



# SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY  
(DEEMED TO BE UNIVERSITY)  
CATEGORY - 1 UNIVERSITY BY UGC



## CONVOCATION REPORT 2024

18 August 2024



*With the Blessings of*



**Col. Dr. JEPPIAAR, M.A., B.L., Ph.D.**  
**Founder Chancellor**



**Dr. MARIAZEENA JOHNSON B.E., MBA., M.Phil., Ph.D.**  
**CHANCELLOR**

*We thank Parents, Teachers, Students, Industries,  
Government Organizations, Research Organizations for  
supporting us throughout our journey...*





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# 33<sup>RD</sup> CONVOCATION

# GOLD MEDALISTS 2024

## ENGINEERING, DESIGN AND ARCHITECTURE



**Shreenithi T V**  
B.E. Computer Science  
and Engineering



**Gowthami Vinod Katkar**  
B.E. CSE with  
Specialization in IoT



**Kannan R**  
B.E. CSE with  
Specialization in AI



**Sanne Hruthika Shetty**  
B.E. CSE with Specialization  
in Data Science



**Soumyadeep Das**  
B.Tech. Information  
Technology



**Sharmila. V**  
B.E. Electronics and  
Communication Engineering



**Vishnupriya. S**  
B.E. Civil Engineering



**Prabavathi. B**  
B.E. Electrical and  
Electronics Engineering



**Sai Sasika M**  
B.E. Aeronautical  
Engineering



**Hariprakash. T**  
B.E. Mechanical  
Engineering



**Krithika. R**  
B.E. Mechatronics



**Ignatius Raja Nadar**  
B.E. Automobile Engineering



**Manasa. V**  
B.Tech. Biomedical  
Engineering



**Juana Darlene Virgit. J**  
B.Tech. Biotechnology



**Rakshana. R**  
B.Tech. Chemical  
Engineering



**Kiruba Shankari. M**  
B.Arch. Architecture





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# 33<sup>RD</sup> CONVOCATION GOLD MEDALISTS 2024

ARTS & SCIENCE, DENTAL, LAW, AND PHARMACY



**Hemadarshine. A**  
B.Com. Bachelor of  
Commerce



**Suganya. R**  
B.D.S. Bachelor of  
Dental Surgery



**Srivani V**  
B.Sc. Physics



**Sathvika S**  
B.Sc. Chemistry



**Kanishkaa. S**  
B.A. English



**Jothika. A**  
B.Sc. Mathematics



**Parkavi D**  
B.Sc. Fashion Design



**Ranjini**  
B.Sc. Bioinformatics  
and Data Science



**Poomuhi D S**  
B.Sc. Clinical Nutrition  
& Dietetics



**Sreelekha. T**  
B.Pharm. Pharmacy



**Sripriya S**  
B.Sc. Computer Science



**Aarthi N**  
B.Com. Financial  
Accounting



**Joshua Immanuel L**  
B.Sc. Psychology



**Mohak Udiniya**  
B.Sc. Biotechnology



**Amitha C U**  
B.Sc. Microbiology



**Jainey. J**  
B.B.A. Bachelor of Business  
Administration



**Priyadharshini L**  
B.Sc. Visual  
Communication



**Arockiya Princy A**  
B.Sc. Medical Laboratory  
Technology



**Abisheka.S**  
LL.B



**Deepika. N**  
B.A.LL.B  
(Honours)



**Shwetha M**  
B.Com.LL.B  
(Honours)



**Shylashree. S**  
B.B.A.LL.B  
(Honours)



**Sukriya R**  
M.B.A. Master of Business  
Administration



**Keerthivasan S**  
M.Sc. Visual  
Communication



**S Bharishi**  
M.Sc. Medical Biotechnology  
and Clinical Research



**Bakyparasanna S**  
M.Sc. Chemistry



**Anuradha Sharma**  
M.Sc. Physics



**Meenakshi K**  
M.Sc. Bioinformatics  
and Data Science



**Musammil A**  
M.Sc. Computer Science





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## *33rd Convocation Report*

Good Morning. Honourable Chancellor Dr. Mariazeena Johnson, Respected President Dr. Marie Johnson, Respected Chief Guest Shri. Ashwin Raja, Beloved Vice Presidents Mr. Arul Selvan, Mrs. Maria Bernadette Tamilarasi, and Ms. Maria Catherine Johnson, Pro Vice Chancellor, Registrar, Director-Research, Director-Administration, Controller of Examinations, Deans, Heads, Distinguished Guests, Faculty, Graduates, Staff, Parents, and Media, Greetings and welcome to the 33rd Convocation of Sathyabama Institute of Science and Technology. I consider it a great honour to welcome everyone to this Convocation Ceremony.

We are delighted to have Shri. Ashwin Raja, Co-Founder & CTO, Motorq, USA, as the Chief Guest for the 33rd Convocation Ceremony. We are greatly honoured by your presence here on this occasion, sir.

3508 undergraduates, 644 postgraduates, and 122 Doctorates get their degrees during this convocation ceremony. Special appreciation to the 45 Gold medal recipients for their dedication and consistent efforts during the course of study.

It is my privilege to present the Annual Convocation Report 2024, which reflects our Institution's progress over the last academic year.

