Yearly Status Report - 2016-2017

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. K. V. Narayanan**
Designation	**Vice Chancellor**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**04424503243**
Mobile no.	**9444238423**
Registered Email	**registrar@sathyabama.ac.in**
Alternate Email	**vc@sathyabama.ac.in**
Address	**Jeppiaar Nagar, Rajiv Gandhi Salai, Sholinganallur,**
City/Town	**Chennai**
State/UT	**Tamil Nadu**
Pincode	**600119**

2. Institutional Status

University	**Deemed**
Type of Institution	**Co-education**
Location	**Urban**
Financial Status	**private**
Name of the IQAC co-ordinator/Director	**Dr. S. Sundareswari**
Phone no/Alternate Phone no.	**04424503153**
Mobile no.	**9840477004**
Registered Email	**iqac@sathyabama.ac.in**
Alternate Email	**sundare65@gmail.com**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://www.sathyabama.ac.in/academics/iqac/aqar

4. Whether Academic Calendar prepared during the year

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://www.sathyabama.ac.in/academics/iqac/calendar

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
2	**B**	**2.50**	**2015**	**14-Sep-2015**	**13-Sep-2020**

6. Date of Establishment of IQAC

6. Date of Establishment of IQAC	**03-Jul-2007**

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
No Data Entered/Not Applicable!!!		

8. 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 Biotechnology	FIST	DST	2015 1825	8000000
Department of Computer Science	FIST	DST	2014 1825	2200000
Department of Physics	FIST	DST	2015 1825	7800000
Centre of Excellence for energy Research	FAST	MHRD	2014 2190	40000000
No Files Uploaded !!!				

9. Whether composition of IQAC as per latest NAAC guidelines:	**Yes**
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	**4**
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	**Yes**
Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	**No**

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

1. Placement Cell was directed to conduct Aptitude and Soft Skill training from the first year onwards. Diagnostic tests were conducted to identify the aptitude levels of the students and further training interventions were performed based on the skill levels of the students. This has enhanced the placement percentage of the institution and has attracted many core companies, IT and ITes sectors for the recruitment.

2. Orientation programmes towards Outcome Based Education were conducted periodically to the faculty members to familiarise them with OBE process. IQAC ensures that the OBE was practiced in all the departments and supported the individual programs in devising the complete process of Course Outcome attainment

and Program Outcome attainment.

3. To motivate the faculty towards quality research and development, awards and appreciations were given to the faculty members who have made high impact publications and highest citations.

4. The Central Library was fully automated and has provided the platform for the students and faculty to access the resources remotely.

5. To enhance the societal research, Research Field Station were established in Muttom and Rameshwaram to study the ecosystem conservation, climate change and underwater ecosystem.

No Files Uploaded !!!

13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
No Data Entered/Not Applicable!!!	
[View File](#)	

14. Whether AQAR was placed before statutory body ?	**Yes**

Name of Statutory Body	Meeting Date
Board of Management	**15-Jul-2017**

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	**Yes**
Date of Visit	**25-Aug-2016**
16. Whether institutional data submitted to AISHE:	**Yes**
Year of Submission	**2017**
Date of Submission	**11-Apr-2017**
17. Does the Institution have Management Information System ?	**Yes**
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	**The institution has a seamless, well integrated Management System with comprehensive integrated modules for**

both academics and administrative functions of the Institution. The modules of the Management Information System include the following. • Student Management System • Staff Management System • Admission Management • Online Fee Payments • Administration Management System • Library Management System • Learning Management System • Examination Management • Placement The solution has been built keeping in mind the requirements from the various departments. Regular feedback on the functionality of the Institution's Management Information System is sought from various stakeholders and periodical updates and upgrades are made to the system.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
No Data Entered/Not Applicable !!!			
View File			

1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
No Data Entered/Not Applicable !!!				
View File				

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		
View File		

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the University level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
Mtech	VLSI DESIGN	15/06/2016
ME	EMBEDDED SYSTEMS	15/06/2016
ME	APPLIED ELECTRONICS	15/06/2016
BE	ELECTRONICS AND COMMUNICATION ENGINEERING	15/06/2016

BE	ELECTRONICS AND TELECOMMUNICATION ENGINEERING	15/06/2016
BE	ELECTRICAL AND ELECTRONICS ENGINEERING	15/06/2016
BE	ELECTRONICS AND INSTRUMENTATION ENGINEERING	15/06/2016
ME	EMBEDDED SYSTEMS	15/06/2016
ME	APPLIED ELECTRONICS	15/06/2016
MSc	PHYSICS(Nano Materials And Application)	15/06/2016
MSc	PHYSICS(Renewable Energy Sources)	15/06/2016
BE	Mechanical Engineering	15/06/2016
BE	Mechanical Engineering	15/06/2016
MSc	Chemistry	15/06/2016
BE	Mechanical & Production Engineering	15/06/2016
BE	Mechanical & Production Engineering	15/06/2016
BE	Civil Engineering	15/06/2016
ME	Structural Engineering	15/06/2016
BE	Civil Engineering	15/06/2016
BTech	Information Technology	15/06/2016
BE	ECE, EEE, Mechanical , MechPro,	15/06/2016
BTech	Bio Technology, Bio Med, Bio info	15/06/2016
BE	CSE	15/06/2016
BE	IT,	15/06/2016
BE	Automobile Engineering	15/06/2016
BArch	Architectural Conservation SARX 1026	15/06/2016
BArch	Landscape Architecture SARX 1024	15/06/2016
BArch	Facilities Management SARX 1021	15/06/2016
BArch	Introduction to GIS and Remote sensing SARX 1022	15/06/2016
BArch	Urban and regional planning SAR 1023	15/06/2016
BArch	Architectural Journalism SARX 1030	15/06/2016
BArch	Contemporary process in Architecture SARX 1032	15/06/2016

