SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(Established under Section 3 of UGC Act, 1956)

Accredited by NAAC (A Christian Minority Institution)

INTERNAL QUALITY ASSURANCE CELL

ANNUAL QUALITY ASSURANCE REPORT (2017 – 2018)

The Annual Quality Assurance Report (AQAR) of the IQAC

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC.

Part – A

1. Details of the Institution

1.1 Name of the Institution
SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

1.2 Address Line 1
Jeppiaar Nagar

Address Line 2
Rajiv Gandhi Salai

City/Town
Chennai

State
Tamilnadu

Pin Code
600119

Institution e-mail address
registrar@sathyabama.ac.in

Contact Nos.
24503150 / 24503151 / 24503152 / 24503154

Name of the Head of the Institution
Dr. S. Sundar Manoharan

Tel. No. with STD Code:
+91-44-24503737

Mobile:
7397293932

Name of the IQAC Co-ordinator:
Dr. R. Subhashini

Mobile:
7550122707

IQAC e-mail address:
iqac@sathyabama.ac.in

NAAC Track ID *(For ex. MHCOGN 18879)*   TNUNGN10127

1.3 **NAAC Executive Committee No. &Date:**   EC (SC) / 27 / A & A / 35.2 dated Sep 12, 2017

(For Example EC/32/A&A/143 dated 3-5-2004.

This EC no. is available in the right corner-bottom

of your institution's Accreditation Certificate)

1.4 Website address: www.sathyabama.ac.in

Web-link of the AQAR: http://www.sathyabama.ac.in/documents/IQAR/AQAR_2017_2018.pdf

1.5 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1st Cycle	B++	80-85%	2006	5 Years
2	2nd Cycle	A	3.09	2017	5 Years

1.6 Date of Establishment of IQAC: DD/MM/YYYY   03/07/2007

1.7 AQAR for the year*(for example 2010-11)*   2017 – 2018

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC

    i.   AQAR 2006 – 2007 submitted to NAAC on 16/07/2007

    ii. AQAR 2007 – 2008 submitted to NAAC on 29/08/2008

    iii. AQAR 2008 – 2009 submitted to NAAC on 07/08/2009

    iv. AQAR 2009 – 2010 submitted to NAAC on 08/09/2010

    v.   AQAR 2010 – 2011 submitted to NAAC on 22/07/2011

    vi. AQAR 2011 – 2012 submitted to NAAC on 16/07/2012

    vii. AQAR 2012 – 2013 submitted to NAAC on 09/08/2013

    viii. AQAR 2013 – 2014 submitted to NAAC on 16/07/2014

    ix. AQAR 2014 – 2015 submitted to NAAC on 05/08/2015

    x.   AQAR 2015 – 2016 submitted to NAAC on 17/08/2016

    xi. AQAR 2016 – 2017 submitted to NAAC on 18/08/2017

    xii. AQAR 2017 – 2018 submitted to NAAC on

1.9 Institutional Status

University   State `-`   Central `-`   Deemed `✓`   Private `-`

Affiliated College   Yes `-`   No `✓`

Constituent College   Yes `-`   No `✓`

Autonomous College of UGC   Yes `-`   No `✓`

Regulatory Agency approved Institution   Yes `✓`   No `-`

UGC, MHRD, DCI, COA, AICTE, BCI

Type of Institution   Co-education `✓`   Men `-`   Women `-`

Urban `✓`   Rural `-`   Tribal `-`

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

Grant-in-aid + Self Financing `-`   Totally Self-financing `✓`

1.10 Type of Faculty/Programme

Arts `✓`   Science `✓`   Commerce `✓`   Law `-`   PEI (PhysEdu) `-`

TEI (Edu) `☐` Engineering `✓`   Health Science `✓`   Management `✓`

Others (Specify) `--`

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

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

Autonomy by State/Central Govt./University   Category "A" University by MHRD

University with Potential for Excellence   `--`   UGC-CPE   `--`

DST Star Scheme   `--`   UGC-CE   `--`

UGC-Special Assistance Programme | -- | DST-FIST | ✓ * |

UGC-Innovative PG programmes | -- | Any other (*Specify*) | -- |

UGC-COP Programmes | -- |

* DST-FIST Sponsored Lab- Life Sciences, Physical Science and Engineering Sciences

2. IQAC Composition and Activities

2.1 No. of Teachers | 5 |

2.2 No. of Administrative/Technical Staff | 2 |

2.3 No. of Students | 2 |

2.4 No. of Management Representatives | 2 |

2.5 No. of Alumni | 1 |

2.6 No. of any other stakeholder and | 2 |

     Community Representatives

2.7 No. of Employers/ Industrialists | 2 |

2.8 No. of other External Experts | 1 |

2.9 Total No. of Members | 17 |

2.10 No. Of IQAC meetings held | 4 |

2.11 No. of meetings with various stakeholders:

    Faculty | 12 | Non-Teaching Staff | 4 |

    Students Alumni | 1 | Students | 12 | Others | - |

2.12 Has IQAC received any funding from UGC during the year? Yes | - | No | ✓ |

If yes, mention the amount | -- |

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos. | 4 | International | - | National | 1 | State | - | Institution Level | 3 |

(ii) Themes

> - "Introduction to Indian Patenting Procedures"
> - "Free Cycling Discussion on How to write a Technical Research Paper"
> - Workshop on "Outcome Based Education"
> - "Faculty Research Review Symposium"

2.14 Significant Activities and contributions made by IQAC

- Review of Academic and Research Performance of Faculty Members belonging to various schools and research centres has been exercised from March 2018 to June 2018 by the Governing Body with the IQAC Chairperson.
- Student's Feedback is scheduled and executed by IQAC: Summarized Feedback report has been utilized by the Governing Body for Performance Evaluation of Faculty Member, infrastructure and other facilities.
- Database of Existing Staff Information System is suitably modified in order to retrieve the data as and when required with special added features along with the supporting documents.
- Faculty Members and Students take up more number of NPTEL Courses / GIAN Courses – Credit Transfer for the benefit of students have been suggested to the Controller of Examinations.
- National Seminar on "Introduction to Indian Patenting Procedures" was held on 19.08.2017
- To kindle the Research Activity of the Faculty Members and to encourage their performance Self Analysis for Quality Publications was executed by IQAC to each school in the month of October 2017.
- Academic Audit was scheduled and executed with the support of Internal Assessors.
- The report for each school is consolidated and the findings are communicated to the respective Deans.