Sathyabama Institute of Science and Technology has grown into a top-tier, multidisciplinary institution that excels in both teaching and research. The dream of our visionary founder Col. Dr. Jeppiaar, to make Sathyabama a premier institution in India has come true. With the blessings of our Founder Chancellor Col. Dr. Jeppiaar, our Madam Dr. Remibai Jeppiaar, and the dynamic leadership of Chancellor Dr. Mariazeena Johnson, President Dr. Marie Johnson, and the Vice Presidents, Sathyabama is successfully marching forward with greater achievements.



## ACCREDITATION, RECOGNITION AND HONOURS

Sathyabama Institute of Science and Technology has been accredited 'A++' Grade by the National Assessment and Accreditation Council (NAAC) in its third cycle. It is a testament to its excellence in various aspects, such as teaching, research, infrastructure, and student support services.

Consequently, the Institution was awarded Category-1 status by the University Grants Commission, which further strengthened Sathyabama's position as a top-tier institution in India. This recognition is based on the institution's outstanding performance and high score of 3.73 in the NAAC assessment, indicating its adherence to rigorous academic standards and continuous improvement efforts.

Our Institution is in the process of transition from ISO 9001:2015 standard to Educational Organization Management System standard(s) EOMS 21001:2018 by DNV to improve the quality system and learner's experience.

All Eligible Programmes have been accredited by the National Board of Accreditation (NBA) and some of our Programmes have been Accredited by Accreditation Board for Engineering and Technology (ABET), USA.

Sathyabama is an active participant in various Faculty Development, Student Development, Institutional and Research Development schemes of AICTE, such as YUVAK, PRAGATI, SIH, PARAKH, KARMA, AICTE-SPDP, SANKALP and KAPILA

Sathyabama's consistent presence and recognition in various prestigious Rankings affirm its position as a reputed Institution dedicated to academic excellence, research impact, and contributions to global sustainability goals.

According to the NIRF (National Institutional Ranking Framework) 2024, Sathyabama is placed in the 51st position among the universities in India and has been ranked one of the top 100 universities in India for nine consecutive years.

I'm delighted to inform that Sathyabama is one of the 46 Indian institutions positioned in the QS World Rankings 2025 and one among the 122 Indian institutions ranked in the Times Higher Education World University Rankings 2025.



- Sathyabama is ranked in the 1001–1200 position by the QS World University Rankings, 2024. According to the QS Asia University Rankings for 2024, it is ranked in the 401-450 position
- The Institution is ranked in 106 position in Southern Asia by QS Asia University Rankings for the year 2024
- The Institution has received a Five-Star rating from QS Stars
- The Institution is ranked in the 1201–1500 band in the Times Higher Education World University Rankings 2024, and with respect to the Times Higher Education Asia University Rankings 2023, it is ranked in the 501–600 band
- Sathyabama is ranked in the 401–500 band in the Times Higher Education Young University Rankings for the year 2024
- The Institution is ranked in the 601–800 band in the overall Times Higher Education Subject Rankings, 2024 for Clinical, pre-clinical & Health, ranked in the 801–1000 band for Computer Science, ranked in the 801–1000 band for Engineering & Technology, ranked in the 801–1000 band for Life Sciences, ranked in the 801–1000 band for Physical Sciences

Sathyabama is ranked in the 601–800 band in the overall Times Higher Education Impact Rankings, 2024. With respect to SDGs individually following are the ranks secured by the institution in the Times Higher Education Impact Rankings, 2024:

- SDG 1 No Poverty: 401-600 rank
- SDG 3 Good Health and Wellbeing: 801-1000 rank
- SDG 6 Clean Water and Sanitation: 301-400 rank
- SDG 7 Affordable and Clean Energy: 101-200 rank
- SDG 9 Industry Innovation and Infrastructure: 301-400 rank
- SDG 10 Reduced Inequalities: 301-400 rank
- SDG 13 Climate Action: 301-400 rank
- SDG 14 Life Below Water: 101-200 rank
- SDG 15 Life on Land: 90th rank
- SDG 17 Partnership for Goals: 301-400 rank

## CURRICULUM DESIGN

As per our recently implemented academic regulations, students can receive credits for their national and international achievements, startup endeavours, community engagements, skill development programs, and co-curricular and extracurricular activities that offer value to their education. Additionally, the regulations make it easier for prestigious International Universities to participate in dual degree and twinning programs.

Conforming with the NEP and the UGC National Credit framework, the Multiple Exit option is facilitated for integrated programmes. UG degree will be conferred for exit after 3 years, UG degree with honors will be conferred for exit after 4 years and integrated PG degree will be conferred for exit after 5 years.

