on academic and non-academic issues liaising with concerned in charges.
- Organizing cultural, sports, and academic competitions that promote student participation, teamwork, and creativity.
- Promotes student involvement in intra- and inter-institutional competitions and self-development activities.
- To support the administrative officials and faculty in the development of the Institution by sharing opinions and feedback
- Engaging in community services, eco-friendly initiatives through NSS, NCC, YRC and community development clubs. that help instill a sense of social responsibility and empathy among students
- Leadership and Skill Development programs are organized to help students enhance their communication, and problem-solving skills

File Description	Documents
Upload relevant supporting document	View File

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

15

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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 with 55,000 + members, established in the year of 1993, The chapter plays a vital role in the development of the institution through their diverse support services including financial contributions, mentorship, networking opportunities, and knowledge sharing. Our Alumni are successful professionals in various industries and serve as our brand ambassadors at the national and international levels creating brand visibility for the Institution thereby attracting more students.

They act as a valuable platform for mentoring students by sharing their experiences, expertise and enhancing the employability of students and preparing them for facing the professional career. Our alumni network is a powerful resource that organizes alumni reunions, online and physical interactions between alumni and students opening doors for internships, placements, projects, and exchange programmes

Institute leverage this expertise by involving alumni as a one of the constitution member in Board of Studies and IQAC panel discussions and utilize their contribution in curriculum development process and that enhance the quality of education. They support in conducting mock interviews and Alumni Talk Series. The Institution invites nominations from prospective alumni for the "Distinguished Alumni Award" to recognise their professional accomplishments.

File Description	Documents
Upload relevant supporting document	View File

5.4.2 - Alumni contribution during the year (INR in Lakhs)

A. ? 5Lakhs

File Description	Documents
Upload relevant supporting document	View File

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

Vision of the Institution

- Be a leading multidisciplinary University, producing world class talents to address global challenges

Mission of the Institution

- To attain excellence in Education and Research through effective collaboration with Industries and other International/National organisations
- To consistently remain an attractive ecosystem for students and employees, a hub of innovation for researchers and an incubating platform for entrepreneurs
- To create an inclusive environment that caters to all forms of diversity
- To engage in outreach and community development activities, creating an impact on the society

To achieve the vision and mission, the institution has an established system of governance. The Board of Management, Finance Committee, Academic Council, Board of Studies, Department Advisory Committee, and Programme Assessment Committee are the executive and administrative bodies that supports the governance of the Institution. The institution's main executive body is the Board of Management. The Academic Council consider matters of academic interest and exercise general supervision over the academic work of the institution and gives direction regarding methods of instruction, evaluation, and improvements in academic standards. Research Centres supporting research in specialist fields of science and technology have been established by Sathyabama. Research Committee of the institution facilitates research that addresses societal needs and support the institution towards achieving the mission of serving the community.

File Description	Documents
Upload relevant supporting document	View File

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

The Institution provides necessary autonomy to all the administrative and operational authorities that allows them to function effectively and contribute to the development of the Institution. Participative management is practiced through various Committees constituting faculty members from different disciplines and at different positions. They are given responsibility to handle various core functions of the Institution. In order to give exposure to everyone to gain academic and professional development, the positions will be filled on rotation.

This committee functions under the guidance of Administrative authorities such as Vice Chancellor, Pro Vice Chancellor, Registrar, Director-Administration, Controller of Examination, Director-Research, Dean-Placement and IQAC. The respective Committees are involved in all the major activities of the Institution that directs the institution towards the achievement of strategic goals. The members of the Committees are consulted and their opinion is given due weightage whenever important decisions are made. 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 Committee come out with new and innovative ideas to solve the problems while implementing the strategic plans of the institution. The Committee members display leadership qualities when they lead and guide their respective extended team members and the effective leadership is the most important critical factor for the growth and success of the Institution.

