



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

Accredited "A" Grade by NAAC | 12B Status by UGC | Approved by AICTE

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SIST/IQAC/ACY/ATR-20-21/001

REPORT OF ACTION TAKEN ON THE MINUTES OF THE IQAC MEETING FOR THE ACADEMIC YEAR 2020-2021

Sl. No	Agenda Item	Action Taken
1.	Academics	<ul style="list-style-type: none">• The BOS of individual departments collectively summarized the feedback and revisions/updates are made every 6 months.• Syllabus revision was carried out with the approval of the Board of studies and the Academic council.• Steps were taken to put into practice the examination reform policy of AICTE which recommends a shift in traditional practices of curriculum design, education delivery and assessment. Assessment methods which measure the achievement of the desired learning outcomes, focusing on assessment of higher order cognitive skills like critical thinking and problem solving skills were followed, particularly for the Engineering programs.• Students were provided opportunity to enroll in virtual mobility programmes as we are not able to send our students on Mobility Programmes physically to Universities abroad, due to Pandemic. The International office facilitated both inbound and outbound virtual exchange programmes, through which students pursued courses involving transfer of credits with no additional fees.• Nine faculty induction programs were conducted and special focus was given to sensitization programs on Universal Human Values and ethics.• Feedback taken from various stake holders was analyzed and the following actions were taken:<ul style="list-style-type: none">➤ Based on the experts' suggestion UHV included as a compulsory subject in the Third/fourth semester for all students.➤ 54 entrepreneurial ventures were registered through TBI, 19 incubatees were indentified and encouraged for product development and 8 student projects funded through TBI.➤ Credits were awarded to the online certification courses and online internships from the academic year 2020-