We have introduced Honors degrees in the following programmes:

- B.Sc Computer Science
  - B.Sc Bioinformatics and Data Science
  - B.Com
  - B.Sc Computer Science with AI&ML
  - B.Sc Physics
  - B.Sc Chemistry
  - B.A English
- 
- Through Future Skills Program of NASSCOM and MEITY, around 3000 students have completed certifications in diverse technologies. Every certification program adheres to the National Skills Qualification Framework (NSQF) and National Occupational Standards (NOS)
  - BA (English) and BSc (Mathematics) are the new online Degree programmes approved by the UGC this year
  - The new programs Introduced this year include MCA, Integrated M. Sc. Computer Science, Bachelors and Masters in Social Work (BSW, MSW), B.Sc in Cyber Forensics and M. Pharm with Specialization in Pharmaceutics and Doctor of Pharmacy (Pharm. D)



- Sathyabama has obtained a campus-wide license for MATLAB, allowing researchers, staff, and students to integrate theory and problem-solving ideas with a range of engineering disciplines. All students, staff, and researchers get unrestricted access to the 120 MATLAB and SIMULINK tools as well as online instructional resources which they can use on any computer anywhere
- Nearly 12,000 students have earned over 37,000 Certifications throughout the 2023–2024 Academic year. Very glad to mention that Sathyabama is one among the top three listed Institutions for MATLAB usage
- Unity Academic Alliance program has been initiated which provides training on the Unity engine for the students and staff on extended technologies
- Through the MoU we have with Service Now, 172 students received training and certification in this technology, leading to placement with higher packages

## **RESEARCH AND DEVELOPMENT**

The dedication to research and innovation positions Sathyabama as a key player contributing to quality research for the benefit of the humanity.

- The Institution has acquired 51 New projects worth 20 crores this year
- A European Union-funded ERASMUS Capacity Building Project titled “Developing Information, Research and Digital skills for Business, Innovation and Entrepreneurship in India, Sri Lanka and Nepal (NSIS)” has been sanctioned for 8 Lakhs Euros, in which Sathyabama is one of the 14 coordinating Institutions across the world
- Scientists from the Centre for Molecular and Nanomedical Sciences have identified novel small molecules with anticancer and anti-angiogenesis properties against breast cancer and patented it
- Indian System of Medicine Lab at the International Research Centre is developing Hepatoprotective drugs with the funding support of UNANI-CCRUM , Ministry of AYUSH

- The researchers from MAKERSPACE have developed a biomimetic glue for effective osteointegration in trauma patients funded by the Indian Council of Medical Research, Govt. of India. The work has been filed as a patent in collaboration with the ICMR as a co-applicant. The same group developed a 3D-printed hydrophobic coated implant for temporary implant applications for which patent has been filed with ICMR
- Out of 72 shortlisted applications from India, two Scientists from our Institution received the prestigious fellowship from the Indian National Science Academy (INSA)
- The Centre for Drug Discovery and Development and Centre for Climate Change Studies has been sanctioned a grant of 1.12 crores from ICMR, Govt of India for pursuing research on Exploring temperature and salinity-tolerant mosquitoes along the coastal Tamil Nadu, and its influence on mosquito-borne disease dynamics. The Centre for Drug Discovery and Development in association with the National Centre for Polar and Ocean Research, MoES, Govt of India has developed and maintaining a consortium of 1000+ rare bacterial and actinobacterial forms from the Antarctic Ocean, Arctic and the Himalayan Glaciers for exploring their bioprospecting applications
- Scientists of the Centre for Climate Change Studies have discovered a feather star-associated novel shrimp species from Lakshadweep, which is new to the world. The species is named “*Periclimenes pittii* sp. nov” in honor of Pitti Island, one of the protected areas of Lakshadweep
- The Regeneration Stem Cell Biology Lab of the Centre for Molecular and Nanomedical Sciences has Identified 50 novel microRNAs in the earthworm model system and reported in the journal ‘Gene’
- Scientists from the Centre for Nanoscience and Nanotechnology and Centre of Excellence for Energy Research have developed hard protective coatings with low-friction and wear resistance that can withstand high-temperature (900°C) environment suitable for space and defence application
- Our faculty members and scientists have been awarded fellowships and grants such as the Erasmus Plus grant, ASEAN Fellowship, CV Raman Fellowship, TWAS /HPSR Fellowship, HSTP Fellowship, ICMR DHR, DST-OVDF Fellowship, TARE fellowship, European Research Council / EPSRC Grant, Takeda Science Foundation Fellowship, Global Doc Mobility Fellowship & HRDC PDF, Korea Research Fellowship etc



- It is my pleasure to mention that Sathyabama College of Nursing is developing a competency-based training manual for Community Health Officers in Health and Wellness Centres in Odisha state. This initiative is being undertaken for the Directorate of Nursing, Department of Health and Family Welfare, Government of Odisha. The project is technically supported by the Health System Transformation Platform, New Delhi and is funded by ACCESS Health International, USA
- Sathyabama has received research scholars from developing countries under various schemes like DBT-TWAS, ISRF, DST-NAM S&T, CV Rama Fellowship and ASEAN fellowship to pursue part of their research at our Institution

## INNOVATION ECOSYSTEM

- Sathyabama Technology Business Incubator established with the support of DST – NSTEDB has been recognized as one of the Top 5 incubators by STARTUP TN consecutively for the last 3 years and received a scale up grant for the incubators. It has been categorized as a Matured Incubator by the Tamil Nadu Startup and Innovation Mission (TNIMM)
- Sathyabama TBI has been supported under the Startup India Seed Fund Scheme, DPIIT, Ministry of Commerce, Govt. of India with a funding of Rs. 5.25 Crores to support startups and has received Rs. 1.80 crores in the last year
- CORAL – A Blue Economy Cohort is launched for the acceleration of startups with STARTUP TN
- DST-TIFAC supported TAP Centre has been established at Sathyabama Research Park
- Sathyabama IIC was selected under MENTOR-MENTEE PROGRAM FROM AICTE-MIC and we have mentored 5 Institutions under this program successfully.
- A woman Entrepreneur, an incubatee at Sathyabama Innovation Council is funded by MSME under the MSME women Hackathon 3.0 initiative.