File Description	Documents
Upload relevant supporting document	View File

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic plan is effectively deployed

The Institution has taken systematic measures to fruitfully convert the Strategic Plan into action. During the year 2022-2023 the following are some of the achievements:

- Sathyabama Institute of Science and Technology is accredited with A++ Grade by NAAC in 2023 in the third cycle.
- The Institution is graded as Category-1 Deemed to be University by the University Grants Commission in 2023.
- Placed in good positions in National and International Rankings
 - The Institution is Ranked in the 51st position among the Universities in India by National Institutional Ranking Framework, 2023
 - QS World University Rankings, 2024 - # 1001-1200
 - QS Asia University Rankings, 2024- # 401-450
 - Times Higher Education World University Rankings, 2024 - 1201-1500 band
 - Times Higher Education Asia University Rankings, 2024- 501-600 band
- Introduced 6 new degree programs
- Got the approval to start five ODL programmes
- Got 3 Programmes (CSE, EEE, Biotechnology) accredited by ABET
- Strengthened digital infrastructure
- Laboratories like INNOSPACE- FAB LAB, Advanced Geoinformatics Lab, Advanced Geo-Chemical Laboratory, Halophytes Micropropagation Laboratory, Advanced Steel Research Facility, Design Thinking Lab, Machine Vision Lab, Web 3 Lab were established
- Centre of Excellence in AI and Embedded Systems has been established
- The Institution has signed agreements to initiate twinning and dual degree programmes with eligible international institutions
- Memorandums of Understanding have been signed with many national & international industries, research organizations and has successfully initiated several collaborative activities

File Description	Documents
Upload relevant supporting document	View File

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 Institution has excellent administrative setup, systems, policies and procedures that facilitate effective and efficient functioning. The Board of Management formulates all policies and procedures and provides academic and administrative leadership.

The Planning and Monitoring Committee is involved in strategic planning and monitors its execution. The Planning and Monitoring Committee makes recommendations to the academic council and board of management on any issue it deems essential to achieving the institution's goals. The Finance Committee headed by the Vice Chancellor has the power to consider the annual accounts and financial estimates of the Institution. The finance committee recommends the annual budget and estimates to the Board of Management.

The Academic Council exercises general supervision over the academic activities of the Institution. The Internal Quality Assurance Cell (IQAC) is responsible for the adherence of quality assurance processes, the preparation of policies, and the implementation of tools and techniques for quality improvement.

The procedure relating to the appointment of administrative staff, faculty, and technical staff, pay scale, allowances, increments, performance appraisal, promotion, severance, leave rules, social security benefits, duties and responsibilities and code of conduct for staff are stated in the Service Rules of the Institution.

File Description	Documents
Upload relevant supporting document	View File

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	View File
Upload relevant supporting document	View File

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

Performance of the staff is objectively evaluated at the end of each academic year using SScore. SScore is a tool which assesses the performance of Academic and Research Faculty of Sathyabama based on their contribution to academics, research and social outreach. The most important quantitative indicators like 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/research grants received are used to evaluate.

The score secured by each faculty member is then converted into monetary value by multiplying the score with the value assigned for each score. The top ten scorers from academic and research side are recognized with best performer award along with a cash prize during the Teachers Day celebration of the Institution.

Welfare Measures

- Provident Fund
- Gratuity
- Group Insurance
- Free health check-ups and treatment in the Institution's general hospital
- Medical leave
- Maternity leave
- Marriage leave
- Sabbatical leave
- Sponsoring the faculty to participate in national and international conferences
- Cash awards for research publications in high-impact journals
- Skill development programmes for non-teaching staff
- Sponsoring Faculty exchange at foreign universities
- Total or partial waiver of tuition fees for the children of employees
- Award to the children of employees who excel in Board Exams
- Holy Trip to employees
- Child Care Centre
- Free food and free transportation services for employees

File Description	Documents
Upload relevant supporting document	View File

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

165

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

88

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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)

658

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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 are mobilised primarily from three sources: tuition fees, consulting work, and resources from the Sponsoring Trust (Sathyabama Institute of Science and Technology Trust).