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year *

Plan of Action	Month & Date	Executor
Meeting within IQAC	June 7th, 2017	IQAC
Reframed Organizational Structure, Review of Academic and Research performance of various Schools & Centres, Other observations and findings by IQAC to be shared for measures to be taken – PPT presentation by IQAC	21 June 2017 / In consultation with Governing Body	IQAC & Vice Chancellor
Fine Tuning of Staff Information System (SIS) – Revised SIS - Circular	May – June 2017	IQAC & Registrar

One day Workshop on "NPTEL Awareness Programme for Student Ambassadors" by IQAC	June 2017	IQAC
Consolidation of Formats - ISO & IQAC; Meeting within IQAC	June 2017	IQAC
Risk Management Team- anticipating potential risk factors & preventive measures in Quality Management- to be documented	June 2017	Vice Chancellor / Registrar
Awareness camp on Road Safety & Measures for water conservation & management – Drivers of Metro Water Tanker Lorries in collaboration with Metro Water Board	July 2017	School of Mechanical
Planner for Conferences/workshops/guest lecturers for every school – Schedule with Guest Names to be submitted – To avoid redundancies in conference themes within the Schools	July 2017	Dean
Preparation and dispatch of AQAR report (2016 – 2017)	July 2017	IQAC
Schedule for 'Execution of Students feedback' – To be circulated by IQAC to all Deans/Heads	July 2017	IQAC
Industry – School Collaboration Centre / Lab to be initiated and it is mandatory for every School (Schools already having Centre / Lab are requested to strengthen it).	July 2017	Every School
PPT on Placement companies (including Core Companies) Vs Skills Required/Expected - by the Placement Head; Beneficiary – initially for placement coordinators of all Departments – then for Student Ambassadors. Measures taken based on Employer feedback	July 2017	Placement Head
Concept level test for new comers- 1st year UG/ PG students – To segregate advanced & slow learners – Question Paper, Schedule, Evaluation, Identifying the existing skill set of students. Follow up by the counsellors.	July 2017	Every Dean with Placement Head, School of Computing

Advisory Bureau for Higher Studies – PPT presentation on Higher Education Opportunities Abroad and Scholarships Offered, GRE, TOEFL Scores, website link, FAQs, etc to pre-final year class toppers	July 2017 and March 2018	Advisory Bureau for Higher Studies
Orientation program for 1st year UG/ PG student– Bridge courses for slow learners	August 2017	Each School/Dept
Library Facilities – PPT presentation by Chief librarian on books, e-books, NPTEL CDs, free access and login to National Digital Library, UGC links, etc to new comers	August 2017	Chief Librarian
Full fledged Intellectual Property Rights (IPR) Cell for guidance – copyrights, trademarks, patents, industrial design rights and trade secrets Providing office Assistants on Evaluation & filing, follow up for Publishing & Grant…. nominee from each school-Techno vision projects, incubator cell projects, i-club, individuals ideas etc At least 25 patent publication per year in the name of Sathyabama Institute At least 10 Industrial Design per year in the name of Sathyabama Institute At least 20 documents Copy Right per year in the name of Sathyabama Institute	August 2017	Director Research
Green Building initiatives using renewable energy (Solar Powered Buildings)	August 2017	School of EEE
Awareness camp on food wastage –Mess Halls - by School of Chemical & Bio (one week) – Schedule & Execution by School of Bio & Chemical	September 2017	School of Bio & Chemical
Meeting for schedule of academic audit within IQAC	September 2017	IQAC
Odd Sem – Special Class for Slow Learners - post CAE 1, post CAE 2, Model Practical Exam - Department wise Schedule & Execution - Use of Digital Class Rooms, online tutoring, etc., for special class - maintain the documents for students' progression.	November 2017	Each Dept HoD/Dean

Academic Audit with presentation by Dean of every School on their Academic and Research performance	October 2017	School of Computing and EEE
Academic Audit with presentation by Dean of every School on their Academic and Research performance	October 2017	School of Mechanical and Bio
Academic Audit with presentation by Dean of every School on their Academic and Research performance	October 2017	Building and Environment, Management Studies, S&H
Academic Audit with presentation by Dean of every School on their Academic and Research performance	October 2017	School of Dental Sciences
Research performance on journal publications in the core thrust areas of the centre, patents filed, published, – presentation by R & D Centres Heads	October 2017	R & D Centres
Pre-Audit & Post-Audit Team- to check for the distribution of higher order thinking questions and any other unique reforms- to be documented with evidence	October 2017	Internal Exam & COE office
Preparation of Academic audit evaluation report by IQAC; Submission of the report to the Governing Council by IQAC	November 2017	IQAC
Even Sem - Special Class for Slow Learners - post CAE 1, post CAE 2, Model Practical Exam - Department-wise Schedule & Execution - Use of Digital Class Rooms, online tutoring, etc., for special class - maintain the documents for students' progression.	April 2018	Each Dept
Submission of consolidated feedback response from Students, Alumni, Parents & Staff to IQAC	December 2017	Every Head/Dean
Meeting held within IQAC	January 2018	IQAC
Green, Energy & Sustainable Building Audit	Jan 2018	Dean of Environment and Architecture Head / EEE
Digital Display Board on Daily News & Events – Student Project Quote, Vocabulary for the Day, International Day Observance	Jan 2018	School of EEE, School of Science & Humanities
Societal Responsibility – Students Activity report on	All round the	Dean of Environment and

reasons & remedies on the man-made disasters (mis-happenings on road cave-in/ glass panel cracking / false Ceiling Falling)	year	Architecture
NSS Green measures – Swachh Bharat, organizing medical camps & measures for ground water revival in and around the University Campus- Annual Planner to be submitted	All round the year	NSS, School of Dental
Awareness rallies on social issues / Camps – Annual Planner to be submitted	All round the year	NCC
One day Guest Lecture for faculty on Quality measures, sustenance & enhancement	24th Jan 2018	IQAC
Formulation of Centralized Project Advisory Committee for scrutinizing and verifying research projects before submission.	January 2018	Vice Chancellor
Eminent Alumni Interaction with students – Series of expert talks to be organized – a minimum of four per annum for each School	Refer academic calendar	Alumni Cell Co-ordinators
Expansion of Language Lab, Maths Lab, NRI hostel and guest house- infrastructure development	March 2018	School of S & H
Interior designing of Hostel Mess and Recreation Halls- Activity for UG Hostel students	May 2018	Hostel Warden

2.16 Whether the AQAR was placed in statutory body Yes ✓   No -

Management ✓   Syndicate -   Any other body -

Provide the details of the action taken

> As per the Plan of Action (2016-17), following actions were taken:
> - Faculty / Student Exchange Programme with Global Universities have been initiated.
> - Staff Appreciation and awards for promoting research culture – Funded Projects, Peer Reviewed Publications with high Impact Factor and more Citation Index
> - Sewage Treatment plant is constructed and in operation.
> - Large fund has been sanctioned for the Faculty members to participate in International level Seminar/FDP/Workshop/Conference.