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		<p>2021. Students are given opportunity to gain additional credits through MOOC.</p> <ul style="list-style-type: none">➤ Based on the result analysis, Root Cause Analysis was done to identify the reasons for consistent poor performance of students.➤ 50% weightage for theory and 50% weightage for laboratory was newly introduced for subjects like Java Programming, Digital Image Processing for real time applications and Machine Learning Techniques.➤ Undergraduate Computer Science Engineering programmes with the following Specializations were introduced:<ul style="list-style-type: none">✓ BE CSE with specialization in AI✓ BE CSE with specialization in IoT✓ BE CSE with specialization in Cyber Security✓ BSc with specialization in AI and ML➤ Departments conducted hackathons, coding competitions, project exhibitions.➤ Design thinking and Innovation course was introduced for all branch of students➤ Courses on Green Technology, Smart materials for Industries are introduced. Course contents on Medical Robotics and wearable systems for healthcare were modified <ul style="list-style-type: none">• With the objective of introducing and implementing the New Education Policy 2020, four Awareness Programs were conducted.• Program attainment levels were revised for some of the programs based on the overall performance of the Students.• To improve the effectiveness of the online teaching and to provide seamless learning , video lectures were uploaded in our official YouTube Channel and virtual lab facilities were upgraded.• Experts from Industry are invited to the campus to deliver talks on latest developments that take place in the industry.• Sathyabama Labview Academy Programme is established in association with National Instruments.• E-Content was developed for various courses and uploaded in the Institution's Learning management System.
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2.	Academic Research and Outreach Activities	<ul style="list-style-type: none">• More publications are made in Scopus and Web of Science indexed journals and in high impact factor journals.• Publications in the Journals with high impact factor has increased into two fold. The Institution has made 289 High Impact publications during the period.• Scientific publications of the Institution have been indexed by Nature Scientific Index.• 105 design patents and 3 product patents were granted and steps were taken to license the patents.• Proposals from different departments and research centres were assessed for releasing the Seed fund.• Rs. 3.82 crore with 361 investigators was approved under seed fund grant for the academic year 2020-2021. • Innovative ideas that provide solutions to the societal problems were funded. Faculty members and students were provided seed fund to develop products and as an outcome 15 products are now ready for commercialization.• Col. Dr. Jeppiaar Research Forum was initiated to facilitate knowledge sharing on thrust areas of research. The forum creates awareness on the advances in research and development activities happening around the world.• 38 FDPs, workshops, short term Courses, Faculty Induction Programs were organized for all Teaching and Non teaching staff. Programmes on Research methodology, Entrepreneurship, IPR and online teaching tools were conducted.• Erasmus Plus agreements have been signed with Transilvania University of Brasov, Romania and Wszechnica Polska University in Warsaw, Poland for executing funded student and staff mobility programmes.• The Institution has organized an international conference with MAHSA University, Malaysia.• The following centers were targeted further to work towards<ul style="list-style-type: none">✓ SDG 3 – Centre for Drug Discovery✓ SDG 14 – Centre for Ocean Research✓ SDG 13 – Centre for Climate Change Studies • International fellowships were received by the Research and Academic faculty.
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	<ul style="list-style-type: none">• Twelve of our Dental students have received the TATA trust fellowship worth of 15,00,000 to pursue their studies.• Industry experts were involved in handling courses for Embedded and IOT, Artificial Intelligence and Machine learning, Data Science, Internet of Things, Artificial Intelligence and Robotics, Block chain Technology and Cyber Security, through blended mode.• Online workshops, training programmes and hands on sessions on latest technologies were conducted.• The Centre for skill development has conducted 22 programmes on various fields and nearly 3000 students were benefitted from the skill development programmes.• The Institution has initiated the process of obtaining CDIO membership.• Got approval from UGC for starting 10 UGC NSQF skill-based programs for the benefit of our own students and outsiders.• Semester Abroad Programmes and internships were carried out through virtual mode.• Six FDPs on assessment tool and course module creation in LMS were organized for the teaching and technical staffs.• MoUs Initiated:<ul style="list-style-type: none">• MoU initiated: 11 MoUs were initiated with various industries• MoUs Signed: 32 (Both National and International)• In order to recognize and motivate faculties who have published articles in journals with high impact, the Board of Management has consented to confer Publication Awards on Teacher's day celebration.• Staff Excellence award was accorded to faculty members who showcased excellence in overall performance.• Sathyabama Score (SScore), a comprehensive performance evaluation system to evaluate the quantitative and qualitative aspects of performance of faculty was introduced.• Sensitization Workshop on Revised Accreditation Framework of NAAC was organized for faculty members.• Attracted International students and researchers to promote internationalization.• Joint International Webinars, Faculty Development programmes and Workshops were organized in association
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		<p>with partnering Universities in Brazil, USA, UK, Malaysia, Indonesia and Ethiopia.</p> <ul style="list-style-type: none">• 36 faculty members have been invited by our partnering Institutions as Speakers for International Conferences conducted in virtual mode.
3.	Placement	<ul style="list-style-type: none">• Placement training and Recruitment for the academic year 2020-2021 were conducted by virtual mode.• The frequency of soft skill training is increased to once in a fortnight for all the third year and final year students.• The placement for 2020 graduated students has crossed 2162 numbers through physical and virtual mode.• Centre for Professional and Career Advancement was established. Certification courses on Artificial Intelligence and Data science were conducted online.• 21 Programs and activities were conducted in the Centre for Professional and Career Advancement.• Various activities related to Make in India, Skill India and Swachh Bharath were initiated.• Student's participation in events like HackerEarth, Codechef, HackerRanker are made mandatory.• Students are encouraged to create Github repositories.
4.	Ranking and Accreditations	<ul style="list-style-type: none">• The Institution has participated in NIRF, ARIIA, Times and QS Rankings & went through the evaluation process for the Grant of 12B Status by UGC.• National Institutional Ranking Framework (NIRF) for the year 2021 has ranked the Institution in 40th position among the Universities in India.• The Institution has been ranked among Top 5 Private Institutions in India by ATAL Ranking of Institutions on Innovation Achievements (ARIIA) for the year 2020.• Sathyabama's overall position is 601-800 among the world Universities according to the Times Higher Education Impact Rankings, 2021• According to QS Asia University Rankings, 2021 the Institution Ranked between 301-350 position• Recognizing the significant contribution of the Institution towards Reducing inequalities (SDG 10), Climate action (SDG 13) and Partnership for goals (SDG 17), it is ranked in



