

(DEEMED TO BE UNIVERSITY)
Accredited "A" Grade by NAAC | 12B Status by UGC | Approved by AICTE

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INTERNAL QUALITY ASSURANCE CELL

ACADEMIC AND ADMINISTRATIVE AUDIT REPORT - INTERNAL

ACADEMIC YEAR 2019-20 **29.06.2020 and 30.06.2020**

S. No.	Parameter	Verification Yes/No	Observations / Suggestions
	Curricu	lar Aspects	
1	Is curriculum in line with local/national/regional/global needs and with PO, PSO	Yes	
2	Is the curriculum focus on employability / skill development/ entrepreneurship	Yes	 The curriculum has components with special focus on employability, entrepreneurship. Capstone projects, Domain specific elective courses and internships (401 courses focuses on the above)
3	Is new course introduced and syllabus periodically updated	Yes	105 new courses introduced.
4	Is CBCS / elective system implemented	Yes	• Implemented in 24 programmes
5	Whether the issues of Environment and Sustainability, Gender, Human Values and Professional Ethics addressed by courses	Yes	 Courses on Environmental Science and Principles of Management and Professional Ethics are in curriculum Course on Human values is not yet introduced in the curriculum Activities are conducted for promotion of universal

			Values and Ethics
6	Is value added course/ field projects /research projects/ internships introduced and students enrolled	Yes	 Internships are mandatory and carry credits. 39 value added courses To concentrate on the real time projects undertaken in core / IT industries.
7	Is Stakeholder feedback taken for the design and review of syllabus and action taken	Yes	Curriculum formulation / revision are based on the inputs and feedback from students, faculty, Industrial experts, Alumni and employers. Verified BoS minutes.
	Teaching, Learning	g and Evalu	ation
8	Is measures taken for supporting advanced learners and slow learners?	Yes	Supporting system for Advanced Learners/ Slow learners – Proof Verified • Merit Scholarship • Student's publications • Participation in technical / non technical events / club activities / student chapters • Special classes for slow learners • Constant monitoring of attendance, performance and counseling encouraging for slow learners.
9	Student – Full time teacher ratio		1:20
10	Is student centric method used for enhancing learning experiences?	Yes	 Field Projects for experiential and participative learning. Audio- Visual methodology Ability Enhancement and Skill Enhancement courses Project based learning approach Flipped classroom Case studies Addressing complex engineering real time problems Discussions and debates

11	Is ICT enabled Teaching / Examination / evaluation practiced?	Yes	Google class room
12	Number of full-time teachers with Ph.D		• 390
13	Number of teachers who received awards and recognitions	Yes	46 faculty have received 57 awards / recognitions
14	Is grievances related to teaching - learning / examination / evaluation / facilities addressed?	Yes	 Student Help Desk and Student's Grievance cell addresses the grievances of the students in the campus and the issues are addressed with immediate attention. Based on the feedback on teaching / issues on the examination and evaluation, are addressed and the corrective actions are taken. 1.32 % of student's grievances about evaluation is addressed.
15	Availability /Dissemination /Attainment of POs, PSOs, Cos	Yes	 The COs, POs, PSOs are disseminated to all stakeholders through notice boards, circulars, website, newsletters, Record books, E mail subject attachments etc. The attainment of Pos, PSOs and COs are evaluated.
18	Average Pass Percentage	Yes	• 94.5 %
19	Is Student satisfaction survey (SSS) taken on teaching learning process / action taken?	Yes	https://www.sathyabama.ac.in/academics/iqac/student%2 0satisfaction%20survey Students are interested in More practical learning, industrial vision for real time applications based learning, motivating for doing projects in every semester, more interactive sessions and to include more images in PPT rather than simple theoretical points. Corrective actions are immediately initiated and effectiveness of the corrective action are reviewed by the HoD's / Deans.

			 Accordingly faculty are advised to prepare ppt with more visually understandable slides.
	Research and De	evelopment	
20	Is Seed Money received for research?	Yes	• INR 50000 to 300000 is granted to staff members for their research to develop products and as an outcome, 8 products are now ready for commercialization.
21	Is national/ international fellowship received/ financial support for advanced studies/ research/ innovation and incentives provided by the institution?	Yes	 Visiting Student Scholarship from Lund University Travel grant from DST-SERB Korean Research Fellowship (KRF) for PDF Programme at Gyeongsang National University, South Korea European Research Council (ERC) Fellowship for PDF Programme at Lund University, Sweeden Research internship at Kaohsiung Medical University (KMU), Taiwan through Taiwan Education Experience Program Research internship at National Dong Hwa University, Taiwan. Indo-US Purdue Partnership Programme, funded by DST-OVDF. Visiting Professor in Laboratory of Prof. JEAN Marie Lehn (Nobel Laureate In Supramolecular Chemistry In 1987) at Institute of Supramolecular Science and Engineering, University of Strasbourg, France Young Researcher Fellowship at National Institute for Materials Science (NIMS), Tsukuba, JAPAN.