BArch	Construction Management SARX 1027	15/06/2016
BArch	Advanced Construction Techniques SARX 1028	15/06/2016
BArch	Environment and Behaviour SARX 1019	15/06/2016
BArch	Sustainable Architecture SARX 1020	15/06/2016
BArch	Design for Disaster Management SARX 1029	15/06/2016
MArch	Real Estate management SAR 5608	15/06/2016
MArch	Research methodologies in Architecture SAR 5610	15/06/2016
MArch	Quantitative Techniques SMT 5101	15/06/2016
MArch	Green Building Rating Systems SAR 5622	15/06/2016
MArch	Design Innovations in Sustainable Architecture SAR5620	15/06/2016
MArch	Responsible community action SAR5625	15/06/2016

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
No Data Entered/Not Applicable !!!		
View File		

1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
No Data Entered/Not Applicable !!!		
View File		

1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
Feedback on Teaching and Curriculum: Every semester structured feedback is

collected from all stake holders on teaching and curriculum. Suitable changes are implemented based on the approval from academic council after numerous discussions and analysis. This year In order to enhance link between the industry and the Institution, Internships and Industrial Visits are included as part of all the Programmes. Every student is required to undergo Industrial Visits during every semester of the Programme. The students have to undergo Internship in an industry for a minimum period of 3 weeks and at the end of second year, during their semester holidays they undergo a Professional Training for a minimum period of 2 weeks. Students are exposed to opportunities that develop their overall personality. Students are also provided opportunity to pursue internship at International Institutions. Feedback on Research – Based on the deliberations with our collaborators and with a strong research base our Institution has launched the first successful Student Satellite SATHYABAMASAT designed and developed by Staff and Students in association with Indian Space Research Organization, Government of India. This Nano Satellite was launched on June 22nd 2016 to monitor the presence of greenhouse gases in the Atmosphere. Feedback on facilities - Latest books, journal subscriptions, technical magazines are added to the library resources. E-books, E-journals are subscribed for the Library.Books required for preparation of Civil Services Examinations was purchased to facilitate a learning environment for civil aspirants as a result of the feedback given by one of our Alumni who is a civil servant. Based on the feedback received from parents and students, additional Smart classrooms are constructed to cater to the increasing need for ICT enabled teaching and learning. Feedback from Alumni- Our Alumni will always be an important source of input for initiating changes to improve quality. Alumni provide feedback during the alumni meets or during their visits to the organization. This year Joint academic programmes were initiated, MoUs were signed with organisations Industry oriented courses were introduced based on the positive feedback received from our alumni. The alumni feedback is processed in the department and noteworthy changes to be made are presented in the board of studies meeting. The changes are incorporated after the approval.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
No Data Entered/Not Applicable !!!				
View File				

2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2016	3421	450	449	303	752

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using	ICT Tools and resources	Number of ICT enabled	Numberof smart classrooms	E-resources and techniques used

	ICT (LMS, e-Resources)	available	Classrooms		
752	450	25	12	6	6

No file uploaded.

No file uploaded.

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

For every 20 students a faculty is appointed as a mentor. The mentors meet his/her students every fortnight and discuss the issues related to them. The mentor maintains the academic record of the students and keeps track of the attendance and overall progress of the students. The information is reported to Head of the department once in a month, along with necessary measures taken. The mentor counsels the students with respect to academic and personal issues. A comprehensive record of academic performance, Co-curricular, Extra Curricular activities and the details of parent interactionare maintained. Efficacy of the system • The comprehensive record of mentees has been effective in the analysis of student performance. The mentees' records are maintained using a mentoring card. • The close monitoring of students' progress helps in improving the academic performance • Any deviation in behavioral and academic aspects of a student will be provided as a feedback to the parent Apart from the mentors, there is a student supporting system in place for assisting the student at various levels. Students shall reach out through email for any queries or assistance to the different supporting systems, like:Student Help Desk, Internal Examination Cell, Student Development Cell, Student Grievance Cell, Student counseling and psychological centre, Anti ragging Cell, Placement Cell, Women Empowerment Cell, Anti-Discrimination Cell, Centre for Skill Development. Students who maintain 100 attendance during their course of study are encouraged with the "100 attendance award" and Students based on curricular, co-curricular, extracurricular activities are given with "outgoing student excellence award" every year with the cash prize of Rs.10,000 each. "Dr. Jeppiaar Remibai Scholarship award" is given to meritorious students who excel in academics. Top three rank holders receive 30, 20 and 10 fee waive in the consecutive academic year.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
12582	752	1:17

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
752	741	11	11	303

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
No Data Entered/Not Applicable !!!			
View File			

2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
No Data Entered/Not Applicable !!!				
View File				

2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
200	13567	1.47

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

https://www.sathyabama.ac.in/academics/schools

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
No Data Entered/Not Applicable !!!					
View File					

2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

https://www.sathyabama.ac.in/academics/iqac/student_satisfaction_survey

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
No Data Entered/Not Applicable !!!				
View File				

3.1.2 – Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other fellows in the Institution enrolled during the year

Name of Research fellowship	Duration of the fellowship	Funding Agency
No Data Entered/Not Applicable !!!		
View File		

3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
No Data Entered/Not Applicable !!!				
View File				

3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
No Data Entered/Not Applicable !!!		
View File		

3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
No Data Entered/Not Applicable !!!				
View File				

3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
No Data Entered/Not Applicable !!!					
View File					

3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Mathematics	1
English	2
Bio Engineering	5
Life Sciences	9
Computer Science and Engineering	16
Computer Science	2
Electronics	13
Electrical	5
Mechanical Engineering	7
Physics	2
Chemistry	4
Chemical	1
Business Administration	2
Mathematics	2
Science and Humanities	1

3.4.2 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
No Data Entered/Not Applicable !!!			
View File			

3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
No Data Entered/Not Applicable !!!	
View File	

3.4.4 – Patents published/awarded/applied during the year

Patent Details	Patent status	Patent Number	Date of Award
No Data Entered/Not Applicable !!!			

