

## SRI SATHYA SAI INSTITUTE OF HIGHER LEARNING (Deemed to be University)

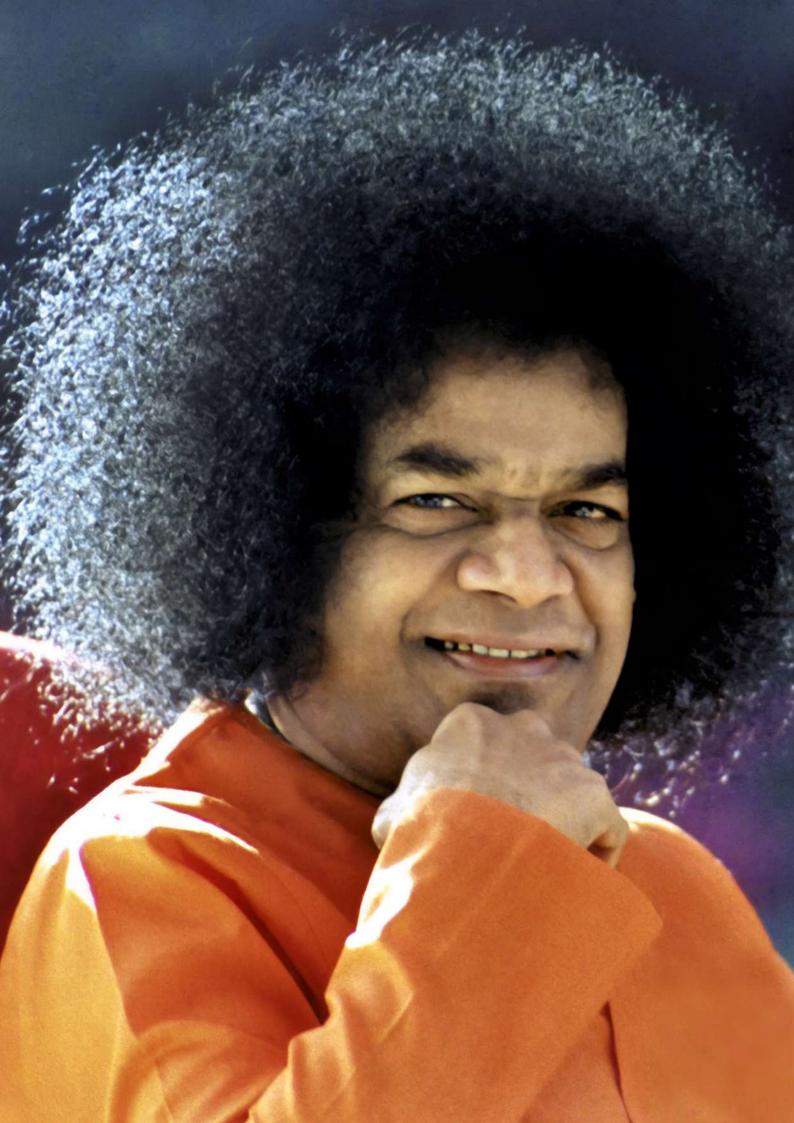
# ANNUAL REPORT 2023-2024

# 66

Every human body is sustained by the five life breaths - Prana, Apana, Vyana, Udana and Samana. What are the five life-breaths for a student? They are Truth, Righteousness, Peace, Love and Non-violence. All these five principles have to be rigorously observed to sublimate one's life. Each one should cultivate the qualities of compassion, patience, and oneness. These qualities will promote the unity of mankind. These are based on the love principle. Without love, there is no life. Love gives rise to truth. Love begets peace. When you have love, you practice non-violence. Love is the undercurrent in all these.