			 collaborative research project with University of Algarve, Portugal. collaborative research project with Japan Fisheries Research and Education Agency, Japan. Collaborative research with Hebrew University of Jerusalem Research Training Fellowship from RTF-DCS scheme of DST. Financial support provided for faculty exchange programme. 17 faculty have visited universities abroad under faculty exchange programme.
22	Number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other research fellows enrolled	Yes	• 29 JRF , 1 SRF, 3 PDF, 1 research associate
23	Is Extramural funding for Research /by Govt/ / Non-govt. agencies/Fund for organizing seminars and conferences received?	Yes	 44 new projects worth around 9 crores have been sanctioned 34 ongoing projects. 30 projects completed. 10 funded programmes organized Funding agencies – MHRD, MoES, DST, AICTE, DBT, ISRO, DRDO, ICMR.
27	Eco system for innovations including Incubation centre and other initiatives	Yes	• TBI incubates – 2 (Imagine Trend & F-Science)
28	Is workshops/seminars conducted on Research methodology, IPR, entrepreneurship, skill development	Yes	429 programs organized
29	Patents published/awarded		 Granted – 62 Published –36 Filed – 34
30	Research papers / books and chapters / e-content / Citation Index/ h-index		 471 Scopus and UGC notified journals 209 High Impact factor publications Highest impact factor is 12.96 Scopus H-Index – 71 WoS H-Index – 60 41 Publications in association with International Research Organizations and Universities. 03 books published by faculty from the research, centres. 109 Book chapters.

	Entancian activities in the naighbourhand	Vac	14 Outrosch/Augranass
31	Extension activities in the neighbourhood community / awards received / programs conducted/ students participated	Yes	 14 Outreach/Awareness Programmes conducted by Research centres, School of Mechanical, TBI and School of Building and Environment. Upliftment of Self Help Group Women and awareness programme on segregation of waste to anganwadi children in Kumizhi Village Exploring Science using foldscopes are organized for School Children Awareness Programme on Waste Management to Self Help Group Women of Kuthambakkam Village. awareness programmes to Self Help Group Women on Waste Management, Venkatapuram Village Awareness program on "Novel Technology based Entrepreneurship Development" for School Children at Kumizhi, Village national conference on 'Recent Advances in Anthropogenic Disaster Monitoring
32	Collaborative activities/functional MoUs	Yes	 41 collaborative Publications (international and national) Collaborative agreements with Industries and Universities at National (8) and International Level (34).
	Awards and Recognitions	Yes	 SIH-Hard ware Hackathon - MHRD/AICTE SRISTI-Gandhiyan Young Technology Innovation Awards(GYATI) - DBT-Birac global student solar ambassadors- AICTE/IITB Unnat Bharat Abhiyan - MHRD-AICTE 57 Faculty have received awards / recognised by national / international agencies.

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	Infrastru	cture	
33	Facilities for smart class rooms / virtual rooms / conference rooms / furnished staff cabin / New laboratories	Ycs	 New / upgraded research facilities in Jeppiaar research park and IRC Nextgen lab Data science lab, Artificition intelligence lab, Edg computing lab / CSE Smart class rooms - 44 Virtual rooms - 20 Conference rooms - 7 Furnished faculty cabin - 107
34	ICT - enabled facilities	Yes	160 class rooms with ICT facilities
35	Student - Computer ratio / available bandwidth of internet	Yes	 3:1 1 GBPS – BSNL and 500 MBPS - Jio
36	Facilities for e-content development	Yes	 Sathyabama Media centre Department of Visua communication 173 Videos in Sathyabama You Tube channel 15 Course modules in Moodle platform.
37	Budget allocation	Yes	 Allocated - Rs. 300000000 and Rs.275143700 is utilized.
	Student Support an	d Progression	
38	Students benefited by scholarships / career counselling/ guidance for competitive examinations	Yes	 No. of students benefitted with Scholarships – 1149 Career counseling – 2009 More Guidance programs for competitive examination need to be conducted
39	Capacity development and skills enhancement initiatives	Yes	Capacity development and skills enhancement – 21
40	Redressal of student grievances / ragging / Sexual harassment	Yes	 Fully functional student grievance cell, students help
41	Students qualifying in state/ national/ international level examinations	Yes	 desk , Anti ragging cell No. of students -376 GATE-08,GRE-71,TOEFL-8, GMAT-01, and 288 other examinations
42	Placement of outgoing students/ progressed to higher education/Capability enhancement programs for Placement	Yes	 1745 students have been placed 14 training programs from placement cell. Capability enhancement