View File

3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
No Data Entered/Not Applicable !!!						

View File

3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
No Data Entered/Not Applicable !!!						

View File

3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	145	125	58	67
Presented papers	46	112	66	405
Resource persons	18	130	10	3
No file uploaded.				

3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
No Data Entered/Not Applicable !!!			

View File

3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
No Data Entered/Not Applicable !!!				

View File

3.6 – Extension Activities

3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
No Data Entered/Not Applicable !!!			
View File			

3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Flying Squadron	Best Flying Squadron	Tamil Nadu state level competition	5
0.22" Firing	First Place	Tamil Nadu state level competition	1
Skeet Shooting	Third Place	Tamil Nadu state level competition	1
flying	Second and Third place	Tamil Nadu state level competition	2
Flying Competition	ALL INDIA BEST PILOT - Bronze Medal All India VayuSainik Camp(All India level competition) 1	(All India level competition)	1
Skeet Shooting	Silver Medal	All India VayuSainik Camp (All India level competition)	1
Tent Pitching	Third Place	All India VayuSainik Camp (All India level competition)	1
NASA Human Exploration Rover Challenge on April 16-18, 2015	NASA	NASA	7
No file uploaded.			

3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
National	Conference	SATHYABAMA UNIVERSITY Propecting high value Industrial Enzymes(presentation)	1	1
National	SSN College of Engineering	Basic programming in	1	1

		signal and image processing		
National	SPIRO Solutions Pvt Ltd	Evolutions of Embedded Systems	1	1
National	MGR Janaki College	Chennai Storytelling Festival	1	1
National	SATHYABAMA UNIVERSITY	Applied science and Engineering for health and environment(Presentation)	1	4
National	Avinashilingam University	Computer Aided Diagnosis for Retinal Diseases	1	2
National Conference	Mohamed Sathak College of Arts and Science	Emerging trends in management if infectious diseases and public health(Presentation)	1	3
Professional training	Apex Biotechnology Training and Research Institute	Inplant training	1	1
College Gathering hall Backdrop - NekizhiThirai	Sathyabama University and government schools	Hands on creation of Back drop 5 350 government school students Created the Back drop work by using one lakh one hundred and four (1,00,104) bottle caps in	5	350
Swachh Bharat	TN Air Squadron	Coastal Cleaning	3	75
No file uploaded.				

3.7 – Collaborations

3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
No Data Entered/Not Applicable !!!			
View File			

3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
No Data Entered/Not Applicable !!!					
View File					

3.7.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
No Data Entered/Not Applicable !!!			
View File			

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
205000000	193361789

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Laboratories	Existing
Laboratories	Existing
Laboratories	Newly Added
No file uploaded.	

4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
AUTOLIB	Fully	8.2	2006

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	246394	145853756	5598	4561269	251992	150415025
Reference Books	10717	8065541	2803	1274955	13520	9340496
e-Books	11926	23500	Nill	Nill	11926	23500
Journals	144	339247	24	3178268	168	3517515

e-Journals	19149	5915444	9	410644	19158	6326088
CD & Video	1541	Nill	452	Nill	1993	Nill
Library Automation	Nill	397600	Nill	Nill	Nill	397600
Others(specify)	Nill	Nill	Nill	1200000	Nill	1200000

[View File](#)

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
No Data Entered/Not Applicable !!!			
No file uploaded.			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	2442	30	310	30	10	200	2442	310	25
Added	700	4	190	4	2	50	650	190	20
Total	3142	34	500	34	12	250	3092	500	45

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

500 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Sathyabama Media Centre	https://www.sathyabama.ac.in/Media_Centre

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites
98500000	93555000	81500000	75450000

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

- **The maintenance office of the institution oversees the maintenance of**

buildings, classrooms and laboratories. • The maintenance office is headed by the Registrar who efficiently maintains the infrastructure of the institution • Adequate in - house staff is employed to meticulously maintain hygiene, cleanliness and infrastructure on the campus so as to provide a congenial learning environment. Trash bins have been place on every floor and classroom. • The institution houses two research parks which runs real time research projects in various fields and has also been funded by many Government, international and national organizations. • The greenery of the institution is maintained by the gardeners of our institution. • Classrooms, Staffrooms, Seminar halls and Laboratories, etc are cleaned and maintained regularly by respective support staff . • The institution has trained electricians, plumbers and inhouse civil workers. • Lab assistants under the supervision of the System administrator maintain the efficiency of the college computers and accessories. • The campus maintenance is monitored through surveillance Cameras. • Every department maintains a stock register and maintenance register for periodic maintenance of the equipments. • Pest control of library books and records is done every year by the maintenance department. • Well qualified and experienced Doctors and medical attendants are always available in terms of emergencies. • Good facilities for inpatient, outpatient and emergency care are available. • The institution has University has Sports Cell, NSS Cell, Cultural, Literary and other Committees to promote students interest in sports and other activities. • The sports department has a separate gym in the hostel which can be utilized by the students and faculty members. Apart from this we have an indoor basketball stadium. • There are also outdoor game fields and grounds for the maintaining the fitness of the staff and students.