> Excerpt from Ch. 27, Sri Sathya Sai Speaks (Vol. 26), 12th Convocation Address, 22 Nov 1993

> SRI SATHYA SAI BABA Revered Founder Chancellor, SSSIHL





# Foreword

#### Reflections on the Academic Year 2023-2024: A Year of Progress and Excellence at SSSIHL

As we look back on the academic year 2023-2024, it is with immense pride that I present the achievements of Sri Sathya Sai Institute of Higher Learning (SSSIHL). This year has highlighted our Institute's steadfast dedication to holistic education, pioneering research, and impactful societal contributions. The strides made across academic excellence, research, and community engagement reflect the collective commitment of our faculty, students, and staff to a vision that balances intellectual growth with social responsibility.

The academic year was distinguished by a series of impactful milestones. In 2023-24, the Institute secured research and teaching grants amounting to ₹3.68 crores, underscoring our dedication to advancing both education and research. Over 70 conferences and workshops were organized to enrich the academic environment for both faculty and students. Our faculty and research scholars actively participated in 267 academic events, fostering a culture of continuous learning and scholarly exchange. Additionally, 138 guest faculty members were invited to share their expertise, further enhancing the learning experience at SSSIHL.

A remarkable 222 projects and dissertations were completed at the undergraduate and postgraduate levels. Furthermore, 155 research papers authored by our faculty and research scholars were published in prestigious academic journals, along with presentations at 101 conferences, demonstrating our academic community's commitment to expanding global knowledge and fostering intellectual excellence.

A significant milestone this year was the groundwork laid for introducing five new academic programs, aligned with the National Education Policy (NEP) 2020. These programs, designed to address evolving academic and professional standards, are set to commence in the 2024-25 academic year, positioning SSSIHL at the forefront of quality education and innovation.

Reflecting the Institute's focus on interdisciplinary research, four Centers of Excellence have been established, each dedicated to advancing research in pivotal fields:

- The **SSSIHL Centre of Excellence for Actuarial Data Science (CADS)** focuses on leveraging data science to address complex actuarial problems.
- The **SSSIHL Centre for Excellence in Mathematical Biology (CEMB)** is dedicated to exploring the intersection of mathematics and biology.
- The Sri Sathya Sai Centre for Sustainable Development

**(SSSCSD)** is committed to fostering environmental sustainability and societal well-being.

• The **Centre for Sri Sathya Sai Studies (CSSSS)** promotes research on the teachings and philosophy of Sri Sathya Sai Baba, reinforcing our cultural and ethical foundations.

SSSIHL has also made notable strides in cutting-edge research that holds great potential for societal benefit. One significant project, funded by the **Indian Council of Medical Research (ICMR),** focuses on investigating heteroresistance in *Enterobacteriaceae*. This research has the potential to inform public health strategies for combating antimicrobial resistance—a critical and growing global issue.

In another major initiative, a **DBT-BME-funded project** aims to create a low-cost plasmonic diagnostic device to assess diabetic retinopathy and glaucoma, conditions affecting millions worldwide. Additionally, our research team is pioneering the development of a **compact, handheld multimodal gamma camera** designed for real-time imaging during surgeries which promises to improve patient outcomes significantly.

This year saw the formal initiation of placements and internships at the Institute, with the appointment of a full-time training and placement officer. This development ensures that our students are not only academically prepared but also equipped to transition smoothly into the professional world.

Another milestone achieved was the declaration of semester results within an impressive 18 days for the even semester of 2023-24, reflecting our commitment to operational excellence. To bring greater synergy and focus to our academic programs, all management and commerce programs were consolidated at the Brindavan campus, while all science programs were unified at the Prasanthi Nilayam campus. This realignment ensures that students benefit from a more cohesive learning environment tailored to their disciplines.

Further enhancing our infrastructure, all campuses are now equipped with Wi-Fi and smart classrooms, creating modern learning environments that foster collaboration, innovation, and success in today's digital landscape.

SSSIHL students have performed exceptionally well in national competitive exams such as GATE, CSIR, and NET, with a remarkable success rate of nearly 49%. A particularly proud moment for the Institute was when Sri Srikar Ayyagari, a student of M.Sc. Mathematics secured the top rank in the GATE exam, a testament to the academic rigor and quality of education imparted at SSSIHL. To further enhance the academic and research quality, two significant workshops were organized for faculty: one focused on the **Quality Indicator Framework** and the other on **NAAC Accreditation**. These initiatives aim to ensure that the Institute continues to meet the highest standards of educational excellence.