			programs from departments – 21 progressed to higher education – 509 Student exchange programs CSE & IT -International Internship Programme at the University Of Texas, Dallas, USA, CSE & ECE -National University of Singapore, Singapore Mechanical - Ni University, Germany School of Bio & Chemical - MAHSA University, Malaysia Mech, Chemical and MBA - Universiti Pahang Malaysia, Malaysia
		¥7	School of Bio & Chemical - NUS, Singapore
43	Awards won by students for outstanding performance in sports/cultural activities	Yes	• 47 awards
44	Presence of Student Council and its activities / Representation of students on Academic and administration activities	Yes	21 SDC clubsNSS, NCC, YRC
45	Sports and cultural events / competitions organized	Yes	No. of events - 21
46	Registered and functional alumni association*/ alumni contribution	Yes	Fully functional alumni association. Reg. No 33256 Alumni contribution – Curriculum design and updation, Guest talks and skill development programs on recent Industrial technologies, Guidance talks on placement, higher studies, entrepreneurship and start ups. Rs.32,00,000
3 (m) 47 20 - 3 2 - 3	Governance, Leadersh	ip and Mana	gement
47	Is Statutory committee meetings held periodically *	Yes	 IQAC meetings – 4 / year Board of studies – 2 / Year Board of Management – 4 / year Academic Council – 3 / year Finance committee – 2 / year Planning and Monitoring committee – 1 / year Purchase committee – 2 / year
49	Is e-governance implemented? *	Yes	 Institute website Library management system Online fee payment portal.

			Online admission counselingOnline teaching - learning
	Performance appraisal system, promotional avenues	Yes	Measured based on faculty's self appraisal form
50	Faculty and staff effective welfare measures *	Yes	 Tuition fee concession for wards of teaching and non teaching Faculty Cash award for wards of faculty with high scores in the qualifying examinations Paid sabbatical leave and maternity leave Children day care facility / 15 days Summer camp Annual master health check up / dental cleaning / medical leave / /Medical insurance / Compensation to deceased employee.
51	Financial support to attend conferences / workshops and membership fee of professional bodies	Yes	 Registration fee / travel fee for attending conference / FDP / Journal publications / membership fee are sanctioned as per the work tenure period.
52	Professional development / administrative training Programmes organized / attended	Yes	 78 Programs organized 568 Programs attended by faculty
53	Grants received for development and maintenance of infrastructure from govt./ non-govt. bodies	Yes	
54	Internal and external financial audits *	Yes	Financial audit – Once / year
56	Revenue generated from consultancy	Yes	 Offers consultancy services to 28 agencies Total revenue generated - Rs.7,668,334
59	Facilities for / cultural activities, yoga and sports *	Yes	 Indoor Basketball Stadium Play grounds / Cricket ground Separate GYM for Boys & Girls Yoga centre in hostel
60	Hostel facility / guest room facility / Secured Campus*	Yes	Boys Hostel – 03 Girls Hostel – 03
62	Infrastructure augmentation*	Yes	Establishment of New / upgraded research facilities in Jeppiaar research park and IRC Purchase of new equipments
63	Innovation and Start up cell*	Yes	44 Awards for Innovation won by Institution / faculty