https://www.sathyabama.ac.in/academics/iqac

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Anbu Scholarship scheme	637	68739700
Financial Support from Other Sources			
a) National	Nill	Nill	Nill
b)International	Nill	Nill	Nill
View File			

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
No Data Entered/Not Applicable !!!			
View File			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling	Number of students who have passedin the comp. exam	Number of studentsp placed

2016	Evolve	Nill	1430	Nill	1354
2016	Career Opp ortunities	Nill	1520	Nill	1460
2016	AptiCracker	Nill	1813	Nill	1726
2016	CodeGene	Nill	1813	Nill	1726

No file uploaded.

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
15	15	3

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
No Data Entered/Not Applicable !!!					
View File					

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2017	18	B.Tech	Biomedical Engineering	University of Oklahoma, US	M.S
2017	12	B.Arch	Arhitecture	SRM University	M.Arch
View File					

5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GMAT	3
Any Other	140
GRE	108
TOFEL	12
No file uploaded.	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
No Data Entered/Not Applicable !!!		

5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2016	RJ award	National	Nill	1	11SCH145	SACHINDEV. C.K

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

A group of ignited minds clustered together to provide regular inputs for the complete development of a student. The Student Development Cell (SDC) is to identify the potential of each student and to facilitate them in achieving their academic goals through various clubs and participate in the various academic activities. Student's feedback has taken for preparing the syllabus on CBCS systems. Every department there is student ambassador for representing the students of the department to share the academic and general issues to the higher officials. They also take part in organizing the seminar, conferences, workshops', cultural, club activities and societal activities.AtSathyabama, we have 21 clubs which play a vital part of every student life in Campus. Open to all students, the clubs plan events and activities throughout the year. All the clubs together conduct an annual national level technical event called Technosummit. These clubs enrich the social, cultural and academic experience of students. This is a cognitive domain of knowledge sharing in various fields, which influence the larger student community and offers diverse learning practices. It provides an exclusive platform for different dimension of learning, networking and socializing outside of the classroom. SDC organizes a variety of events such as Workshops, Skill development courses, Power lecture series, Value added courses, Seminars and many more to mention.Student activities are initiated through various Clubs and Schemes like National Service Scheme (NSS), Youth Red Cross (YRC), Red Ribbon Club, Community Development Cell, Eco Club, Rotaract Club. These clubs and Centres are devoted to serve the society. Several Awareness Camps, Health Camps and Rallies are organized by these clubs.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

With more than 40,000 alumni living, working, and innovating around the globe, Sathyabama alumni network is a hub of inspiration and opportunity. The Sathyabama Alumni Association was established by our Founder Chancellor Col. Dr. Jeppiaar in the year of 1992. Currently in its 29th year, it continues to foster meaningful relationships between Sathyabama alumni and the present Sathyabamites. The connections made in this program help prepare our students for a successful future and to develop synergistic plans to aid and improve our campus community. Our alumni facilitate the self-assessment and career exploration of our students to develop clear career goals and paths. They also provide their expertise on career guidance and promote their benefits among the students, alumni, faculty, staff and industry partners.

5.4.2 – No. of registered Alumni:

20985

5.4.3 – Alumni contribution during the year (in Rupees) :

2850000

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni Talk 5/8/2016 Ar.shirlo selvam 2015 Architecture-Alumni talk Alumni Talk 12.09.16 Ms.Deepika Davulluri 2016 Motivational Talk Alumni Talk 07.11.16 Naidu Nirmal Raj 2010 Development of career in BME field Alumni Talk 02.03.17 Vignesh 2014 Revit 2017 Alumni Talk 07.03.17 Mr. Madhusudhan 2013 Contemporary on TV News Alumni Talk 20.02.17 Ar.Karthick priya 2015 Architecture-Alumni talk Alumni Talk 07.04.17 Mr.Sayan Datta, Assistant Engineer, SFD Engineers, New Delhi 2013 Solar energy and opportunities Alumni Talk 29.06.17 Mr.Visharl Arjun,I.A.S Guest Inspiring speech

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Sathyabama functions in a well-structured manner to ensure participative management at all levels of decision making. Decision making bodies and Committees are formed, through which all levels, starting from the Board of Management to faculty members, administrative staff members and lower levels effectively participate in decision making. Required level of autonomy is provided to the individuals at all levels and everyone act responsibly and make decentralization a success contributing to the growth of the Institution. Top management rightly delegates the authority to employees in the middle and lower levels and focuses on the major developmental decisions related to the vision and mission of the Institution. Deans of Schools and Heads of the Departments have been delegated adequate powers by the Vice Chancellor to smoothly run the Institution. 1. Introduction of Two Heads for a Department Two heads were appointed in each department, namely i. Head of the Department- Academics ii. Head of the Department- Research This initiative was taken to focus on and to give equal emphasis to academic and research efforts of the Departments. i)Head of the Department- Academics Head of the Department- Academics will look after the overall functioning of the Departments and will lead and coordinate the academic activities of the Department like curriculum development, teaching and learning, Staff Development, Student Welfare and Examinations. ii)Head of the Department- Research Head of the Department- Research will direct the efforts of the Department effectively towards the research, guide the faculty members to pursue research, guide them to apply for research projects funded by various research agencies like DST,DBT, MoES, MHRD etc 2. Centre for Academic Partnership and International Relations Centre for Academic partnership and International Relations is an initiative of Sathyabama Institute of Science and Technology devoted to promote academic alliances with Universities and Institutions at National and International level. The Centre establishes Partnerships with Institutions and facilitates faculty exchange programme, student exchange programme and semester abroad programme and other International Study Programmes. The Centre also facilitate collaborative activities like joint research and joint conferences with International Universities. The Institution has MoUs with many Universities across the world and actively involved in collaborative activities with those Partnering Universities. The Centre has been instrumental in the establishment of international tie ups and has initiated collaborations with International