Fund mobilisation Strategies:

- Collection of tuition fees from the students
- Collection of fees for on-campus housing provided to students
- Applying for various funded research projects from various

Government Agencies

- Applying for funds for infrastructure development under the various schemes
- Applying for funds for conducting conferences, workshops, and seminars
- Providing consultancy services to clients in industry and academia
- Commercializing the intellectual property rights (patents) into market viable products
- Collection of fees from incubatees/start-ups incubated at the Sathyabama innovation Council /
- Sathyabama Technology Business Incubator
- Consultation services offered for the utilisation of the infrastructure
- Organising Training Programmes and workshops on various thrust areas for people from the
- industry, academia, and students

Fund utilization:

- Food and transportation facilities extended to the staff and students
- Improving the teaching and learning process
- Provision of student support services
- Scholarships for students under various schemes
- Compensation for the employees
- Faculty Development Initiatives
- welfare facilities
- Industry academia interactions
- Maintenance and upgradation of ERP
- Infrastructure development
- Upgradation of laboratories and library
- Establishing advanced laboratories
- ISR activities
- Seed fund
- Internationalisation activities
- Branding and promotion
- Promoting the innovation ecosystem

File Description	Documents
Upload relevant supporting document	View File

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)

20

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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)

28.04

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

6.4.4 - Institution conducts internal and external financial audits regularly

The Institution follows the best financial best practices and the accounts are properly maintained by the Accounts Department complying to the accounting rules and regulations. The Finance Committee is responsible for planning and monitoring the Institution's financial position and meets twice a year for financial planning.

Internal and external financial audits are conducted periodically by Registered Practicing Auditors. A thorough audit is conducted on the institution's major financial activities, such as payroll, income and expenditure, fee receipts and settlements, etc. Quarterly internal audit is conducted by a team of auditors, headed by Mr. Thiayagarajan. Any shortcomings observed in the internal audit are corrected before initiating the external audit process. Mr. S. Ramakrishnan of Ramakrishna Associates, a renowned auditing firm in Chennai conducts the external audit of the Institution, following the guidelines and submits the report to the Accounts office.

Mechanism for settling audit objections

The Finance Committee, headed by the Vice Chancellor, examines the

observations and suggests remedial measures. The finance committee provides clarifications and justifications to the satisfaction of the audit team. The compliance report and the accounts are then validated by the external auditor. The annual report is discussed in the annual board of management meeting.

File Description	Documents
Upload relevant supporting document	View File

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

IQAC device procedures and mechanisms to maintain quality in all the operational aspects of the Institution's system and ensures continuous improvement. IQAC reviews the teaching learning process and learning outcomes at periodic intervals. It reviews all processes structures and methodologies as a measure of quality sustenance.

The Academic Council is the principal academic body responsible for the maintenance of

standards of teaching, research, approval of syllabus and examinations. Programme Assessment Committee (PAC) and Department Advisory Committee (DAC) are involved in the process of curriculum designing. Based on Programme Outcomes and the feedback obtained from the stakeholders, Programme Assessment Committee frames the draft curriculum. After receiving the suggestions from the Department Advisory Committee, the curriculum is submitted to Board of Studies for further discussions and recommendations. Curriculum is vetted before Academic Council and is then submitted to Board of Management for approval.

IQAC takes all necessary initiatives for improving the curriculum and its enrichment. IQAC organizes workshops and seminars to the faculty to teach them and improve their expertise in the curriculum design and development. IQAC supports in the curriculum designing process by getting feedback from different stakeholders such as students, Faculty, Alumni, Parents and Industry.

File Description	Documents
Upload relevant supporting document	View File

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
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File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

<p>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)</p> <ul style="list-style-type: none"> • Major Curriculum revision is carried out considering the measures on NEP and SDG (Regulation 2023) • New Programmes on Bachelor of Physiotherapy, Master of Law in IPR, Constitutional Law and Criminal Law are introduced • Credit course are introduced exclusively for skill development and employment enhancement in all engineering programmes • Faculty training for NEN Ignite - a course on entrepreneurship is conducted in order to handle the same course for the students • Faculty induction programme is arranged to get awareness on NEP and SDG • Departments are encouraged to organize more number of value added courses to empower the students for growing Industrial Demands • Sathyabama Centre for Advanced Studies is established with state of art research facilities • Number of consultancy services are increased through revised consultancy policy
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- Collaborative research activities are strengthened with increased number of MoUs with national/international academia, industries and research organisations
- Institutional seed fund is increased to promote the quality developments in research
- Startups are encouraged through Seed India Startup grants
- E-governance system is strengthened
- Academic & Administrative Audit, Green, Environment, Energy and Water Audit are conducted
- Self-Study report is submitted for NAAC Accreditation
- The institutional data is submitted for NIRF, ARIIA, Times Impact Rankings and QS Ranking
 - Second phase of NBA accreditation - SAR submission, peer team visit and accreditation for CSE, EEE and Biotech departments.
 - International ABET accreditation - peer team visit and accreditation for CSE, EEE and Biotech departments.