Criterion I

1. <u>Curricular Aspects</u>

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
Ph. D / M.Phil	5	-	5	-
PG	20	3	23	-
UG	18	4	22	-
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	22	-	22	22
Others	-	-	-	-
Total	**65**	**7**	**50**	**22**
Interdisciplinary	6	2	-	-
Innovative	6	1	-	-

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

    (ii) Pattern of programmes:

Pattern	Number of Programmes
Semester	64
Trimester	NIL
Annual	1

1.3 Feedback from stakeholders* Alumni ✔ Parents ✔ Employer ✔ Students ✔

Mode of feedback   : Online ✔ Manual ✔ Co-operating schools (for PEI) -

Refer Annexure 1.1 for analysis of Feedback

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

- School of Computing has introduced a new course "User Interface", "Internet of Things" and "Python Programming" to the pre final year students of 2015 batch. The teaching faculty has undergone a training given by "Infosys".
- School of Mechanical has revised the course "Thermal Engineering Lab" as "Thermal and Heat Transfer Lab.
- Credit transfer of NPTEL online courses, online certification courses and Student Abroad Program.
- Internship and Professional Training has been made mandatory in the pre final year for both UG and PG programmes.

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

Centre:

- Centre for III (Industry Institution Interaction)
  - School of Mechanical has set up an Industry Institution Interaction centre with Ashok Leyland.
  - School of Bio and Chemical has set up a "Medical Instrumentation Centre" with GE (General Electric) Health Care.
  - School of Medicine has set up a "Peripheral Health Centre" at Palavakkam to cater the needs of people in and around our adopted village.
  - School of Medicine also has set up a "Tobacco Cessation Clinic".
- Centre for DABE (Design and Analysis of Built Environment)
  - School of Building and Environment has set up a Design and Analysis of Built Environment.

Criterion II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
775	503	150	122	--

2.2 No. of permanent faculty with Ph.D.

239

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
49	**-**	**-**	**-**	**2**	**-**	**-**	**-**	**51**	**-**

2.4 No. of Guest and Visiting faculty and Temporary faculty

45	12	-

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	213	333	197
Presented papers	210	122	65
Resource Persons	68	43	43

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

The faculty members adopts enhanced teaching methodology for effective delivery of course content through

- NPTEL Video Lectures
- Computer aided teaching and learning materials has been prepared using ICT infrastructure.
- Conduct of Assignments, tutorials, Class room tests and Group discussions on Case studies.
- Conduct of Carrier Guidance and counseling activities as a part of regular timetable which help students to acquire potentials to mould them according to their future goals and ambitions.
- Research articles from journals

- To acquire additional knowledge, add on courses like C Programming, Spoken English, etc has been conducted.

- Establishing MoUS with industry and academia so as to conduct certification programmes like CCNA , Oracle , Cisco etc which helps the students to bridge the gap between the industry requirements and the concepts they obtained as a part of the core curriculum.

- To impart social responsibility in students NCC /NSS activities are conducted regularly.

- IT enabled education system

- Quiz / Online hunt

- Reverse Engineering

- Brown Bag

- Conduct Student Seminars

- Slide Presentations (through LCD / OHP), Audio-Visual Aids, Lecture Videos, Simulations, Charts

Apart from these classroom activities, students are also encouraged to visit R&D centres that are equipped with state-of-the-art high end equipments which enables the learners to acquire a practical knowledge, based on their curriculum aspects.

Extended classroom learning and innovative teaching methods like

- Field trips

- Industrial visits

- In-service training

- Working at the Industrial units provides an experience of actual working environment.

Few other conductive methods are adopted by the staff members in inducing higher order thinking skills among students by prompting them with question-answer session at the end of lecture hour.

Remedial classes are conducted for week students and slow learners outside the regular class hours or during the preparatory holidays. Weak students are also encouraged to meet the teachers in the department and to get counselling for their improvement.

The innovative methods help the students:

- In the practical application of subject knowledge

- Towards creating innovative ideas on the subject

- In depth analysis of the theoretical framework

2.7 Total No. of actual teaching days during this academic year   180 Days

2.8 Examination/ Evaluation Reforms initiated by the Institution

- Conduct of examinations during April/May for even semester and Nov/Dec for odd semester
- Tentative dates of examination dates are made available in the University Calendar.
- University examination dates are announced atleast a minimum of 50 days in advance.
- Question papers for all the courses (UG, PG and PhD) are obtained from external experts. Information about the question paper setters are kept confidential.
- Central Valuation System by external experts for all UG and PG courses.
- Provision for revaluation system.
- An Internal Examination Cell has been formed for conducting Internal Assessment Examinations. Every Semester CAE1 and CAE2 is conducted by the Internal Examination Cell.
- A novel model of answer booklet with digital number format.
- Provision of dummy numbers in the answer scripts.
- The Internal marks are announced to the students well in advance before the commencement of the end semester examination.
- Software is exclusively maintained by the Controller of Examination Office for handling all types of exam related process (like maintaining student information, subject and regulation details, university results, issue of transcripts, provisional certificates, degree certificates etc.,).
- For PhD, evaluation of thesis is done by Indian and Foreign Examiner.
- Examination results are declared within 15 days of the commencement of succeeding semester. University results are updated in the website immediately so that student as well as parent can get the result without any further delay. SMS and letters are also sent to the parents after the declaration of revaluation results.
- University has embarked on a pilot project to conduct this year's exam for students using iPad and stylus.

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

197	56	220

2.10 Average percentage of attendance of students | 97.5% |

2.11 Course/Programme wise distribution of pass percentage :

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
UG	3228	849	1664	46	--	79.27
PG	366	205	137	--	--	93.44
M. Phil	4	4	--	--	--	100
Ph. D	85	NA	NA	NA	NA	NA

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

- Awareness programs for GIAN, NPTEL online courses are conducted both for Staff Members and Students.
- Credit Transfer System for NPTEL online courses has been recommended for implementation.
- Our Staff Members are encouraged to act as Mentor for NPTEL online courses.
- IQAC recommended the Governing Body to appreciate the Toppers / Gold / Elite Category of NPTEL courses via fees waive off.
- Feedback from the stakeholders (students, alumni, industry experts and parents) are collected and appraised. Staff Members are intimated about their feedback for improvement.
- Internalization of the formats has been carried out by IQAC with regard to Audit, Innovative Teaching, skill matrix and feedback from the stakeholders.
- Academic Audit Scheduled and executed by the Deans of the respective Schools
- Conceptual level test is recommend to the Schools at the entry level to streamline the students
- Skill matrix is suggested to identify the potential of the students in their respective field of excellence based on the pre-set skills. Further, mentoring to be given to the betterment of their skills.
- Innovative Teaching methodology is emphasized and ensured among the teaching fraternity
- Remedial Measures were suggested for the slow learners as special classes during evening hours and preparatory holidays.