Universities and Research Organisations across the globe. The Centre coordinates all the International Programmes. The Internationalization Strategy is devised by the top management and the process of internationalization is the joint effort of the Centre for Academic partnership and International Relations and the faculty members working across the departments. A Team of faculty work exclusively for the Centre, under the direct guidance and control of the Vice Chancellor of the Institution. This team is supported by the faculty members representing every department. This is one initiative to encourage participative management in the institution. Collaboration with outsiders and with international counterparts from different backgrounds is a powerful way of developing a creative and open environment in the Institution.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	• Our curriculum focuses much on imparting practical knowledge through personal observation and interaction with the real work place. • In order to establish link between the industry and the Institution, Internships and Industrial Visits are included as part of all the Programmes. Every student is required to undergo Industrial Visits during every semester of the Programme. • The students undergo Internship in an industry for a minimum period of 3 weeks. At the end of second year, during the semester holidays they undergo a Professional Training for a minimum period of 2 weeks.
Teaching and Learning	• Students are exposed to opportunities that develop their overall personality. • To provide International learning experience, students are provided opportunity to study one semester in foreign Universities. Students are sent on Semester Abroad Programmes (SAP) to our partnering universities across the world. The students study 4-6 subjects for which credits are transferred. • Students are also provided opportunity to pursue internship at International Institutions. • To instill patriotism and to develop a sense of social and civic responsibility among students,enrolment in Non-Credit Courses like National Cadet Corps (NCC), National Service Scheme (NSS) and Youth Red Cross (YRC) are encouraged.
Examination and Evaluation	• Examinations Results are published

	online. Performance of every student is reported to their parents. If a student's performance is not satisfactory in the continuous assessment, special attention will be given to him/her so that he/she will perform well in the End Semester Examination. • Students who undergo training in Industry have to submit a report. The evaluation of training is made by a three member committee constituted by Head of the Department in consultation with year coordinator and respective Training Coordinator. A presentation should be made by the student before the Committee, based on the Industrial Training or Professional Enrichment undergone.
Research and Development	• The Institution has launched the first successful Student Satellite SATHYABAMASAT designed and developed by Staff and Students in association with Indian Space Research Organization, Government of India. This Nano Satellite was launched on June 22nd 2016 to monitor the presence of greenhouse gases in the Atmosphere. • The Institution invested in research infrastructure and exceptional laboratories are established. • Optimum utilization of the research facilities led to the enhanced academic and research intent among the faculty and students. • Intellectual Property Facilitation Cell is established to support the innovators in patenting process.
Library, ICT and Physical Infrastructure / Instrumentation	• Latest books, journal subscriptions, technical magazines are added to the library resources. E-books, E-journals are subscribed for the Library. • Books required for preparation of Civil Services Examinations were purchased. • Additional Smart classrooms are constructed to cater to the increasing need for ICT enabled teaching and learning. • Centres of Excellence in Animal Research, Energy Research and Earth Sciences are established in full-fledged manner. • New Auditorium with Air conditioning facility and 500 seating capacity has been constructed.
Human Resource Management	• Faculty members are deputed for Orientation and refresher courses at regular intervals to keep them updated with the latest developments in their

	field. • Child Care Centre in the Institution was upgraded with more facilities. • Admissions are given for the children of Non-Teaching staff with full fee waiver. • Performance of the staff is objectively evaluated at the end of each academic year. Faculty assessment is based on academic contribution and research contribution. Faculty with good Research publications, projects and patents are given due recognition and promotions and increments are based on this evaluation.
Industry Interaction / Collaboration	• Industry experts are invited to deliver expert talks and share their expertise. Memorandum of Understandings were signed with companies in IT, ICT, Automobile industries, which helped in getting opportunities like Professional Internships, Industrial Visits and real time projects for students. • Joint Academic Programmes in association with Industries were offered with the objective of developing the skills of the students and make them Industry ready. Joint Programmes with leading companies like IBM, Oracle, Cisco and Infosys provided opportunity for students to be trained and mentored by industrial experts and increase the prospects of their job placements in good companies • Faculty members have published Technical Papers jointly with Industrial Partners.
Admission of Students	• The Institution reserves seats for underprivileged and socially, economically backward students. The reservation in admission is used as a scheme to promote the participation of the underrepresented group in the education and provide expanded opportunities to them and not to discriminate against any group. • Promotion team of the Institution sincerely follows up the prospective Applicants who make enquiries. This has resulted in increased number of Applications. • Admission Office has a team which provides information to the students across India and International students who approach the Institution for information on admissions, courses available and scholarships.

6.2.2 – Implementation of e-governance in areas of operations:

E-governace area	Details

Administration	Staff members attendance is online through the biometric system. Library is completely made available online. The conference halls, auditoriums, seminar halls can be booked online.
Examination	The examination process is completely made online. Arrear fees can be paid online. Hall ticket can be generated online.