File Description	Documents
Upload relevant supporting document	View File

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

Promoting gender equity is a consistently ongoing process at the Institute with a commitment from the leadership and active involvement of all employees. Following are some of the measures in practice to promote gender equity:

- Ensures equal employment opportunities to all genders.
- Gender equity policy is implemented that prevent gender-based discrimination during admission and recruitment.
- Gender Sensitivity Training and awareness campaigns are organised by Women's Empowerment Bureau for employees and students to raise awareness about gender issues, biases, and the importance of an inclusive workplace.
- Ensured that all employees receive fair compensation for work,

regardless of their gender.

- Encourages, supports and promotes women's leadership development through mentoring programs, leadership workshops, and provide equal opportunities for career advancement.
- Diverse gender representation at all levels including leadership positions and decision-making bodies.
- Ensures safe, supportive and harassment-free environment
- Childcare support for employees to balance work and family.
- Female employees are provided with maternity and child care leave
- Significant number of women cadets are in the NCC wing
- Motivates participation of female students in Sports, Cultural and other extracurricular activities
- Anti-Ragging, Grievance Redressal, Psychology cell, and Internal Complaints Committees have female faculty to address thegrievances, sexual harassment and psychological issues of female students.

File Description	Documents
Upload relevant supporting document	View File
Annual gender sensitization action plan(s)	https://sist.sathyabama.ac.in/sist_naac/aqar_2022_2023/documents/7.1.1/7.1.1_AnnualGenderSensitizationActionPlan.pdf
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	https://sist.sathyabama.ac.in/sist_naac/aqar_2022_2023/documents/7.1.1/7.1.1.pdf

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	View File

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

Solid waste management

1. Around 1000 kgs of food waste is processed and 80 cubic metres of biogas is generated per day approximately equivalent to 2 commercial LPG cylinders of 45 kg capacity.
2. Portion of food waste is treated and converted into activated carbon to treat wastewater.
3. Other solid waste are given for recycled papers through vendors

Liquid waste management

1. A 1.5 MLD sewage treatment plant is functioning for the recycling of wastewater from bathroom, kitchen and wash areas and effectively used for gardening and flushing toilets.
2. Waste cooking oil from the Institution's kitchen is used to generate Biodiesel.

Biomedical waste management

1. The biomedical waste is first separated in secured sealed color-coded bags, and given to the authorised dealer GJMulticlave (India) Pvt. Ltd. for disposal.
2. The necessary documentation are maintained by the trained doctors and support workers.
3. The guidelines are adhered to, at every level of waste management, including cleaning up the waste storage area and labelling the trash cans.

E-waste management

1. E-waste are disposed through an authorised recycler Earth Sense Recycle Pvt. Limited, Chennai

Waste recycling system

1. Plastic waste used for recycled papers
2. Metal wastes disposed to scrap dealers.

Hazardous chemicals are disposed of through wastewater pipeline

File Description	Documents
Upload relevant supporting document	View File
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	View File
7.1.5 - Green campus initiatives include	
7.1.5.1 - The institutional initiatives for greening the campus are as follows: <ol style="list-style-type: none"> 1. Restricted entry of automobiles 2. Use of bicycles/ Battery-powered vehicles 3. Pedestrian-friendly pathways 4. Ban on use of plastic 5. Landscaping 	A. Any 4 or All of the above
File Description	Documents
Upload relevant supporting document	View File
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: <ol style="list-style-type: none"> 1. Green audit 2. Energy audit 3. Environment audit 4. Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities 	A. Any 4 or all of the above

File Description	Documents
Upload relevant supporting document	View File

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	View File

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)

The institution is undertaking the following measures to foster an inclusive environment to embrace diversities in all forms.