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	*Number of faculty benefitted*
Refresher courses	24
UGC – Faculty Improvement Programme	263
HRD Programmes	NIL
Orientation Programmes	60
Faculty Exchange Programme	19
Staff training conducted by the university	213
Staff training conducted by other institutions	174
Summer / Winter schools, Workshops, etc.	208
Others	NIL

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	53	-	12	-
Technical Staff	90	-	2	-

Criterion III

3. Research, Consultancy and Extension

a. Initiatives of the IQAC in Sensitizing / Promoting Research Climate in the institution

- Research centres are recommended to conduct Diploma Courses and training courses.
- Awards are given to Highly Cited and High Indexed publications of Staff Members.
- Recommended to have IPR (Intellectual Property Rights) Cell to improve the IPR Portfolio of our University.
- Appreciations are given to the Staff Members who are having Funded Projects.
- Workshops are arranged to the Staff Members in writing R&D Proposals. Resource Persons are invited from Central Universities.
- Full time Ph.D Scholars are recruited with the stipend of Rs. 15,000 per month for Engineering Graduates and Rs. 10,000 per month for Science Graduates.
- Students are involved in our Consultancy Projects.
- JRF students are provided with free Boarding and Lodging.
- Staff Members are encouraged to publish a research paper from the outcome of Final Year Students' Project.

3.1 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	7	48	22	163
Outlay (in Rs.)	1,50,57,500	2,93,83,940	9,75,81,266	12,24,03,369

3.2 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	9	15	10	55
Outlay (in Rs.)	1,36,70,262	18,71,000	49,04,800	1,01,71,838

3.3 Details on research publications

	International	National	Others
Peer Review Journals	763	120	-
Non-Peer Review Journals	54	58	-

e-Journals	97	-	-
Conference proceedings	75	41	-

3.4 Details on Impact factor of publications:

IF Range | 0 – 7.523 | Average CI Range | 1-67 | h-index | 47 | Nos. in SCOPUS | 6450

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

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	2017 – 2018	SERB-DST, LPSC, DST, UGC-DAE, VSSC, CVRDE, MoES, MoEF, NAM S & T, DBT, MHRD, DBT, DST-SERB-YSS, DST-SERB-ECR, DLJ, DRDO, ISRO Respond, HRDG, CSIR, WTI DST	9,75,81,266	45,59,421
Minor Projects	2017 – 2018	ISRO Respond, CRDE – DRDO, DST-WOS, NRDMS DST, NCSTC DST	49,04,800	3,20,93,367
Interdisciplinary Projects	2017 – 2018	--	--	--
Industry sponsored	2017- 2018	LOANSTER IGP	9 7,530	97,530
Projects sponsored by the University / College	2017 – 2018	Technovation, Technosummit	9,04,414	9,04,414
Students research projects	2017 – 2018	Innovative Club	5,46,000	5,46,000
Any other(Specify)	-	Student Development	13,40,000	13,40,000

		Cell Activity, Student's Excellence Awards		
Total	-	-	105,374,010	39,540,732

No. of books published i) With ISBN No. 25   Chapters in Edited Books 32

ii) Without ISBN No. 03

3.6 No. of University Departments receiving funds from (in Lakhs)

UGC-SAP -   CAS -   DST-FIST 25.0

DPE -   DBT Scheme/funds 7.0

3.7 For colleges

Autonomy -   CPE -   DBT Star Scheme -

INSPIRE -   CE -   Any Other (specify) -

3.8 Revenue generated through consultancy   Rs. 1, 30,58,090

3.9 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	6	6	5	--	NA
Sponsoring Agencies	INSA	CSIR, DBT, ISRO, DST-SERB, MoES, CSIR - HRDG	Sathyabama University	--	-

3.10 No. of faculty served as experts, chairpersons or resource persons   154

3.11 No. of collaborations   International 46   National 23   Any other 4

3.12 No. of linkages created during this year   65

3.13 Total budget for research for current year in lakhs :

From funding agency

1025.84 Lakhs

From Management of University/College

74.36 Lakhs

Total

1100.20 Lakhs

3.14 No. of patents received this year

Type of Patent		Number
National	Applied	80
	Granted	Nil
International	Applied	03
	Granted	Nil
Commercialised	Applied	Nil
	Granted	Nil

3.15 No. of research awards/ recognitions received by faculty and research fellows of the institute in the year

Total	International	National	State	University	Dist	College
26	06	06	4	10	0	0

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

158

582

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

85

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

JRF 67   SRF 16   Project Fellows 27   Any other 16

3.19 No. of students Participated in NSS events:

University level [300] State level [-]

National level [-] International level [-]

3.20 No. of students participated in NCC events: 150

University level [150] State level [05]

National level [03] International level [-]

3.21 No. of Awards won in NSS: 1

University level [-] State level [1]

National level [-] International level [-]

3.22 No. of Awards won in NCC: 12

University level [-] State level [3]

National level [2] International level [-]

3.23 No. of Extension activities organized

University forum [5] College forum [-]

NCC [10] NSS [6] Any other [-]

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

1. **International Yoga Day:**

   The United Nations has declared 21 Jun 2017 as the International Day of Yoga. As per the Honourable Prime Minister's directions, NCC cadets across the country have to participate in this event. As directed, Sathyabama University NCC Army Wing organized the Yoga Day program for Army Wing cadets, 50 cadets participated and benefited.

2. **Drug Abuse and Illicit Trafficking:** To create awareness against Drug Abuse and Illicit Trafficking, 50 NCC Air Wing cadets participated in Anti drug march and Awareness programme was conducted on Drug Abuse and Illicit Trafficking at Sathyabama University, on 26 Jun 2017.

3. **Coastal Cleaning:** To create awareness to the cleanliness and to show the social responsibilities of cadets, the NCC Air Wing in association with 1 (TN) Air Sqn NCC organized coastal cleaning program at Kovalam beach, on 30 Jul 2017.

4. **Tree Plantation:** On the eve of Independence Day our university NCC cadets planted 50 tree saplings around the university campus on 15 Aug 2017.

5. **Blood Donation:** In coordination with "Indian Red Cross Society", Tamil Nadu branch our university NCC Air Wing cadets donated blood on 23 Aug 2017. Cadets rendered a splendid social service of high order; this noble gesture was highly appreciated by Indian Red Cross Society.

6. **World Space Week:** We have celebrated WORLD SPACE WEEK on 05 & 06 Oct 2017. We gave Guard of Honour to Shri.K.A.Sengottayian, Honourable Minister for School Education, Sports and Youth Welfare and DR.P.Kunhikrishnan, Director, SDSC SHAR ISRO Sriharikota, 50 NCC Air wing cadets, school children and college students participated in World space week awareness programme at Sathyabama University.

7. **Dengue Seminar:** To create awareness against dengue, 50 Air wing, 50 Naval Wing, 50 Army wing, NCC cadets participated in dengue seminar and inspection programme conducted by Commanding Officer Lt. Col. Karumalai at Sathyabama University, 13 Oct 2017.

8. **Traffic Awareness and Fire Fighting**
   On the event social activities our university NCC cadets participated in our university campus on 23 Jan 2018.

9. **Dental awareness and Screening programme:** Dental awareness and Screening programme conducted at Sathyabama Dental College and Hospital for 500 NCC cadets in association with 1 (TN) Air Sqn NCC during the Annual Training camp Feb 2018.