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
No Data Entered/Not Applicable !!!				
View File				

6.3.2 – Number of professional development / administrative training programmes organized by the University for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
No Data Entered/Not Applicable !!!						
View File						

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
No Data Entered/Not Applicable !!!				
View File				

6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
11	11	25	25

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
• Teaching staff members children (who get admission in our university) provided 50	• A 100 concession for the children for the non teaching faculty whose child scores very high	• Institute provides 100 Fee waiving with food and accommodation for Person with Disability

concession on tuition fee. • Medical insurance (sum assured Rs.One lakh/Head) for the staff members is provided and Premium paid by the management. • A maternity leave of three months with full pay can be availed by the Female staff members (for two children). • The staff members who have been working in our university for more than 5 years, in case of sudden demise, the family member may be granted an amount of 1 lakh. • Free Master health checkup for our staff members above 35 years will be provided • Free dental screening camp will be organized for all the staff members every 6 months in our university Dental hospital. • Summer camp is organized every year for the children of our staff members • One-week medical leave may be granted to the staff members (once in a year) for the staff members who have undergone surgery. • Day care facility is available for the children of our Staff members. • 50 of the registration fee will be provided for referred conferences and journals such as IEEE, ACM, ELSEVIER and SCOPUS INDEXED journal. A Staff can avail this facility once in a year. • Staff children who have finished 10th and 12th with highest mark will be honored with a cash award of Rs.10,000/- each (for first 3 toppers). • 50 TA will be granted for the foreign conference. A Staff can avail this facility once in 3 years.

score in the qualifying examination. • Medical insurance (sum assured Rs.One lakh/Head) for the staff members is provided and Premium paid by the management. • A maternity leave of three months with full pay can be availed by the Female staff members (for two children). • The staff members who have been working in our university for more than 5 years, in case of sudden demise, the family member may be granted an amount of 1 lakh. • Free Master health checkup for our staff members above 35 years will be provided • Free dental screening camp will be organized for all the staff members every 6 months in our university Dental hospital. • Summer camp is organized every year for the children of our staff members • One-week medical leave may be granted to the staff members (once in a year) for the staff members who have undergone surgery. • Day care facility is available for the children of our Staff members.

(PWD) student, acid attacked students and Economically Weaker Sections (EWS) and Sports students. • Free health checkup for students • Free dental screening camp will be organized for all the students every 6 months in our university Dental hospital.

This facility can be availed by the staff members who are working in our university for more than 10 Years • A grant of Rs.10,000/- may be sanctioned for each faculty to conduct FDP once in a year • Staff orientation program will be conducted for all the new staff members joining in our university. • Staff members showing good publication will be rewarded with a cash prize and certificate. • Staff member doing sponsored research projects will be rewarded after completing the project successfully.

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

The Institute maintains the accounts as per the Accounting standards prescribed by Ministry of Finance, Government of India. As per these guidelines, all the receipts and payments are being recorded using Tally software. The accounts and the related records are being audited both internally and externally. Internal auditing takes place one in three months in which the Accounts Departments verifies all the records of receipts and payments of all the Administrative and Academic Departments. A separate Audit Team in place in order audit the Accounts relating to the sponsored projects from Governmental and Non-Governmental agencies. In addition to the periodical internal audit, mandatory external audit is carried by the External Agency, namely Ramakrishna and Associates, A chartered Accounting and Auditing Firm. This firm undertaken he total auditing and after the due consolidation, the Final accounts are submitted in the form of Final Accounts. The Final accounts are submitted to the income Tax Departments for filing the income Returns . In addition to this, periodical submission of GST payments are also being carried.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Nil	0	Not Available
No file uploaded.		

6.4.3 – Total corpus fund generated

50000000

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority

Academic	Yes	M/S Krishnaram Associates	Yes	Internal Auditor
Administrative	Yes	M/S Krishnaram Associates	Yes	Internal Auditor

6.5.2 – What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? (if applicable)

NA

6.5.3 – Activities and support from the Parent – Teacher Association (at least three)

Feedback is received from parents for overall performance of the Institution. Parents are involved in committees of the Institution. Parents are invited for the orientation of the first year students on the first day students join the Institution. The Institutions rules, policies, and regulations are briefed to both the parents and students. With the support from PTA, Achievers day was organized for the best outgoing student from each department. All parents were invited to the Graduation day celebrations. Feedback and suggestions were taken from parents for revising the pre-set academic curriculum.

6.5.4 – Development programmes for support staff (at least three)

Two days training program on effective documentation and digitization was organized for administration staff. Workshop on Hardware and Networking was organized for all technicians in the School of Electrical Electronics and School of Computer Science. The Department of Visual Communications organized a Beginners Tutorial in Adobe Photoshop for all non-technical staff. The Department of English organized a workshop on effective communication skills for all non-technical staff.