In keeping with our tradition of fostering cultural inclusivity and national character, we celebrated several national commemorative days, including **Bharatiya Bhasha Utsav**, **National Nutrition Week, World Diabetes Day, National Mathematics Day, National Startup Day, World Sanskrit Day, National Science Day, as well as Republic Day and Independence Day**. These events helped students appreciate India's rich cultural heritage and instilled a sense of pride and unity.

Our commitment to societal impact was clearly demonstrated through its rural outreach programs. In an inspiring initiative, students and faculty demonstrated science experiments in government schools in nearby villages. This hands-on approach ignited interest in science among village students and reinforced our mission of using education as a tool for societal upliftment.

The academic year 2023-2024 has been a year of remarkable progress and achievement for SSSIHL. From pioneering research initiatives to fostering a culture of academic excellence and social responsibility, we have remained steadfast in our mission to provide holistic education. As we look ahead, I extend my deepest gratitude to the entire SSSIHL community–our faculty, students, staff, members of the Executive Council. Academic Council. Finance Committee. Board of Studies and all our collaborators—who have worked tirelessly to uphold the Institute's values and vision. We would like to gratefully acknowledge the unwavering support of the Sri Sathya Sai Central Trust, our esteemed donors, and CSR contributors whose generosity has enabled these accomplishments. Together, we are shaping a future where education transcends intellectual growth to encompass meaningful contributions to society and the world at large.

> Prof. B Raghavendra Prasad Vice-Chancellor





# Annual Report 2023-24

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# **Integral Education Dimensions**

Sri Sathya Sai Values-based Integral Education

Sri Sathya Sai Institute of Higher Learning (Deemed to be University), Prasanthi Nilayam, Andhra Pradesh, India, is a visible manifestation of Bhagawan Sri Sathya Sai Baba's vision of education for human transformation. The Institute was recognised as a Deemed to be University by the Government of India in 1981.

The Institute hosts students from across the country at its four campuses located in the states of Andhra Pradesh and Karnataka, in India, and provides quality education to students, free of cost, for all programmes of study.

#### For Women:

• Anantapur Campus at Anantapur, Andhra Pradesh

#### For Men:

- Prasanthi Nilayam Campus at Puttaparthi, Andhra Pradesh
- Brindavan Campus at Kadugudi, Bengaluru, Karnataka
- Muddenahalli Campus at Muddenahalli, Karnataka

The academic programmes offered include undergraduate, postgraduate, professional, and research. The institute has an open admissions policy for all, irrespective of income, religion, or social status.

#### Academic Programmes:

- Undergraduate: B.A. (Hons. / Hons. with Research), B.B.A. (Hons. / Hons. with Research), B.Com. (Hons. / Hons. with Research), B.S. (Hons. / Hons. with Research), B.P.A. (Hons.)
- Postgraduate: M.A., M.Sc.
- Professional: B.Ed., M.B.A., M.Tech.
- Research: Ph.D.

## A Modern Gurukula

The holistic approach to education that Sri Sathya Sai Institute of Higher Learning (SSSIHL) imparts is based completely on the life, teachings, and direct precepts of its Revered Founder Chancellor, Bhagawan Sri Sathya Sai Baba.

The underlying philosophy of SSSIHL as put forth by the Founder Chancellor is "The Institute was founded on the philosophy of Integral Education with the object of bringing about emotional, ethical, intellectual and spiritual integration in individuals by imparting basic spiritual and material education with a view to evolving total 'man' imbued with human values".