- Promotes tolerance and harmony among students and staff with cultural, regional, linguistic, communal, socio-economic, and other diversities.
- Encourages diversity through its recruitment and admission processes, ensuring representation from various backgrounds.
- Awareness campaigns, workshops, and seminars are organized to promote understanding and sensitization about the importance of inclusivity by encouraging exchange of ideas, fostering mutual respect and empathy.
- Provides resources and support for cultural and regional clubs or societies, allowing students and employees to express their identities proudly. This cultivates a sense of belonging and creates opportunities for cross-cultural interactions.
- Offers language support services and promotes multilingual communication for individuals from diverse linguistic backgrounds.
- Actively collaborates with local villages through adoption programme and NGO's to address socio-economic differences,

engaging in philanthropic activities to uplift underprivileged groups.

- Provides infrastructural and learning support to Divyangjan students, acid attack victims, and students with learning difficulties.
- Offers scholarships to socially and economically backward students.
- Celebrates all religious festivals
- Has Anti-discrimination and Minority protection policies to safeguard the rights of underrepresented groups.

File Description	Documents
Upload relevant supporting document	View File

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

In an educational institution, students represent the future leaders and contributors to society. Sathyabama promotes various measures to sensitize students and staff to understand their rights, and responsibilities as citizens and in safeguarding constitutional obligations.

- Students and employees are educated about the Constitution's fundamental principles, and values, such as justice, rights, liberty, equality, and fraternity ensuring they can protect and exercise them responsibly.
- Conduct interactive workshops and seminars led by experts in constitutional law and civic education, legal professionals, civil rights activists, and public servants to share their experiences and insights on citizenship, constitutional principles, historical context, and its relevance in modern times.
- Encourage students and employees to actively engage with the local communities that address social issues and promote social justice.
- Organize debate competitions and role-playing activities on constitutional topics to promotes a sense of civic duty, encouraging active participation in community affairs and nation-building.
- Celebrate Constitution Day, to highlight its significance in shaping the nation.

- These measures foster a deeper understanding of the Constitution and its implications, enabling the students and staff to make informed decisions and actively participate in the democratic process.
- Provide training sessions for employees in constitutional obligations who serve as role models for 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 students, teachers, administrators and other staff Annual awareness programmes on Code of Conduct are organized

All of the above

File Description	Documents
Upload relevant supporting document	View File

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

Sathyabama enthusiastically celebrates religious festivals including Diwali, Christmas, Ayudha Pooja, Pongal, Onam, and Ramzan. Gifts are given to non-teaching and Transport staff during Ayudha Pooja. Ganesh Chaturthi, Krishna Jayanthi, Ugadhi, Vishu and Holi are declared holidays. Muslim students and staff are provided with Iftar meals in accordance with the Ramadan tradition during the month. Special food is served in mess during all these days of celebrations. All Muslim students and staff are permitted to go to Mosque for Namaz on Fridays. Devotees of Ayyappa are served food with banana leaf respecting their tradition. Wishes are sent from the management to all the students and staff on all festivals.

National days of Importance such as Independence and Republic Days are celebrated in a very formal and patriotic manner with a parade by the three NCC wing cadets -Army, Navy Flag hoisting is followed by cultural programmes, sweet distribution and a special breakfast for all students and staff of the Institution.

Teachers' Day is celebrated and Faculty are felicitated with cash awards and certificates for their contribution to the field of

teaching and research. National and International Commemorative Days are observed in the Institution through seminars, lecture series, and student competitions.

File Description	Documents
Upload relevant supporting document	View File

7.2 - Best Practices

7.2.1 - Describe one best practice successfully implemented by the Institution as per NAAC format provided in the Manual

1. Title- Strengthening the Innovation Eco system

2. Objectives

- To contribute to the strengthening of the entrepreneurial ecosystem of the nation by strengthening the innovation ecosystem of the institution through planned interventions

3. The Context

Higher educational institutions are one of the major actors in the ecosystem and they can take the lead and act as change agents in transforming ecosystems. Sathyabama has a strong innovation ecosystem and provides an enabling environment that facilitates innovation and entrepreneurship.