64	Research Facilities Is library automated using ILMS / has digitization facility / subscription for e-Library resources/ Institutional Values	Yes Yes and Best Pr	/research scholar / students 2 start ups from TBI sponsored by DST-NSTDEB 2 Research parks with 14 research centres. ILMS available (Autolib) Knimbus provides remote access to all the e-resources in the library
74	Promotion of gender equity	Yes	6 Gender equity promotion programs are organized
75	Is facilities available for alternate sources of energy/ energy and water conservation/ management of degradable and non-degradable waste /e-waste management*	Yes	10 kW of solar roofed pavements 0.5 KW Wind energy conversion system Food waste, E-waste, biomedical waste, plastic waste are properly disposed to recyclers. STTP plant
76	Green campus initiatives /audits on environment and energy/ disabled-friendly / Rainwater harvesting*	Yes	 Tree Plantation by exit graduates Divyangjan friendliness facilities provided – 93 beneficiaries. Rainwater harvesting facility is built. Environmental and Energy Audits performed. 6 Battery operated vehicles
77	Efforts/initiatives in providing an inclusive environment *	Yes	Physical, geographical, cultural and social diversity among both student and Faculty In certain programmes, students with physical disabilities, diver social background and acid victims are admitted,
79	National and international commemorative days, events and festivals	Yes	 Faculties are awarded for research and publications on Teachers day.
80	Best practices	Yes	 24 x 7 psycological counselling preserving the mental health of staff and students Faculty are awarded with cash prize for publications in High Impact factor Journals. Paperless administration Village adoption and School adoption schemes

	 Technological solutions
	provided to villages through
	UBA schemes.
	 Semester abroad / faculty
	exchange programmes
	 Research efforts are directed
	towards sustainable
	development goals
	 Adopting "Swachha Bharat
	Abihyan".

Dr.M.S. Godwin Premi

(J. VIJAYASHREE)

14/2/20

Dr.T.SASIPRABA, M.E.,Ph.D.,
VICE CHANCELLOR
SATHYABAMA

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INTERNAL QUALITY ASSURANCE CELL

ACADEMIC AND ADMINISTRATIVE AUDIT REPORT – EXTERNAL

ACADEMIC YEAR 2019-20

11.07.2020

S. No.	Parameter	Verification Yes/No	Observations / Suggestions
	Curricu	lar Aspects	
1	Is curriculum in line with local/national/regional/global needs and with PO, PSO	Yes	
2	Is the curriculum focus on employability / skill development/ entrepreneurship	Yes	Verified curriculum components
3	Is new course introduced and syllabus periodically updated	Yes	Verified BoS documents
4	Is CBCS / elective system implemented	Yes	Verified curriculum
5	Whether the issues of Environment and Sustainability, Gender, HumanValues and Professional Ethics addressed by courses	Yes	
6	Is value added course/ field projects /research projects/ internships introduced and students enrolled	Yes	
7	Is Stakeholder feedback taken for the design and review of syllabus and action taken	Yes	Verified minutes of board of studies.
1	Teaching, Learning	g and Evalua	tion
8	Is measures taken for supporting advanced learners and slow learners?	Yes	
9	Student – Full time teacher ratio	Satisfied	1:20
10	Is student centric method used for enhancing learning experiences?	Yes	
11	Is ICT enabled Teaching / Examination / evaluation practiced?	Yes	ICT enabled Teaching is practiced.
12	Number of full-time teachers with Ph.D	77	390
13	Number of teachers who received awards and recognitions	Yes	

14	Is grievances related to teaching - learning / examination / evaluation / facilities addressed?	Yes	
15	Availability /Dissemination /Attainment of POs, PSOs, Cos	Yes	Verified dissemination strategies and outcome attainment.
18	Average Pass Percentage	Yes	96.4 %
19	Is Student satisfaction survey (SSS) taken on teaching learning process / action taken?	Yes	
	Research and D	evelopment	
20	Is Seed Money received for research?	Yes	- Suggested to increase the seed funding amount in order to encourage faculty and students with innovative ideas
21	Is national/ international fellowship received/ financial support for advanced studies/ research/ innovation and incentives provided by the institution?	Yes	 Felowships received by researchers Financial support for advanced studies can be improved.
22	Number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other research fellows enrolled		 JRF and SRF – 14. Needs initiation for Post doctoral fellowship enrollment.
23	Is Extramural funding for Research /by Govt/ / Non-govt. agencies/Fund for organizing seminars and conferences received?	Yes	 Funding received for organizing events only in very few departments.
27	Eco system for innovations including Incubation centre and other initiatives	Yes	
28	Is workshops/seminars conducted on Research methodology, IPR, entrepreneurship, skill development	Yes	 Number of programs on entrepreneurship needs to be improved
29	Patents published/awarded		 40 Granted patents and 64 published patents
30	Research papers / books and chapters / e-content / Citation Index/ h-index		 Good number of publications and book chapters Good number of citations and I index is 73.
31	Extension activities in the neighbourhood community / awards received / programs conducted/ students participated	Yes	- Outreach Programme organized
32	Collaborative activities/functional MoUs	Yes	- Actively collaborated wit International and national organizations
	Awards and Recognitions	Yes	 Science Foundation Fellowshi Award from National Institute of materials Science, Japan. Recognitions from DST, ATA incubation centre, AICTI Govt.of Tamilnadu and Govt.of India