- Our Institution has been selected by AICTE as a Mentor Institution under the Margdharshan scheme, which would help several rural Engineering Institutions in Tamil Nadu get ready for Accreditation and NIRF rankings
- Department of ECE and CSE have received a grant of Rs.4 Lakhs sanctioned under Yukti Innovation challenge Program of the Ministry of Education Innovation Cell
- To foster a culture of innovation and entrepreneurship among school children, a School Innovation Council programme, an initiative of the Ministry of Education's Innovation Cell and AICTE was hosted by Sathyabama. Many schools were mentored by our faculty members and our start-ups

## **PUBLICATIONS AND PATENTS**

- Having around 20,000 research publications in reputable journals indexed by Scopus and Web of Science shows the institution's commitment to producing high-quality research across various fields. The H-index of 107 and 91 in Scopus and Web of Science respectively, reflect both the quantity and citation impact of the published work
- The Centre for Drug Discovery and Development in association with VivagenDx Labs carried out a Technology Transfer on “DeepTech Enabled Vaccines and Immunotherapies through rational Protein Engineering” and the Department of Physics transferred a technology “Iridium Ternary Alloy Composition” to Astromeda Space Private Ltd at the First Anniversary of Tamilnadu Technology Hub (iTNT) in the presence of Dr. Palanivel Thiagarajan, the Honorable Minister for IT and Digital services, Govt. of Tamil Nadu
- Scientists of the Centre for Nanoscience and Nanotechnology have developed a novel protocol for the development of high-quality reduced graphene oxide (rGO) and triple metallic nanocomposites (Ag-Cu-Ni) and is under the process of Technology Transfer with the Industries
- Our innovative ideas and research findings are translated into tangible solutions that benefit society. 341 patents were granted and 593 patents were published, in total. Last year 31 patents have been granted and 170 patents have been published, which include design patents, German and Australian patents



- Department of Electronics and Communication Engineering in collaboration with CMC, Vellore has successfully developed a device to diagnose arthritis at its early stage. This technology is transferred to M/s Ideal Sensors, Chennai
- Many of our faculty members are serving as Reviewers of AICTE books for Engineering and Diploma

### **INFRASTRUCTURE AND FACILITIES ESTABLISHED**

- The National Facility for Coastal and Marine Research (NFCMR) has been established at Sathyabama Institute of Science and Technology. It is first of its kind facility for nurturing blue biotechnology research in the country and fostering interdisciplinary collaboration. Dr. M. Ravichandran, Hon'ble Secretary of MoES, declared it a national facility by signing an MoU and exchanging it with our Hon'ble Chancellor. This facility is equipped with an array of specialized laboratories like Bio Visualization Lab, Marine Metabolic Engineering Lab, Cellular Agriculture Lab, Molecular Imaging Hub, Mass Spectrometry Labs (GC-MS/MS and LC-MS/MS), Water Quality Analysis Lab, Toxicology Lab, Underwater Monitoring Lab, Next Generation Sequencing Hub, and Microbiome Lab required for advanced research in marine science and biotechnology. Livelihood and Skill Development Facility is also established to conduct training programs for local communities on marine resource management and sustainable livelihoods
- Applied Phycology Lab, Halophytes Conservation Lab, and Biomolecules Separation Lab were established in the Centre for Ocean Research to upscale the Blue biotechnology research. Downstream Processing Facility is created for the production of algal-based natural products
- Advanced GeoEnvironmental Lab was set up in the Centre for Earth and Atmospheric Sciences (CEAS)
- Molecular Theranostics lab has been set up in the Centre for Laboratory Animal Technology and Research to help the researchers to perform genomic expression studies to make artificial tissues or scaffolds and organoid models which helps in Regenerative Medicine

- Biomechanics lab was established in the department of Biomedical Engineering
- In the Centre for Remote Sensing and Geoinformatics, an advanced Geo-Visualization Lab has been set up
- Bioprinter facility has been established in the Centre of Excellence for Additive Manufacturing and the research team is working on developing bio-ink for critical bone injury, disease modelling and organ development
- The Flow Cytometry Research Facility (CytoFLEX- Beckman Coulter) is set up at the Center for Molecular and Nanomedical Sciences to carry out research on cancer biology and stem cell biology
- The Centre for Drug Discovery and Development has established a state-of-the-art FACS Multi-Omics Core Facility, Mass Spectrometry Facility, Vector-borne disease lab and Translational Immunogenomics Unit to strengthen its drug discovery and translational biomedical research in association with Hospitals and clinical research centers
- A Centre for Modern Organic Agriculture Research (CMOAR) is established in association with the Association of Agricultural Technologists of South East Asia (AATSEA) and King Mongkuts Institute of Technology Ladkrabang, (KMITL), Thailand at Centre for Drug Discovery & Development
- Nikon Super Resolution Confocal microscopy facility was installed at the Centre for Molecular and Nanomedical Sciences. It is India's first confocal installation with NSPARC technology for achieving XY-100nm and Z-300nm resolution
- ImmunAIM, a Multi-dimensional Immunomics Platform, a joint Initiative of VivagenDx Labs and Sathyabama is successfully used by clinicians in many leading hospitals