6.5.5 – Post Accreditation initiative(s) (mention at least three)

1. Research infrastructure was improved by purchasing new equipments. 2. New Laboratories were set up in few departments. 3. Initiating the Process of OBE 4. Venture into internationalisation through exchange and Study Abroad Programmes 5. Inititated Joint Academic Programmes with Texas Instruments, Vector works, CAD Laboratories

6.5.6 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	Yes
d)NBA or any other quality audit	No

6.5.7 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
No Data Entered/Not Applicable !!!					
View File					

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
National Seminar on Women Empowerment	14/09/2016	14/09/2016	104	87
National Workshop on Gender Equality	20/01/2017	20/01/2017	95	83
National Conference on Women and Gender	13/02/2017	13/02/2017	78	94
National Workshop on achieving balanced unisex participation of women and men in political and public decision making	28/02/2017	28/02/2017	85	53
National Symposium on Gender and Family economies	15/03/2017	15/03/2017	64	92

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources

Year by year the strength of the institution has been increasing and the schools began to offer varied programmes. However, the requirements were met by the energy given by the TNEB (24000 kVA) during this period also. The utilization for the period was 43,03,070 kVAh. It is not to meet the demand but to switch over to green initiatives, the institute started promoting and encouraging research to be translated to benefit both the institution and the society. The energy requirement for the operation of all electrical and electronic equipments in classrooms, laboratories, administrative buildings, seminar halls, auditoriums, conference rooms, library, gymnasiums, hostels, staff rooms, hospital, dental college etc., increased owing to the expansion of the schools both in the engineering and medical stream. The increase in energy requirements though increased was still met with what was provided by TNEB. The Ministry of Human Resource and Development funded Centre of Excellence for Energy Research continued to rigorously focus on other clean energy products including solid oxide fuel cells, super capacitors while still involving themselves in testing the performance and functioning of the novel energy trapping adsorbent materials. The conversion of food waste with waste water provision for nutrients using Microbial Fuel Cells for hydrogen production was demonstrated successfully . Scaling up of the process and technology developed was recommended by experts witnessing the prototype showcased during Techno summit held in IIT Mumbai. Biodiesel production to meet vehicular requirements continued with improvisation in quality of the biodiesel in terms of both

engine performance and emission reduction. The vast spread campus needs a transportation mechanism for the commutation of inmates to different locations in the campus: from hostels to departments, from classrooms to mess halls, in medical emergencies from point of requirement to the Sathyabama Institute of Science and Technology General Hospital, for visitors from the campus main entrance to different locations inside the campus. The management of Sathyabama with the intention to ease the commutation proposed to operate battery vehicles round the clock inside the campus. Measures were taken to procure two battery operated vehicles to meet the requirement and Battery operated vehicles were used for shuttling services within campus. The establishment of Sewage Treatment Plant inside the institution premises was initiated in 2014 and feasibility studies, site identification studies, effluent quality assessment under full load (full functioning of the institution with maximum students), partial load (rotational entry of students during the time of examinations) minimal load (during vacations) were determined during this period to design the STP layout for treatment of sewage water to treated water with the objective to use it for toilet flushing and gardening purposes.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	10
Provision for lift	Yes	5
Ramp/Rails	Yes	5
Braille Software/facilities	Yes	2
Rest Rooms	Yes	5
Scribes for examination	Yes	2
Special skill development for differently abled students	Yes	10
Any other similar facility	Yes	10

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
No Data Entered/Not Applicable !!!							
View File							

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Handbook on Human Values And Professional Ethics	01/07/2016	Teachers implicitly imparted human values and professional ethics by selecting the topics and by insisting on correct

answers By encouraging students to seek the truth of the matter established classroom routines, formed groups, enforced discipline, encouraged excellence, etc.. Indeed, teachers with positive attitude about students and they are instrumental in fostering students achievements and ethical behaviour. Activities are arranged to create a caring relationship between teacher-student, and Integrative Ethical Education model which has five steps for moral character development (supportive climate, ethical skills, apprenticeship instruction, self-regulation, and adopting a developmental systems approach). so it will be implemented to be positive life principles that will be developed by the students in their future.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Capacity Building Training Programme on Social Values	24/10/2016	24/10/2016	100
One day Conference on Environmental Studies and Sustainable Development	11/11/2016	11/11/2016	150
Workshop on Law and Ethics	20/02/2017	20/02/2017	100
One week lecture series on Righteous conduct	08/03/2017	14/03/2017	200
One week lecture series on Equality and Truth	17/04/2017	21/04/2017	185
No file uploaded.			

7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)
Rain water harvesting measures are currently underway to effectively utilize rain water during scare situations. E-wastes like computers and its accessories, electrical cables are dispersed through buy back schemes. Bio degradable and non bio degradable wastes are segregated in the campus and bio degradable wastes are used as food for cattle and used as manure for the plants and trees. Non bio degradable wastes are disposed through the waste disposal adopted through Chennai Metropolitan garbage cleaning methods. Biodiesel Unit: A 50 litre capacity Biodiesel Unit is operated in the University to operate the University buses with B-10 fuel produced from waste cooking oil to adhere to the emission rules.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