10. **Swachh Bharath Campaign - Every Week:**
    National cleaning campaign under the title "SWACHH BHARATH CAMPAIGN" is being conducted in university campus to keep our environment clean. The NCC Air Wing cadets of Sathyabama University are more involved in the cleaning process every week.

Criterion IV

4. Infrastructure and Learning Resources

4.1   Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Laboratories	123	12		135
Hostel	10	-		10
Mess Hall	4	1	Funds from sponsoring trust	5
No. of important equipments purchased (≥ 10 lakhs) during the current year.	338	12		350
Value of the equipment purchased during the year (Rs. in Lakhs)	2255	900		3155

4.2   Computerization of administration and library

- The library has exclusive reading, reference sections in additions to the Digital Library with N-computing 120 systems. Dedicated 400 systems are allotted for Administration

4.3   Library services:

Particulars	Total	
	No.	Value
Text Books	355099	11,96,69,398.00
Reference Books	18588	
Print Journals	200	323300.00
e-Resources:		
IEEE Journals	200	7,82,171.60
IEEE Proceedings	3126	
Elsevier Journals	614	28,37,440.00
Springer Link Journals	1659	7,68,614.00
ASCE Journals	38	4,61,974.50
ASME Journals	29	3,58,280.00

ACM Digital Library	1148	5,91,309.00
CD & Video	2685	-
Back Volumes	2479	-
FREE ONLINE E-RESOURCES:		
E-JOURNALS	62591	-
E-DATABASES	65	-
E-BOOKS	695	-
E-LEARNING COURSES	156	-
E-THESIS	251	-
NPTEL (National Programme on Technology Enhanced Learning) video & web content – enables e-learning through online in the domains of engineering, technology, science and humanities		
Previous year question papers available from 2010 onwards		
News papers back issue available from 2007 onwards in print version		
Journals and back volumes back issues available from 2010 onwards in print version		

4.4 Technology up gradation

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart ments	Others
Existing	3000	27	--	--	--	--	--	--
Added	250	--	1	--	1	2	2	--
Total	3250	27	1	--	1	2	2	--

4.5 Computer, Internet access, training to teachers and students and any other

programme for technology up gradation

- Encouraging the staff members to attend FDP, NPTEL, GIAN, MOOC courses every semester based on their specialization.
- Staff members are encouraged to do projects by providing Seed Money.
- Training for effective browsing and searching for the benefit of the students.
- "How to do Literature Survey" for the research scholars and students.

4.6   Amount spent on maintenance in lakhs :

i) ICT   3.50 CRORES

ii) Campus Infrastructure and facilities   7.50 CRORES

iii) Equipments   11.00 CRORES

iv) Others   14.50 CRORES

                              Total   36.50 CRORES

Criterion V

5. Student Support and Progression

5.1   Contribution of IQAC in enhancing awareness about Student Support Services

- Visually Impaired and Acid Victim Students are given Free Admission.
- Girl Candidates admitted into PG Courses are given special fee waiver of Rs.10,000.
- Award of Scholarship for Academic Excellence – **Remibai Jeppiaar Scholarship** – http://files.sathyabama.ac.in/news/scholarship.pdf
- **Centre for Academic Partnership** – Student Exchange Program – Inbound Mobility and Outbound Mobility – http://www.sathyabama.ac.in/sitepagetwo.php?firstref=237
- Online submission of Students Grievances is available in our university via **Students' Grievances Redressal Cell (SGRC)** – http:// www.sathyabama.ac.in /sgrc.php
- To cater, to motivate and to provide a platform to showcase their individual talents thereby contributing to the society, our university has a full pledged **Student Development Cell** the comprises of 20 unique clubs – http:// www.sathyabama.ac.in /sitepagethree.php?mainref = 34
- **Placement Cell** is vibrant in conducting Career Development Programs, Value Added Skill Development Programs, Online Assessments, etc. – http:// www.sathyabama.ac.in/sitepagethree.php?mainref=0&firstref=36&secondref=0
- **Advisory Bureau for Higher Studies** is functioning to inculcate the habit of delightful reading among the intermittent readers and also to satisfy the thirst of voracious readers in the campus besides continuously guiding students in various fronts of their development -
  http://www.sathyabama.ac.in/sitepagethree.php?mainref=0&firstref=127&second ref=0
- "Respect your Seniors! Help your Juniors!!" – For the healthy and congenial academic environment for the students, **Anti Ragging Cell (ARC)** is functioning in our university – http:// www.sathyabama.ac.in /arc/index.html
- SC/ST Cell

- Our University has constituted the **Anti-Discrimination Cell (ADC)** to look after the related matters (if any) of depriving a student / staff or group of students on the basis of caste, creed, language, ethnicity, gender, different ability.
- **Students Welfare Schemes** like sponsorship for Students Projects, sponsorship for International and National Conferences at home and abroad, works shops, Meets, Symposiums etc are always given to the students. Apart from these the University also provides needy students with study and sports material, payment of examination, tuition fees and organizes medical aid to students scholarship for sports students, scholarship for meritorious students and financial assistance for in house projects.
- **Health centre, health insurance etc. –** Our university has state of art gymnasium for girls and boys separately which can be utilized for free of cost. Yoga classes are conducted regularly. In house medical facility is available for 24 hours inside the university campus. All the students of the university are covered under accidental insurance for a maximum of rupees one lakh.
- Techno Vation Projects – Best three final year projects from each school will be selected and awarded.

5.2 Efforts made by the institution for tracking the progression

- Conducting Diagnostic test for the first year engineering students to categorizing them according to their academic strength.

- Student information system gives the instantaneous access to all the academic details, performance in examination and demographic information.

- Placement Training for 1st year (II Sem) students are conducted every year to make them ready for facing the campus interviews.

- Through various club activities we are giving good platform to expose their talents & service to Socirty.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
12779	796	750	06

(b) No. of students outside the state

7876

(c) No. of international students [7]

	No	%			No	%
Men	9741	68		Women	4584	32

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
10911	50	440	2377	-	13778	7048	430	52	6733	62	14325

Demand Ratio: PG - 1:1, Engg.: - 1:75, Arch.-1:1 Arts- 1:5   Dropout : 0.002%

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

- GRE, TOEFL and IELTS coaching is provided to the students by Score getter, India – every academic year

List of seminars conducted during the academic year 2017 – 2018:

Sl. No	Course / Seminar	Duration	Duration	Fees	Resource Person
1	Higher Education Counselling	17.03.2017	11 a.m. to 3 p.m.	Nil	IDP, Chennai
2	GATE 2018	10.07.2017	10 a.m. to 12 p.m.	Nil	T.I.M.E, Chennai
3	GRE / TOEFL / IELTS	11.07.2017	10 a.m. to 11.30 a.m.	Nil	Score Getter, Chennai
4	CAT	11.07.2017	11.45 a.m. to 12.30 p.m.	Nil	T.I.M.E, Chennai
5	Higher Education Counselling	30.08.2017	10 a.m. to 3 p.m.	Nil	IDP, Chennai
6	Higher Education Counselling	26.03.2018	10 a.m. to 3 p.m.	Nil	IDP, Chennai

Sl. No.	Date	Branches	Trainer	Module
1	17.03.2017	All Branches	Mr. Rajesh	For 3rd and 4th year.