- A 3D Organoid Culture Facility was established at the Centre for Molecular and Nanomedical Sciences
- An Innovation Hangar has been established for the students of the School of Mechanical Engineering and the School of Electrical and Electronics Engineering to foster creativity and innovation
- Advanced Engineering Workshop and a Drone Lab has been set up in the School of Mechanical Engineering
- PCB Printing and Prototyping facility has been established in the School of Electricals and Electronics Engineering
- Ex-vivo organ culture facility was established at the Centre for Molecular and Nanomedical Sciences to study drug toxicity using organ models

### **FACULTY APPRECIATION AND RECOGNITION**

- Our Management has recognised and appreciated the faculty members and scientists for their contribution to academics, research and innovation on Teachers Day. 235 faculty members have been appreciated with cash awards worth 1 crore rupees and a certificate of appreciation for publication in journals with high impact factor, highest citations, funded projects, funded fellowships, start-ups who raised funding from external sources, NPTEL recognition, and YouTube lectures with more views etc
- Our Institution has provided a seed fund worth 1.5 crore rupees for the deserving research and innovation proposals submitted by the faculty members and students
- Two faculty members from the School of Computing has completed their Post-Doctoral Fellowship at the, UNIFACVEST, Brazil, South America



- One professor from the School of Computing has completed his Post-Doctoral Fellowship at the School of Computing and Informatics, University of Louisiana at Lafayette, USA
- Our Faculty members and Scientists have delivered keynote addresses and special addresses at national and international conferences organized by the national and international Universities
- Many of our faculty members have presented research papers at national and international conferences and won best paper awards
- 50 faculty members have obtained various NPTEL recognitions this year
- A Scientist from the Centre for Nanoscience and Nanotechnology has received BRNS Young Scientist Research Award from the Department of Atomic Energy
- Four of our Scientists and Faculty members were recognized as the Top 2% Most Influential Scientists by the Stanford University Survey 2024
- To update their skill and knowledge, many of our faculty members have participated in faculty development programmes organized by Universities and industries across India and learning through various MOOC platforms like Swayam, Swayam+ and Coursera

## STUDENT PROGRESSION

- The students of the EEE department have indigenously developed an electric Go-Kart vehicle to take part in Go Kart competitions which has improved performance compared to conventional ones
- 12 students from the Department of EEE have received the “PUDHUMAI PENN” Scholarship from the Government of Tamil Nadu.
- A student of IV Year Electronics and Communication Engineering attended and delivered a talk at The United Nations Human Rights Council Meeting at the UN Global Assembly, Switzerland from 11th March - 25th March 2024
- Five of our BBA (Inclusive Students) who have been given Full scholarship by our Management have cleared CAT Examination and they are selected to pursue their higher studies in IIM Ahmedabad, FMS Delhi and IIM Indore

- One differently abled student from B.COM, Batch 2021-2024 have won 1 Gold Medal and 2 Bronze medal in 2024 National Para Swimming Championships held at Madhya Pradesh, Gwalior between March 29 to March 31, 2024
- A student from II Year BBA has undergone her Semester Abroad Programme at Powiślański University, Poland through Erasmus Plus Mobility Programme, a Programme funded by the European union
- Our students from different departments have been to foreign universities that includes University Malaysia Pahang, Malaysia, University Putra Malaysia, Malaysia, University Technology MARA, Malaysia, James Cook Univeristy, Singapore, National University of Singapore, London School of Economics and Political Science in London, UK, LeTourneau University, USA and University of New South Wales, Australia to study one semester or to undergo Internship
- Students from STIKI Malang, Indonesia have completed their Semester Abroad Programme in the School of Computing and School of Science & Humanities at our Institution from June 2023 - October 2023
- 29 students from Universiti Tecknologi Malaysia (UTM), Malaysia have come to our institution on an Academic and Cultural Exchange Programme from 5th March 2024 - 14th March 2024, organised by the Centre for Academic Partnership and International Relations
- Many of our students enroll for higher studies at universities across the world. This year 632 students have enrolled for higher studies at various foreign Universities
- The Centre for skill development has conducted 9 programmes on various fields and nearly 700 students benefitted from the skill development programmes
- Institution has provided 100% Scholarship for around 700 meritorious students coming from economically weaker sections of the society
- Student club of Sathyabama have conducted events and competitions for students that facilitate peer-to-peer learning. Our students have participated in different events organized by other Institutions and won various prizes