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		<p>201 – 300 positions among the Universities worldwide and ranked in 301-400 position for SDG 01 – No Poverty.</p> <ul style="list-style-type: none">• Sathyabama is placed in 51-55 position among the Indian Institutions by QS India Rankings 2020.• Times Higher Education has ranked Sathyabama among the top Institutions worldwide. It is also been placed in good positions in the Times Higher Education's Subject Ranking for Engineering and Physical Sciences, Emerging Economies Universities Ranking and Young Universities Ranking, for the year 2020. <p>The following are the Rankings of the Institution at national level for the year 2020:</p> <ul style="list-style-type: none">• India Today - 23rd position among the Top Institutions in India• Times Engineering - 3rd rank among the Top Private Engineering• Institutions in India and 11th rank among the top Engineering Institutions in India• The WEEK Magazine - 9th position among the Universities in India and 5th among the Private Universities in south zone• Three programme, B.E (CSE), B.E (EEE), B.Tech(Biotech) got accredited by NBA.• Preparation towards NBA Accreditation for B.E(ECE), B.E(Mech), B.E(Aero), B.Tech(Biomedical), B.Tech(IT), B.Tech(Chemical), B.E(Civil) and MBA programs has begun and the preparation of Self-Assessment Report (SAR) for NBA accreditation was initiated.
5.	Infrastructure	<ul style="list-style-type: none">• Laboratory infrastructure was setup for Cloud Computing, Edge computing, Data Science, Virtual Reality.• Confocal Raman Microscope is purchased for the Research Centre• Established Remote Labs to teach experiments to the students through which they can access real hardware present in the lab and perform experiments from anywhere in the world.• Centre for Excellence for Embedded and Image processing was setup• A solar panel for power generation is constructed in the administration block and two other classroom blocks.• Construction of an open-Air Theatre with a seating capacity of 1000, which will be suitable to host various intra and inter University programmes, was started.



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		<ul style="list-style-type: none">The Institution has subscribed for Knimbus 3.0, a platform that allows our Institution to build and customise our own online library. Students and faculty are provided 24/7 remote access to library e- resources.
6.	ODL Programmes	<ul style="list-style-type: none">Distance Education Bureau (DEB) of UGC has given approval for five Online Degree Programmes. BBA, BCOM, MBA, M.Sc MATHS and MA- English are the Programmes and we are one among the 44 Institutions all over India to get the approval.
7.	Audits	<ul style="list-style-type: none">Internal & External Academic and Administrative Audit were conducted for the departments in April 2021, to evaluate the quality processes and standards based on predetermined benchmarks and take corrective actions.The Institution underwent the ISO recertification audit through virtual mode.
8.	AQAR 2019 – 20	<ul style="list-style-type: none">Annual Quality Assurance Reports for the year 2019 – 2020 was drafted as per the format of the NAAC, which was verified, approved and uploaded in the NAAC website.
9.	Notice	<ul style="list-style-type: none">The newly recruited faculty members have registered for Ph.D. Departmental activities including the achievements of both students and faculties are displayed in the notice boards kept in the prominent places in the Department.Report on all the departmental activities, events, FDPs, Seminars and Orientation program was submitted to IQAC office.
10.	Discussions and Orientations	<ul style="list-style-type: none">Discussions were held regarding the preparedness towards the reforms outlined under the NEP and ideas were documented.Certificate programs for students, identification of the minor, major and honors courses for slow learners and advanced learners were discussed.Orientation program was conducted to the departmental IQAC Coordinators on revised AQAR format and SOP of NAAC for the documentation of 2020-2021 AQAR.Orientation program was conducted to all the teaching faculties regarding the updated NAAC manual, revised SOP



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		<p>of NAAC and preparation of Self Study Report for the upcoming NAAC.</p> <ul style="list-style-type: none">• Discussions to promote startups, venture into developing new products and initiate commercialization in line with AICTE's National Innovation and Startup Policy (NISP), were held.
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Dr. Anima Nanda
(IQAC- Coordinator)
Chancellor)

Dr. T. Sasipraba
(Vice-