4. The Practice

Strategies to strengthen the innovation ecosystem:

- Establishment of Research Centres in the frontier areas of Science and Technology
- Setting up Centres of Excellence
- Seed funding
- Collaboration with Industries and Universities
- Strengthening the research infrastructure
- Establishment of a Centre for Innovation and Technology Transfer
- Policies for promotion of research namely IPR policy, seed fund policy, innovation and start-up policy
- Setting up IPR facilitation Cell to support and promote innovation and protect intellectual property

5. Evidence of success

- 77 patents granted, 199 patents are published in 2022-23
- Received Rs. 5.25 Crores under Startup India Seed Fund Scheme to support Startups
- Received IVP fund from the EDII, Tamil Nadu for 8 startups
- 9 products have received financial support for patenting under KAPILA scheme of AICTE
- 1182 research papers are indexed in Scopus and 686 papers are indexed in WoS. with a H index of 93 and 6204 research papers are indexed in Web of Science with a H index of 82
- 1600 Joint Publications

6. Problems encountered

- Working with the stakeholders of the ecosystem to co-create policies and programs that promote a conducive ecosystem for innovation

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)

Sathyabama has adopted 6 villages under Unnat Bharath Abhiyan, a Government of India's initiative and helping them in solving some of their day-to-day problems by providing technological solutions. Some of the initiatives are:

- A mobile science laboratory has been set up at Appur village to kindle the rural pupil to develop curiosity in science and propagate scientific temper
- An AI enabled multilingual voice Bot for creating Awareness to Dispensing Maternal and Child Care through Interactive Voice Response System for Rural Women has been set up at Otteri village
- A Rural Non-Invasive Primary Health Kiosk has been installed at Thenmelpakkam
- Women at Kumuzhi village were trained on making Incense Sticks by recycling flower waste
- To control mosquito at Venkatapuram Village the researchers have formulated a Nanoformulation

The researchers of the institution have trained the people of Aadhanur, Eachampoondi, and Periakottagam villages, belonging to the SC community, on biodiesel production, biochar production from agro-waste, accelerated biocompost production from vegetable market waste, flyash brick making, hydroponics, and an alternate farming technology through the recently established STI hub in Cuddalore, Kattumannarkoil taluk.

People belonging to the ST community from Peenjamandhai, Pallambattu, and Jarthamkollai Panchayats of Jawadhu Hills are provided training on millet cultivation, produce value added products from millets, medicinal plant cultivation, and bee farming through the Agri Innovation Hub. They are also provided with technological assistance for digital marketing. Skill development programmes on baking, tailoring, electrical work, and laptop repair are organised for them.

7.3.2 - Plan of action for the next academic year

- Introduce programs like Pharm.D - Doctor of Pharmacy, M.Pharm, 3 PG programmes in LLM - Constitutional Law and Legal Order, Intellectual Property Laws, Criminal Law, B,Sc. in Data Science, BCA in Computer Science Applications and B,Sc. in Information Technology.
- MATLAB Campuswide Licensed software
- Lab heavy courses and Project based learning approach
- ABET international accreditations for the department of B.E in ECE, Mechanical
- NBA reaccreditations for the departments of B. E IT, Bio Medical, Civil, Chemical, Aeronautical and MBA
- Focus towards securing higher ranking in NIRF, THE, QS etc.
- Transition from ISO QMS 9001:2015 to EOMS 21001:2018 certification
- To increase research funding through Government and Non-Government organizations by enhancing research activities
- To enhance start up culture with all necessary motivation, inputs and support
- To strengthen MoUs with leading academic, Industrial and research organizations worldwide to facilitate knowledge exchange, research, internship and placement opportunities for students

- Upgrading and modernizing the laboratories with state-of-the-art equipment facilities like material synthesis & characterization, battery fabrication and testing, CCSEA approved preclinical and translational research, Bio imaging and cellular architecture, 3D organoids printing, FACs - multiomics research platform, AI Supercomputing facility, Metaverse Studio, Drones and Robotics Experimentarium , vector borne disease research, Bioenergy and waste water remediation, Impact of climate change on marine organism, multiband satellite remote sensing, Additive manufacturing, Fish breeding and Aquatic animal husbandry, Bio fermentation and down streaming, Environmental trace elements assessment, open ocean exposure facility
- To conduct Academic, Administrative , Green, Environment, Energy and Water Audits