- 11 new student development clubs such as Fashion, Book, Gaming, Poetry, Fitness and Nutrition, Illustration and Art, Movies and Dramatics, Financial Management and Economic Analysis Clubs are added to the existing 39 Clubs, to cater the diverse interests of the students
- Our Institution band "Eternity" participated in the "TUNESMITH" competition and won 2nd prize with a Cash prize of Rs. 25,000 in March 2024
- One student from B.Sc. Psychology has secured the Best Student Award from the Tamil Nadu Psychology Association
- One of our students has won the Gold medal for the Best drill and the bronze medal in the 100m dash in the NCC Army cadet
- One student from the Department of Pharmacy has secured the first position in Essay Writing Competition conducted by the Indian Pharmacy Graduates Association

## **PARTNERSHIPS AND COLLABORATIVE ACTIVITIES**

- We have partnerships with around 200 Universities and Industrial organizations for academic and research collaboration
- 35 MoUs were signed with international Universities and Industries in the last year
- Sathyabama has signed Erasmus Plus agreements with Transilvania University of Brasov, Romania and Wszechnica Polska Academy of Applied Sciences in Warsaw, Poland, Powislanski University, Poland, Cukurova University, Turkey, Andolu University, Turkey, University of Craiova, Romania for executing funded student and staff mobility programmes
- Through staff mobility programmes our faculty members visit our partner universities across the world
- Two faculty members from the School of computing visited Cukurova University, Turkey under the KA107 Erasmus Plus Faculty Mobility Project funded by the European Union from 28th Oct 2023 to 5th Nov 2023



- One faculty from the School of Electrical and Electronics Engineering and one faculty from the School of Bio and Chemical Engineering have visited Cukurova University, Turkey under the KA107 Erasmus Plus Faculty Mobility Project funded by the European Union from 20th May to 24th May, 2024
- Four faculty members from the School of Computing visited MAHSA University, Malaysia, on Faculty Exchange Programme from 20th October 2023 to 31st October 2023
- One faculty from the School of Bio and Chemical Engineering and 1 faculty from the School of Electrical and Electronics Engineering have been to Universiti Teknologi Malaysia (UTM), Malaysia on a faculty exchange programme from 26th May 2024 to 4th June 2024
- Four Scientists from the Centre of Drug Discovery and Development visited Mahidol university, KMITL, and AATSEA Thailand from 2nd to 9th April 2024 for research collaboration
- One Scientist from the Centre of Excellence for Energy research visited Volgograd State University, Russia from April 01 to April 30 2024 for research collaboration
- One Scientist from the Centre of Excellence for Energy research visited Chulalongkorn University, Bangkok, Thailand during Feb 2024-March 2024 as a Visiting Professor
- One scientist from the Centre for Waste Management was invited to the 16th Geopolymer Camp, Geopolymer Institute, conducted by the Ralph Davidovits, at Campus Universitaire de Saint Quentin, University of Picardie, Saint Quentin, France, considering her extensive research on Geopolymers
- Dr. Angela Repanovici, Professor from the University of Brasov, Romania visited our Institution as a Visiting Professor through Erasmus Plus Staff Mobility Programme funded by the European Union from 4 February 2024 – 10 February 2024
- Three researchers from Myanmar Institute of Information Technology, Myanmar visited Sathyabama under the ASEAN-India Research Training Fellowship (AI-RTF) from February 2024 to July 2024

- Mr. S. Maheswaran, Senior Lecturer from AIMST University, Malaysia has completed his Research Fellowship sanctioned by ASEAN – India Science Technology Development Fund (AISTDF) through AI-RFT Scheme at our institution from January - April 2024
- Dr. Gobi Krishna Sinniah and Mrs Punithavalli Marimuthu from Universiti Teknologi Malaysia (UTM), Malaysia has participated in Academic and Cultural Exchange Programme from 5th March 2024 to 15th March 2024
- Dr. Luciano Nieddu from UNINT, Italy visited our Institution as a Visiting Professor through Erasmus Plus Staff Mobility Programme funded by the European Union from 12th July to 19th July, 2024
- The Department of Civil Engineering undertakes consultancy services to the Tamil Nadu Urban Finance and Infrastructure Development Corporation Ltd, which involves third-party appraisals of various infrastructure development projects of the State Government. Sathyabama has been nominated by the Tamil Nadu government as one of the institutions to monitor the quality of execution of various infrastructure projects
- A delegation from the United States along with the Governor of New Mexico, visited our Institution and signed an MoU with the State of New Mexico which will pave way for academic and research collaboration
- An MoU was signed with NITTTR, Chennai in the presence of the delegation from Africa, Nepal and Srilanka hosted by NITTTR

### **NOTABLE ACTIVITIES**

- A Scientist from the Centre for Drug Discovery and Development participated in the 1st Ever-Indian Winter Arctic Expedition in February 2024 organized by the National Centre for Polar and Ocean Research, Goa and funded by the Ministry of Earth Sciences (MoES), Govt of India. He is one of the 14 Scientific Members from our Country and the only member from our State of Tamil Nadu who visited the Ny-Alesund-the High Arctic Region to study Microbial Adaptations during Polar Nights
- Our scientist from the Centre for Climate Change Studies has been selected for the Two Month Marine Conservation Leadership Program to work at OMCAR foundation, Palk Bay on Seagrass Conservation and blue carbon
- Sathyabama is selected as the Nodal Centre for ISRO START PROGRAM