Right from its inception, SSSIHL has integrated ethics and values as the undercurrent of every subject taught at the Institute. Combined with academic excellence, the Institute provides a holistic framework of interpersonal development for its students. Its compulsory residential character trains the mind, body, and spirit of the student in an environment similar to the Indian '*Gurukula*' system of education, in the most modern context. This helps students develop a wholesome and balanced personality, one where academic competence is intertwined with value systems.

## **Distinctive Features**

#### Admissions

- Open merit-based admissions policy for all, irrespective of income, religion or region
- Quality education, free of cost, for all students

#### **Residential Character**

- Teachers and students live and grow together on the campus in an atmosphere of mutual trust and unity, enabling the translation of theoretical lessons learned into practical skills through experiential learning
- Spiritual ambience in an environment of discipline and love
- Cultivation of the spirit of self-reliance, brotherhood, and sacrifice through mentoring and personal example

#### Infrastructure

- Fully enabled WiFi campuses in spacious and peaceful surroundings
- Well-equipped, modern science laboratories and state-ofthe-art research instruments facility
- Integrated Library Management System (ILMS) accessed through the online Public Access Catalogue (OPAC), with over 1.89 lakh volumes
- Connected to the National Knowledge Network (NKN)
- Computer and multimedia learning centres with ultrahigh-speed internet connectivity
- International Centre for Sports in the Prasanthi Nilayam campus and excellent sports facilities in the respective campuses

#### Academics & Research

- Student-teacher ratio of 10:1
- NEP compliant four-year undergraduate programmes with multiple entry and exit options, and postgraduate, professional and research programmes
- Research collaborations with premier Indian and foreign institutions and industry
- Interdisciplinary/multidisciplinary research for societal benefit

#### **Integral Education**

- Awareness programmes and self-development classes reinforcing ethics and human values
- Co-curricular activities that include sports and cultural activities
- Self-reliance departments inculcating the spirit of confidence and self-reliance
- Village service and community engagement inspiring selfless service to society
- Spiritual and devotional activities that inspire student to connect to their higher self

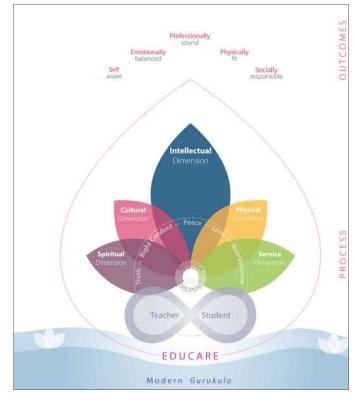
## **The Process**

Sri Sathya Sai Values-based Integral Education system is a modern, rational, and scientific education system rooted in Indian ethos. It takes the best of both ancient and contemporary learning techniques and caters to the physical, mental, emotional, intellectual, and spiritual dimensions of human personality leading to wholesome growth. The five human values of Sathya (Truth), Dharma (Right Conduct), Shanti (Peace), Prema (Love), and Ahimsa (Non-violence) form the undercurrent of all the dimensions of integral education.

In the words of Bhagawan Baba, in this Institute, the medium of instruction is discipline and the first, second, and third languages are love, service, and sadhana (spiritual practice). The goal of the Institute is to develop students who are professionally sound, physically fit, emotionally balanced, socially responsible, and spiritually aware.

The values-based integral education system rests on the five pillars, namely – academic (intellectual), physical, cultural, service, and spiritual (devotional). A typical day in the life of a student at the campus from 5.00 am until 10.00 pm is strewn with several purposeful activities pertaining to these five pillars. The morning starts with collective prayers and meditation followed by fitness activities like jogging, yogasanas, workouts at the gym, games, and other vocational pursuits (such as practice sessions for music, band, traditional Indian music, etc.).

The day (9.30 am to 4.00 pm) is packed with academic activities. After college hours, students play games and engage in self-reliance departments where students offer selfless service and gather diverse skills. Occasionally, students participate in social work in and around the campus and other community engagement activities. These service activities assist in inculcating in the young minds a spirit of selfless service, the dignity of labor, teamwork, and cooperation. This is followed by time for *sadhana* (spiritual practice), which includes chanting of vedic mantras, hymns, and singing of *sarva dharma bhajans*. Dinner is followed by mandatory study hours wherein students revise all that has been taught during the day. The day ends with a night prayer of self-reflection. Thus, students are kept busy the whole day in meaningful pursuits with no time for any unnecessary distractions.