2	10.07.2017	All Branches	Mr. Mark North	For 3rd year
3	11.07.2017	All Branches	Mr. Atiq Aziz	For 3rd year
4	11.07.2017	All Branches	Mr. Arvind Kumar	For 3rd year
5	30.08.2017	All Branches	Mr. Rajesh	For 3rd and 4th year.
6	26.03.2018	All Branches	Mr. Rajaram	For 3rd and 4th year.

No. of students beneficiaries   About 800

5.5 No. of students qualified in these examinations

NET   --   SET/SLET   --   GATE   --   CAT   --   GMAT   --

IAS/IPS etc   --   State PSC   --   UPSC   --   Others   GRE 74; TOEFL 21; IELTS 187

5.6 Details of student counselling and career guidance

- Career guidance and student counselling is done during seminars and higher studies abroad education fair held every year in the campus.
- A career guidance cell or placement cell is very active in catering to the career needs of the students apart from the Advisory Bureau of Higher studies, which consistently conducts programs related to higher education opportunities and career advancements.
- Industry Interaction Cell is created to bridge the gap between academia and industry by doing various collaborations such as industry projects, Internships etc.,
- Placement cell in association with IQAC has created awareness among the students about core company recruitment. As a result the number of students placed in core companies has been increased.

No. of students benefitted   200

5.7   Details of campus placement

On Campus			Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
245	1324	1036	38

5.8   Details of gender sensitization programmes

Following programs were conducted through Women Empowerment Bureau for the welfare of women and in neutralizing the gender sensitivity in the campus.

Capacity Building Training Programme, Yoga, Learn to Earn Programme (Karpom Velvom), Self Defence Workshop Women's Awareness (First Information Report) FIR

5.9   Students Activities

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

State/ University level [54]   National level [4]   International level [--]

No. of students participated in cultural events

State/ University level [150]   National level [60]   International level [--]

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

Sports: State/ University level [12]   National level [02]   International level [--]

Cultural: State/ University level [10]   National level [04]   International level [--]

5.10   Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	1198	13.42 Crores
Financial support from government	685	4.25920 Lakhs
Financial support from other sources	186	198 Lakhs
Number of students who received International/ National recognitions	37	7Lakhs

5.11 Student organised / initiatives

Fairs: State/ University level | √ | National level | √ | International level | -- |

Exhibition: State/ University level | √ | National level | √ | International level | -- |

5.12 No. of social initiatives undertaken by the students | 25 |

5.13 Major grievances of students (if any) redressed:

> The university has a very effective and transparent grievance redressal system (both manual and web based) where students are free to present their grievances. The University' Grievances Redressal Cell comprises of Vice Chancellor, Registrar, Deans, Heads of various Departments and Senior Faculty Members. The grievances of the students are received and addressed immediately by taking up necessary action. The number of the grievances addressed in the last year is roughly around 50.

Criterion VI

6. Governance, Leadership and Management

6.1   State the Vision and Mission of the institution

Vision:

We envision an effective and competent source of dynamic intellectual and technical manpower for the current and future industrial requirements and serving community at large.

Mission:

Educate, mould and bring out international calibre students with finest employability skills that best fit with industrial high-tech requirements by introducing, imparting new innovative courses and collaborating with national, international institutions, research and developmental organizations.

6.2   Does the Institution has a management Information System | Yes. |

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

6.3.1   Curriculum Development

Scholastic chamber meeting is being conducted periodically to upgrade curriculum design (input given by the faculty, students and experts from industry and academics) according to the high-tech requirements of Industries. Mid Semester examinations, assignments and student workshops are being conducted periodically through which excellence of students in regular curriculum is accomplished. Industrial internships and placement training are given special credit in their regular curriculum. Students winning laurels to institution in different specialized, co curricular and extracurricular rivalries at national and worldwide levels becomes an indication of the witness to the student's quality accomplishment that crosses over any barrier between campuses to corporate. Best academic practices are routinely incorporated in educational programs conveyance.

6.3.2 Teaching and Learning

Enhanced teaching guides are invested in classrooms that encourage staff members to impart students with high technical knowledge according to the requirements of ventures. Assignments and retests are conducted to encourage, motivate and enhance the student's performance in assessment examinations. Students are encouraged to do projects in their respective core industry so they can get roused and interested by their respective subjects.

6.3.3 Examination and Evaluation

Centralised Internal Exam Cell is functioning in the institution to achieve uniform and fair evaluation of student's academic performance without bias. For each subject a subject coordinator is allotted, normally a senior faculty member who provides suggestions and scheme of subject teaching methodology to all the faculties handling respective subject in respective semester.

6.3.4 Research and Development

The "International Research Centre (IRC)" and "Col. Dr. Jeppiaar Research Park" are the platforms that enhance the institution in meeting the global competence in terms of infrastructure and research activities among the students and staff members that make them to reach and fulfil the high-tech requirements of industries. The two research centres serve up as the knowledge, intellectual and experimental forum for the academicians and researchers to have a successful future.

6.3.5 Library, ICT and physical infrastructure / instrumentation

Smart class rooms with white writing board, multimedia projector, public address system and display unit are used apart from regular class room to make the knowledge transfer effective among the students. More computers are installed in the digital library that facilitates all students and staff members to exploit in their area of academic and research. Wi-Fi connectivity is made accessible across many places inside the campus; broadband internet and intranet connectivity; intercoms and landlines provided in the campus have made the communication system more effective.

6.3.6 Human Resource Management

The Institute appoints qualified staff through the methodology of open advertisement and interview by inward master committee.

The Institute organizes various orientation and enhancement programs for both teaching and non-teaching staff members for updating their aptitudes in the most recent innovation.

A scientific system of feedback is maintained for efficiency and quick response.

Welfare Schemes for faculty, Technical and Non-Technical staff.

Group insurance for faculty, Technical and Nontechnical Staff and Students

Incentives for research publications and sponsored research.

Deputation of Staff for FDP / Workshops / Training / Conferences / Symposium

On duty is provided for pursuing higher studies, attending enrichment courses/seminars/conferences and workshops.

Systematic performance appraisal process

Travel grant for attending conference/workshop/seminar.

The faculty and staff members are entitled to avail summer and winter vacations, casual leave.

6.3.7 Faculty and Staff recruitment

Advertisements in major news papers (English and local language) are published for recruitment of staff members. Merit based selection is being followed always for employing new faculties in the institution.

6.3.8 Industry Interaction / Collaboration

Institution always paves way for stakeholders to have more interaction and collaboration with all kinds of Industries making them to meet the high-tech requirements in the outside corporate world. MOUs, Guest lectures, Power Series Lectures, Seminars and Symposiums are the activities that make industrial interaction more effective.