- Sathyabama's Maker Space Lab has developed a 3D-printed life-size lung model in association with Medway Institute of Pulmonology. The model was showcased at the inauguration of the Medway Institute of Pulmonology, which was highly appreciated by the honorable Tamilnadu health minister, Dr. Ma. Subramanian

## PROGRAMMES ORGANIZED

- The School of Computing organised the AICTE-Innovation Design and Entrepreneurship BOOT CAMP (IDE Boot Camp) on 4th and 5th April 2024. Sathyabama is one of the 15 nodal Centres in India. 263 teachers and students from schools across Tamil Nadu participated in the event. The boot camp aims to foster innovation and entrepreneurship and the experts from NEN Wadhvani foundation motivated the participants
- Centre for Remote Sensing and Geoinformatics (CRSG), as a Nodal Centre for Indian Institute of Remote Sensing (IIRS-ISRO) conducted 21 outreach programmes that benefited 378 students of Dept. of CSE & ECE
- Department of Electrical and Electronics Engineering, has successfully trained 240 students for various job roles under PMKVY 4.0, Pradhan Mantri Kaushal Vikas Yojana scheme governed by the National Skill Development Corporation(NSDC) of the Ministry of Skill Development and Entrepreneurship
- The Centre for Drug Discovery and Development has organized an ICMR DHR-sponsored workshop on "Flow cytometry and cell sorting for Clinical and Translational Research Applications" in which 30 Clinicians, Scientists, and Industrialists participated. Three MoUs were signed with three leading industry and clinical partners during this event
- The Centre for Drug Discovery and Development has conducted a series of Clinician-Academia-Industry Collaborative Focus Group Discussions on Translational Research and successfully gained 6 consultancy projects worth more than 30 Lakhs from industry and hospitals as an outcome of the discussions which includes consultancy on spatial genomics and spatial computing with Intel Corporation, USA
- A Three-day Indo-UK Expert Lecture Series: From Fundamentals to Frontiers: The Basics to Innovations Workshop Series on the topic "Exploring Human Tissue Culture in Aug 2023, in association with the researchers from the University of Westminster, UK



- Sathyabama in association with the Indian Immunology Society, VivagenDx Labs and Ramakrishna Medical Centre, Trichy commemorated the “International Day of Immunology - 2024” with Clinician-Academia-Industry Collaborative Panel Discussion on Translational Research in May 2024 on the Topic “Immunity Through the Ages: Navigating the Science of Aging and Immunology” with a special visit by international collaborator, Dr. James Marshall, Managing Director and Scientific Director, Superior A.R.T (Assisted Reproduction Technology), Thailand
- The Centre for Drug Discovery & Development has organized the ICIST the 11th Annual Conference of the Association of Agricultural Technologists of South East Asia (AATSEA) in Feb’ 24 with 110 participants from 11 countries
- The Research Centres have conducted more than 100 training, workshops and internship programs to more than 2000 students
- The Internationally renowned event “Human Library” was conducted in association with Human Library Denmark on 11th June, 2024
- Sathyabama hosted the first meeting of the INDOVATION Centre, Innovation Cell, Ministry of Education on 5th July, 2024. Around 50 Institutions participated in the round table meeting on TECHNOLOGY TRANSFER
- Centre for Quality Assurance and Non-Destructive Evaluation (CQANDE) in association with American Society for Non Destructive Testing conducts level based Skill Certification Programmes

## OUTREACH

- Scientists from the Centre for Nanoscience and Nanotechnology in association with the Department of Psychology have organized International Day of the Girl Child in October 2023 by visiting government school at Kalpakkam, Tamil Nadu to spread the sense of awareness among the girl children for their safety
- The Centre for Waste Management is involved in a project in which the biodiesel produced from the waste cooking oil is used for operating pump sets and Gensets in Aadhanur, Eachampoondi and Periakottagam villages in Cuddalore, Kattumannarkoil. The people of Aadhanur village were trained in the preparation of biocompost from market vegetable waste and agro waste

- A digital platform named “Jawadhu Fresh” ([www.jawadhufresh.com](http://www.jawadhufresh.com)) has been developed by a team of faculty members from the School of Computing, the School of Bio and Chemical Engineering and the School of Management Studies to support the tribal community of Jawadhu Hills, Vellore District to sell their agricultural produces such as millets, honey, medicinal plants and the value added products. Skill development Programmes were conducted for the tribal and the scheduled caste women in the Vellore District and Cuddalore District
- Our students and staff regularly visit the villages adopted by our Institution under the Unnat Bharath Abhiyan Scheme (UBA) of the Government of India to help identify their problems and solve them through technological interventions
- Awareness programmes on various social issues are being conducted by our students in the neighbourhood communities and the adopted villages
- World Ocean Day, World Fisheries Day, World No Tobacco Day, World Oral Health Day, World AIDS Day, International Radiology Day, World First Aid Day, Theatre Day, International Day of Mathematics and National Startup Day were organized by our Research Centres and Departments
- Staff and students of our Dental College and College of Nursing have conducted a series of awareness programmes on Dental Care and Health care in Schools and Old Age Homes. The Public health wing of the School of Dental Sciences has organized 20+ Dental Screening Camps and 10+Special Programmes for the general public in the last year
- Outreach programmes, awareness programmes, workshops and seminars were organized by the departments commemorating various National/International Days of Importance
- Our Chancellor has launched a new initiative for women’s health called "ANBU" on 5th May 2024 to commemorate Mother’s Day. ANBU Health Cards were distributed to all the women staff of Sathyabama, girl students, and women in public life like sanitary workers in Chennai Corporation, Government School Teachers and women police