	Infrastru	cture	
33	Facilities for smart class rooms / virtual rooms / conference rooms / furnished staff cabin / New laboratories	Yes	 New laboratories are established in school of EEE, computing and Mechanical. All faculty are provided with furnished cabin. Sufficient number of smart class rooms and conference room facilities are available. Class rooms, conference halls,
34	ICT - enabled facilities	Yes	laboratories and auditoriums with ICT facilities
35	Student - Computer ratio / available bandwidth of internet	Yes	- 3:1 - Jio and BSNL networks (wired and Wi-fi)
26	Facilities for e-content development	Yes	Verified finance committee
36	Budget allocation	Yes	- Verified finance committee minutes.
发射	Student Support at	nd Progression	
38	Students benefited by scholarships / career counselling/ guidance for competitive examinations	Yes	
 39	Capacity development and skills enhancement	Yes	
40	initiatives Redressal of student grievances / ragging / Sexual	Yes	- Student grievance cell
41	harassment Students qualifying in state/ national/ international	Yes	 Verified database with students advisory bureau
42	level examinations Placement of outgoing students/ progressed to higher education/Capability enhancement programs for Placement	Yes	- Verified database with placement and students advisory bureau
43	Awards won by students for outstanding	Yes	-
44	performance in sports/cultural activities Presence of Student Council and its activities / Representation of students on Academic and administration activities	Yes	- Student chapters, student development clubs
45	Sports and cultural events / competitions organized	Yes	
46	Registered and functional alumni association*/ alumni contribution	Yes	
	Governance, Leadersh	ip and Man	agement
47	Is Statutory committee meetings held periodically *	Yes	
49	Is e-governance implemented? *	Yes	
	Performance appraisal system, promotional avenues	Yes	
50	Faculty and staff effective welfare measures *	Yes	Medical insurance, Dental cleaning, Tuition fee concession, Children day care facility
51	Financial support to attend conferences / workshops and membership fee of professional bodies	Yes	

52	Professional development / administrative training Programmes organized / attended	Yes	- To increase Programmes on administrative training
53	Grants received for development and maintenance of infrastructure from govt./ non-govt. bodies	Yes	
54	Internal and external financial audits *	Yes	
56	Revenue generated from consultancy	Yes	
59	Facilities for / cultural activities, yoga and sports *	Yes	 Sports Stadium, Cricket ground, GYM and Yoga centre facilities
60	Hostel facility / guest room facility / Secured Campus*	Yes	
62	Infrastructure augmentation*	Yes	- new laboratories established
63	Innovation and Start up cell*	Yes	- 3 registered start ups. Suggested to encourage product development and commercialization.
64	Research Facilities	Yes	14 research centers under 2 Research parks
65	Is library automated using ILMS / has digitization facility / subscription for e-Library resources/	Yes	
	Institutional Values :	and Best Pr	actices
74	Promotion of gender equity	Yes	
75	Is facilities available for alternate sources of energy/ energy and water conservation/ management of degradable and non-degradable waste /e-waste	Yes	
75	energy and water conservation/ management of degradable and non-degradable waste /e-waste management* Green campus initiatives /audits on environment and energy/ disabled-friendly / Rainwater	Yes	
	energy and water conservation/ management of degradable and non-degradable waste /e-waste management* Green campus initiatives /audits on environment and energy/ disabled-friendly / Rainwater harvesting* Efforts/initiatives in providing an inclusive		
76	energy and water conservation/ management of degradable and non-degradable waste /e-waste management* Green campus initiatives /audits on environment and energy/ disabled-friendly / Rainwater harvesting*	Yes	- Village adoption and School

Suggestions:

- To have institutional LMS
- To increase the seed funding amount in order to encourage faculty and students with innovative ideas
- To encourage product development and commercialization through TBI.
- Suggested to introduce course on publication ethics to Ph.D students.
- To introduce more Specialization and integrated programmes.

- To revise university IT policy
- More flexibility in CBCS

Observations:

Need improvements in the following areas.

- · Financial support for advanced studies.
- Funding received for organizing events only in very few departments.
- Number of programs on entrepreneurship
- Programmes on administrative training
- Placement in core companies

Audit peer team committee members:

Dr. T. Thyagarajan Dean, MIT Campus Anna University

Dr.T. Shanmugananthim Assoc. Prof., Dept of Electric Pondicherry University

8/3/8/20

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