6.3.9 Admission of Students

❖ Every year admission of students is carried on by conducting Sathyabama All India Entrance Examination at all India level. Physically Challenged students, Visually Challenged students, Differently-abled students, Acid victim students, students of Disadvantaged Sections of Society and Below Poverty Line, son/ Daughter of Army officers are all admitted through scholarships are provided to them with free seat, free hostel, food and other facilities.

6.4 Welfare Schemes for

Teaching / Non Teaching	• Financial assistance to attend national and international conference / Seminars / workshops is being provided to students.
	• Staff member's children who scores highest percentage in X and XII board exams are appreciated with a cash award of Rs.10, 000.
	• Waiver of 50% on tuition fee for the staff member's children who has served the institution for more than 10 yrs.
	• A sum of Rs.1,00,000 offered to staff member's family, in case of sudden demise of the staff member.
	• A full time "Mother Theresa Day Care Centre" is arranged inside the campus, to take care of the staff members' children.
	• Summer camps & science exhibitions are being conducted every year for staff members' children.

	• During the motherhood period, 3 months maternity leave with salary is being sanctioned and offered to respective ladies staff members.
Students	• 10% - 30% waiver on tuition fee is offered to top 3 rank holders in university examinations from each batch in every department. • Free medical check-up / treatment are being done to students. • Financial assistance to attend national and international conference / Seminars / Workshops is being provided to students. • Top 25 rank holder students are given full tuition fee waiver in entrance examination

6.5   Total corpus fund generated   Rs. 7.5 Crores

6.6   Whether annual financial audit has been done   Yes   No

√   -

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	-	-	Yes	Academic Council
Administrative	-	-	Yes	Board of Management

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

For UG Programmes   Yes   √   No   -

For PG Programmes   Yes   √   No   -

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

• Setting of Question paper and valuation are done by external experts
• Introduction of referral valuation

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

> Not Applicable

6.11 Activities and support from the Alumni Association

- Every year alumni meeting are being conducted in institution.
- Alumni association extends its support through various activities that facilitate students to watch out the latest demand of corporate world and also guidelines are being suggested by alumni to the current students periodically to cope up with outer world trends.
- Particularly Placement cell conducts various activities among which they invite alumni periodically to give guest lectures and conduct mock interview for students. This facilitates the students to know and learn the customs of meeting the industries expectations and to elevate their career growth as well.

6.12 Activities and support from the Parent – Teacher Association

- Online secured portal for parents is made available, where Parent Login is provided to know their son/ daughter's progress in academics.
- SMS facility is made available to convey students' class attendance, Internal and University Exam Results, Holidays information to the parents.
- Parent Teacher Meeting especially for 3 & above arrear students is being conducted regularly. During meeting parents and student's respective counsellors meet and discuss the student's progress level that facilitates parent's to know their children's performance apparently.
- The suggestions that are specified by the parents are forwarded to the management and further course of action is taken to enhance the student's performance.

6.13 Development programmes for support staff

Faculty development programmes and specialized training courses are being conducted periodically to both teaching and non teaching staff members for their self-development regularly. Also they are motivated to upgrade their educational level through encouragement to take up online courses and pursue part time courses offered by the institution.

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

- Water harvesting is done in different parts of the institution and sent to a large tank, where it undergoes reverse osmosis process of water purification and is used for laboratory usage.
- Sewage Treatment Plant is implemented inside the campus (for 1.5 Lakhs of STP treated water every day and used for Gardening Purpose).
- Our University has a dedicated centre for waste management, which develops novel techniques to manage and dispose waste effectively. Bio gas plant is set up to productively to recycle the organic waste matter
- E wastes like computers and its accessories, electrical cables are dispersed through buy back schemes.
- Only the University buses are allowed inside the campus, which is the only mass transit system.
- Each School is involved in Terrace Gardening.
- Battery Car is operated inside the campus to facilitate commuting inside the campus.

Criterion VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

- "Earn while you Learn" scheme has been launched by the institution that has created a positive impact on students.
- All the mess workers reach us to serve food with an apron printed- "Don't waste food" which has reduced the wastage of food in recent days.
- 'Payment Gateway' has been introduced to the students to pay their course and hostel fees online.

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

- Introduction of new programmes in regard to Law, Psychology and other PG programmes is under process.
- Bar Council of India visited the institution for the approval process of the law department.
- Undergoing process on refining all the classrooms and teaching methods in School of Business Administration in order to enhance the status of school of Business Administration.
- Upgrading University Quality Management Standards ISO 9001:2008 to ISO 9001:2015.
- More research collaborations with internationally renowned universities are being done more frequently to facilitate the students and staff to enhance their research work.
- Undergoing process to achieve QS-International Ranking.

7.3   Give two Best Practices of the institution

- Online Student Information system and Attendance Tracking system
- TECHNOVATION – The best Project Selection
- Lab-Stock entry, hostel – online entry, auditorium booking system

7.4   Contribution to environmental awareness / protection

- Eco club which is a part of Student Development Cell is doing various activities toward environmental awareness / protection.
- NSS/NCC has undergone many activities such as Drug Abuse, Illicit Trafficking, Coastal Cleaning, Tree Plantation and Dengue Seminar to create awareness and to show the social responsibilities of cadets to serve social community at large.
- TransCar facility is made accessible within the campus that creates environmental awareness among the students.
- More number of trees have been planted and being taken care by NSS/CDC/SDC students.

7.5   Whether environmental audit was conducted?   Yes   ✓   No   -

7.6   Any other relevant information the institution wishes to add.

1. Highly motivated and committed faculty members with young talented students; this team made our Founder Chancellors' dream "Sathyabama Nanosat" to come true and it has been launched successfully with the support of prestigious R&D agency ISRO, Government of India.
2. Huge resources for research; more than ten R&D centres with the state-of the art facility within the campus, Funding from major Government agencies.
3. Students are trained to excel in academics, R&D, co-curricular, extracurricular, placement and societal activities.
4. A lot of opportunity to do research in energy, rocket science, drug, nano, etc.
5. Increasing students' strength.
6. To achieve 100% placement in all the branches of study.

8. Plans of institution for the next year

> ➤ Introducing new Schools under Arts with various streams and Law as per the approval of BCI.
>
> ➤ Upgrading University Quality Management Standards ISO 9001:2008 to ISO 9001:2015
>
> ➤ More research collaborations with internationally renowned Universities are being done.
>
> ➤ To increase the ambience for entrepreneurship by establishing Centres of Excellence in collaboration with leading corporate.
>
> ➤ To prepare for NBA accreditation process.
>
> ➤ QC member for each department to augment IQAC activities to focus on all criteria emphasised by regulations.
>
> ➤ Q team member assigned for NIRF, NAAC, and NBA regulations.
>
> ➤ Execution of External academic audit has been planned.
>
> ➤ Recent initiatives
>
> > ▪ The entire technical course Curriculum is revised in the light of Industrial Version 4.0.
> >
> > ▪ Designing course outcome for each subject.
> >
> > ▪ Question paper setting based on Blooms Taxonomy and Course Outcomes.
>
> The above mentioned initiatives will be fully established in the course of this year and necessary course corrections will be made to strengthen the curriculum and research activities of the campus.
>
> > ➤ For each School, School Research Committee comprising of 3 members will be assigned to facilitate the faculties undergoing research activities.
> >
> > ➤ Department Engagement Card to assess the engagement level of both students and staffs is being designed and will be executed in the course of this year.
> >
> > ➤ Automation of IQAC activities is being planned to facilitate the documentation of all activities being done in the institution.
>
> All the above mentioned initiatives are being streamlined and standardized in the academic year (2018-19).