- An Awareness Programme on the conservation and restoration of sea-grass was conducted for fisherwomen by the centre for ocean research
- The Institution has adopted 7 more government schools bringing the total number of schools under our care to 30

## PLACEMENTS

- The Placement Cell has been instrumental in preparing students to meet corporate expectations, aligning with the Founder Chancellor's belief that "Entry is not important. Exit is important". To address the ever-evolving demands of the industry, a variety of skill development programs have been introduced. As a result, we are pleased to report that 417 companies visited our campus last academic year (2023- 24), resulting in 92.72% of our students securing 3053 job offers through our Campus Recruitment Program
- The average annual salary package offered was Rs. 5,75,000, with MotorQ leading with a maximum package of Rs. 50,00,000 per annum. Our graduates have been placed in diverse fields, in Accenture, Cognizant, Capgemini, HCL, TCS, Nokia, Siemens, Sona Comstar, Zifo, JSW, Athena Health, Khimji Ramdas LLC and Renault Nissan etc
- All the students of our first batch of B.Sc (Nursing) (2019- 2023) were successfully placed in Apollo Hospital, Apollo Proton Cancer Center, Dr Mehta's Hospitals, Kanchi Kamakoti child trust hospital, Miot Hospital, and Dr.Mehta's Multispeciality Hospital Chetpet.
- We are happy to announce that Dr. Naga Chandrasekar, a Mechanical Engineering 1991–1995 batch alumnus, has been appointed by INTEL as Chief Global Operations Officer, Executive Vice President, and General Manager



To Conclude, Dear Graduates,

You have completed your graduation and got your degrees today. But education extends beyond the classroom. Never stop learning. Adaptability and a willingness to acquire new skills will keep you relevant and successful in this rapidly changing world. Follow your passions and interests. Be flexible and open to new opportunities and challenges. Accept failure and learn to see it as one more opportunity to learn. Life is always full of surprises, with unpredictable twists and turns, ups and downs. You should have the ability to bounce back and keep moving forward. Develop network-maintaining connections can open doors to opportunities and provide support in difficult times. Give back to your society-contribute to your communities and help others along the way. In all situations, maintain integrity and be ethical and do remember the values Sathyabama Institute of Science and Technology has instilled in you. Rejoice in the memories you had in Sathyabama and stay connected with us.

**Thank you**

**Jai Hind**



# 32<sup>nd</sup> CONVOCATION





# RANKINGS AND RATINGS



**10 UG Engineering Programmes and 1 PG MBA Programme**  
is Accredited by the National Board of Accreditation (NBA)



Accreditation Board for Engineering and Technology

**Internationally Accredited by ABET** for B.E. (Computer Science and Engineering), B.Tech. (Biotechnology) and B.E. (Electrical and Electronics Engineering) Programmes



**Ranked 1001-1200** in the World by QS World University Rankings, 2024. Sathyabama is One of the 46 Institutions in India Ranked by QS

**Ranked 401-450** in the QS Asia University Rankings, 2024 by Assessing the Performance of Sathyabama in the Core Criteria like Teaching, Research, Internationalization and Employability



**Awarded 5 Stars Ratings** for Academic and Research Excellence



**Ranked 601-800** by the Times Higher Education Subject Rankings, 2024 for Clinical, Pre Clinical & Health

**Ranked 801-1000** by the Times Higher Education Subject Rankings, 2024 for Computer Science, Engineering & Technology, Physical Sciences, and Life Sciences



**Ranked 1201-1500** in the World by Times Higher Education World University Rankings, 2024

**Ranked 501-600** by the Times Higher Education Asia University Rankings, 2024



**Ranked 601-800** in the Overall Times Higher Education Impact Rankings

Ranked 101-200

for SDG 07  
Affordable and Clean Energy

Ranked 201-300

for SDG 15  
Life on Land

Ranked 201-300

for SDG 14  
Life below water

Ranked 301-400

for SDG 13  
Climate Action

Ranked 401-600

for SDG 09  
Industry, Innovation and Infrastructure

Ranked 601-800

for SDG 01  
No Poverty

Ranked 601-800

for SDG 17  
Partnership for goals

Ranked 801-1000

for SDG 03  
Good Health and Well Being



**Startup TN Ranked Sathyabama TBI as**



**CBCS - Choice Based Credit System**  
Credits given based on the choice of subjects the students take



**56 Startups**  
Vibrant Startup Culture

**3000+ Students Employed**  
as on July, 2024

**₹50 Lakhs Per Annum**  
Highest Salary Package

**23 Research Centres**  
Unique R&D Labs, Sequencing Machine, Profiler Lab, Algal Lab, Marine Museum and Mass Spectrometry

**10 Centre of Excellence**  
Metaverse Studio, Drone Experimentarium, Advanced Characterization Facilities, AI Supercomputing Labs and Sophisticated Media Centre