BEST PRACTICES - I Title: INDUSTRY-ACADEMIA INTERACTION OBJECTIVES OF THE PRACTICE: • To fill the gaps between the industry requisites and the prescribed curriculum • To facilitate knowledge transfer between academicians and industry engineers • To understand the current trend and needed skill to work in a industry environment • To use the problem-solving skills and knowledge of academia to solve industrial problems THE CONTEXT Industrial challenges and problems are so wide and large, which needs future budding engineers with a practical understanding of the problems and solving them. There exists a gap between the academic study level problems and industry relevant problems, which needs to be solved and addressed to. Moreover, industries are used to conventional mode of problem solving with less 'out of the box' thinking. Academic faculty and students with strong interdepartmental knit are unaware of the happenings in the industry. THE PRACTICE • Industry- Institute Interaction cell comprising of academic and research faculty convene regular meetings to discuss the progress and the way forward in developing Industry Institute Interaction • Regular research talks and lectures by industry engineers and managers are organized for students and faculty • The introduction of the course "Industry 4.0" in the curriculum gives a broader understanding on the level of technology at industries • Industry sponsored labs are set up at departments with industrial experts handling few practical sessions OBSTACLES OBSERVED The perfect balance between curriculum learning and industry problem solving is a challenge for the students, who most often tend to compromise one for the other. EVIDENCE OF SUCCESS Signing up of MOU's with industries, industry labs set up at the campus, students involved in industry relevant projects, industry mentors for academic projects, rise in students getting placed at a high salary package at the interacting industries are proofs to our success story RESOURCES REQUIRED Manpower with dedicated work time work towards industry- Institute interaction Institute provides infra structure facilities for the labs set by the Industry in the campus BEST PRACTICES - II Title: PARTICIPATIVE DECISION MAKIN OBJECTIVES OF THE PRACTICE: • Ensure participation of all stake holders in the decision making process • To obtain wide range of suggestions and adopt the best one • To make all the stake holders responsible towards the decisions made THE CONTEXT Sathyabama has always kept the societal benefit as its prime goal in every step it takes. Hence to induce maximum benefit to all the stake holders, it is necessary to involve all the stake holders in the decision making process. THE PRACTICE Student feedback mechanism, Industry experts and alumni involvement in the Board of Studies and curriculum development process, Faculty and student satisfaction survey, performance appraisal, Involvement and feedback from stake holders in the formulation of PEO's, Yearly parent feedback mechanism are few practices happening to ensure participation of all stake holders OBSTACLES OBSERVED Decision making process currently includes many phases and takes more time which needs to be optimized in the coming years EVIDENCE OF SUCCESS • Better

and voluntary cooperation is observed among the three crucial stake holders-students, faculty and parents • Implementing a new framework or policy seems to be easier than before as these stake holders become ambassadors for the framework • Better academia- industrial leverage is accomplished RESOURCES REQUIRED Reliable feedback systems and softwares are needed to execute this process in a regulated way CONTACT PERSON Dr. T. Sasipraba Vice Chancellor, Sathyabama Institute of Science and Technology

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

http://www.sathyabama.ac.in/academics/iqac

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

The University is proud of its in-house project "Child Care Centre" for children aged 6 months through 3 years, an initiative to support women employed in the University. This is a great step towards creating a stress free work environment to women and encourages gender equality at work. Our Institution made history by launching the first successful Student Satellite SATHYABAMASAT designed and developed by Staff and Students in association with Indian Space Research Organization, Government of India. This Nano Satellite was launched on June 22nd 2016 to monitor the presence of greenhouse gases in the Atmosphere. It is to our credit that the satellite successfully transmits data till date. We started our evolution into an innovative University by establishing Intellectual Property Facilitation Cell to support the innovators in patenting process. The institution foresaw the need of Academic Credit bank System and introduced the Semester Abroad Programmes. The students are given the liberty to choose and undergo courses of his interest from any University across the globe for a period of 3 to 6 months. The students acquire an international learning experience and are open to learn different cultures. We spearheaded the concept of Flexible curriculum by allowing students to account credits acquired through this Semester Abroad Programmes. Centres of Excellence in Animal Research, Energy Research and Earth Sciences are established in full-fledged manner to be the fore players in research. Centres of excellence were established in association with leading software industries like IBM, CISCO and Virtusa. Creating opportunities is our motto to get our students placed in the best industries. Inclusion of Placement and skill based training from the first year of graduation was an important step towards increasing the placement percentages over the years.

Provide the weblink of the institution

http://www.sathyabama.ac.in/academics/iqac

8.Future Plans of Actions for Next Academic Year

NAAC Accreditation: Going through a process of Accreditation is one of the important requirements of every higher educational Institution. To ascertain the academic and administrative quality and to meet the standards established by a nationally recognized accrediting body, Institutions choose to undergo accreditations. The Institution is planning to go for NAAC Accreditation and will work towards achieving A Grade in the Accreditation Process. Masters in Dental Surgery: The Institution having established a Dental College and a 100 bedded general hospital, the Institution envisages to launch Masters Programme in Dental Surgery in the next academic year. To cater to the demand for post graduate programme in Dental Surgery, The Institution is keen on starting MDS Programme. The Institution will apply and fulfil the required formalities laid down by the Dental Council of India for starting of MDS programme. Intellectual Property

Facilitation Cell: To support and promote innovation and to protect Intellectual Properties, the Institution is planning to set up an Intellectual Property Facilitation Cell. The Institution will establish an exclusive cell for Intellectual Property rights to create awareness among faculty, students, researchers on Intellectual Property rights and to protect the rights of the researchers and academicians. The IPR Cell will serve as a platform for the researchers, faculty and students for guiding and protecting the rights of their ideas and innovations. QS Stars rating: To be recognized both at national and International arena as an Institution of Excellence the institution is planning to apply for QS Stars rating. QS stars rating is given to Universities for academic and research excellence by Quacquarelli Symonds, An international Ranking Agency for ranking Institutions across the world. QS ratings rates Teaching, Research, Inclusiveness, Facilities, Employability and Innovation on a Five star rating. International Rankings: To create International visibility and to be recognised at Global level as one of the top Institutions, Sathyabama is planning to participate in Times Higher Education World Rankings, Subject Rankings, Asia Rankings, Young University Rankings, Emerging Economies Rankings and QS world University rankings, Asia Rankings and India Rankings. Dr. Remibai Jeppiaar Auditorium- To construct a multi-purpose, fully airconditioned additional Auditorium with more than 1000 seating capacity. This auditorium will be a venue for major indoor events and programmes including Convocation, Alumni meetings, Awards Ceremonies, Employees Meeting, Cultural events etc. This Auditorium will be one of its kind with best ICT infrastructure and latest equipments.