Name: (Dr. R. Subhashini)   *Name: (Dr. S. Sundar Manoharan)*

Annexure 1.1

Feedback Analysis

Website Links for the Feedback forms:

• http://www.sathyabama.ac.in/documents/IQAR/Alumni_Feedback_Form.pdf

• http://www.sathyabama.ac.in/documents/IQAR/Parent_Feedback_Form.pdf

• http://www.sathyabama.ac.in/documents/IQAR/Students_Feedback_Form.pdf

Aluminis' Feedback:

• Students can be trained on niche technologies to place them in high package companies.

• More alumni interaction program will help the students to be aware of Industrial happenings.

Employers' Feedback:

• Practical Applications of the concepts and dedicated practical sessions in emerging technologies are vital

• Skill based certification and relevant training for placement to be mandated atleast 2 semesters before the Campus Recruitment.

• Students should have strong fundamental knowledge in their core subjects.

Mechanisms to collect Students' Feedback:

• Format for Feedback from the students is enclosed.

• A schedule has been prepared by IQAC and it has been executed by the IQAC Internal Members.

• Students from various categories such as Average, Below Average and Above Average students are called for feedback from each Department.

• Feedback forms are scanned and analyzed using SPSS Software.

Analysis of Students' Feedback:

• Every Staff Member will be graded by the student based on eleven criteria.

• For each staff member, the grades of eleven criteria will be averaged.

• Based on the grade, the staff members are categorized as below 1, between 1 – 2, between 2 – 3, between 3 – 4, list will be prepared, submitted to Governing Body

for further action **(4 – Very Good, 3 – Good, 2 – Satisfactory, 1 – Needs Improvement)**

STUDENT FEEDBACK

SAMPLE ANALYSIS - ONE STAFF MEMBER

Student	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Average
S1	3	4	3	4	3	4	3	3	3	4	3	3.36
S2	4	4	3	4	4	3	4	4	3	4	4	3.73
S3	3	2	3	2	3	2	4	3	2	3	3	2.73
S4	3	3	4	3	3	4	3	3	2	3	4	3.18
S5	3	3	4	3	3	4	3	3	4	3	2	3.18
S6	3	3	4	3	4	3	3	2	3	3	4	3.18
S7	4	3	4	3	4	3	3	4	3	4	3	3.45
S8	3	4	3	3	4	3	3	4	3	2	3	3.18
S9	3	4	3	3	4	3	3	4	3	4	3	3.36
S10	4	4	3	4	4	3	4	2	4	3	4	3.55
												3.29
	3.3	3.4	3.4	3.2	3.6	3.2	3.3	3.2	3	3.3	3.3	3.29

- o **S1, S2, … → Students**
- o **Q1, Q2, … → Questions in the Format**

Feedback Format

SATHYABAMA UNIVERSITY
IQAC - STUDENT FEEDBACK FORM
NOTE: Just shade the appropriate boxes with pencil
(This is an OMR sheet: Will be electronically processed, quickly and accurately)

Sheet number

PROGRAM MODE: FULL TIME ☐   PART TIME ☐

PROGRAM:

| B.E/B.TECH 1 ☐ | M.E/M.Tech/M.Sc/M.Arch/M.A/M.Phil 2 ☐ | B.Arch 3 ☐ | MBA 4 ☐ | B.Com/B.Sc 5 ☐ | BDS 6 ☐ |

SEMESTER: 1 ☐   2 ☐   3 ☐   4 ☐   5 ☐   6 ☐   7 ☐   8 ☐   9 ☐   10 ☐

SECTION :   A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

UG BRANCHES

ARCH ☐	Chemical ☐	E&I ☐
Aero ☐	Civil ☐	IT ☐
Auto ☐	CSE ☐	Mech ☐ / M&P ☐
Bioinfo ☐	ECE ☐	Viscom ☐
Biomed ☐	EEE ☐	B.com ☐ / OTHERS ☐
Biotech ☐	ETCE ☐	

PG BRANCHES

Applied electronics ☐	Embedded ☐	Maths ☐
Biotech ☐	E&C ☐	Medinstru ☐
Bioinfo ☐	Environmental ☐	NanoTech ☐ / Physics ☐
CAD ☐	Embedded ☐	Power electronics ☐
Chemistry ☐	English ☐	Structural ☐
CSE ☐	MBA ☐	VLSI Design ☐ / OTHERS ☐

Facilites	VERYGOOD	GOOD	SATISFACTORY	NEEDS IMPROVEMENT
Class room environment	☐	☐	☐	☐
Lab Facilities	☐	☐	☐	☐
Library Facility	☐	☐	☐	☐
Computing Facility	☐	☐	☐	☐
Transport facility	☐	☐	☐	☐
Campus Cleanliness	☐	☐	☐	☐
Mess Facility	☐	☐	☐	☐
Response of administrative staff to general queries	☐	☐	☐	☐

* Note: 4-VERYGOOD   3-GOOD   2-SATISFACTORY   1-NEEDS IMPROVEMENT

A. Academic	Subject -1	Subject 2	Subject 3	Subject 4	Subject 5	Subject 6	Subject 7
Communication skill of the teacher	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Quality standard of your Course Curriculum and the syllabus	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Knowledge level of teachers in delivery of course	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Effectiveness of your teachers in delivery of course	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Interest shown by teachers towards students	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Does the teacher pay attention to Acddemically weak students	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Helpfulness of teachers to clarify your doubts-in & out of class	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Standard of Assignment -does it make you refer books & journal	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Effectiveness of your practical classes	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Encouragement given to seminars, projects, conferences	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Teacher was unbiased in evaluation process	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4

B. Campus placement	VERYGOOD	GOOD	SATISFACTORY	NEEDS IMPROVEMENT
Level of training for Aptitude Test	☐	☐	☐	☐
Level of training for soft skill development	☐	☐	☐	☐
Number of Companies visiting	☐	☐	☐	☐
Placement cell coordination with students	☐	☐	☐	☐

C. General	VERYGOOD	GOOD	SATISFACTORY	NEEDS IMPROVEMENT
Ragging control	☐	☐	☐	☐
General discipline	☐	☐	☐	☐
Gym/ Sports /other facilities	☐	☐	☐	☐

SUGGESTION FOR IMPROVEMENT :