Sri Sathya Sai Values-based Integral Education

### **The Outcome**

The outcomes of the system of Values-based Integral Education at SSSIHL are multifold. It prepares all graduates to be:

- Professionally Sound
- Physically Fit
- Emotionally Balanced
- Socially Responsible
- Self-aware

It helps develop a strong character and positive qualities in students and nurtures virtues like adaptability, tolerance, and sacrifice; shaping them into noble and responsible citizens.

I have established these institutions to impart spiritual education as a main component and worldly education as a secondary one. Education should enable one to cultivate good qualities, character and devotion. The teaching of the University curricula is only the means employed for the end, namely, spiritual uplift, self-discovery and social service through love and detachment.

Sri Sathya Sai Baba Revered Founder Chancellor, SSSIHL

# Values-based Integral Education – The Five Dimensions:

#### **Intellectual Dimension**

The intellectual dimension of the system comprises the academic inputs in the college related to their respective academic programmes; the awareness courses that expose the students to Bhagawan Baba's spiritual message and its relevance in our daily life; the self-development classes every Thursday that bring students face to face with eminent and renowned speakers who share with students their ideas and thoughts on varying topics ranging from patriotism, spiritual and human values, life challenges, Indian ethos, and history; and regular prayer talks by students and teachers on a variety of topics.





#### **Physical Dimension**

The physical dimension of the system comprises sports, games, jogging, exercises, yogasanas, and several matches and competitions in various individual and team games and athletic events, spread across the entire semester. All these events help keep the students physically and mentally fit and bring out the best talents from within. These activities conclude in an Annual Sports and Cultural Meet, celebrated from 11th to 15th of January every year, wherein all the campus students get together at Prasanthi Nilayam and offer a bouquet of wonderful sports, gymnastics, and adventurous performances to the Founder Chancellor Bhagawan Sri Sathya Sai Baba.







#### **Cultural Dimension**

The cultural dimension of the system includes activities such as brass band, nadaswaram and panchavadyam ensemble, vocal and instrumental music, drama and dance, rangoli and card making, photography, cartoon making and sketching, elocutions and debates, and many more. All these events build a strong emotional quotient in the students and make them good team players; even as they find an avenue for their artistic expression and nurture their hidden and manifest talents. These events also see their culmination in the Annual Sports and Cultural Meet mentioned above wherein students offer a garland of music programmes, cultural presentations, mythological plays, and dances as an offering to their Beloved Bhagawan. Festivals of major world religions are celebrated, reinforcing the unity among all faiths. Every student is involved in one way or another in the celebration of these festivals.





#### **Service Dimension**

The service dimension of the system consists of self-reliance departments covering areas like electricals, plumbing, audiovisuals, multimedia, dispensary, hostel mess, arts and crafts, and many more. Community living in the hostel where students live in dormitory-styled accommodation with other students from totally different backgrounds (for a minimum of two years and up to five or more years), propels students to develop understanding and adjustment and cultivate the habit of regular selfless service. All dining sessions are managed and organised by students. Apart from this, students engage in regular cleaning of their rooms, and classrooms, upkeep of sports grounds, gardening, and so on. Service activities in nearby villages are also taken up with a two-fold objective: a) making an impact on the village folk, and b) sensitizing the students to opportunities of service that lie before them. The philosophy of service at SSSIHL is based on the concept that divinity pervades all of humanity, and hence when you serve others, you are serving the Divine. Students learn to serve without expecting anything in return while experiencing the deep inner satisfaction of serving others.

#### **Spiritual Dimension**

The spiritual dimension of the system serves as the undercurrent for all the other dimensions. The components in their daily life, that enable a student to connect to her / his Divine inner self include suprabhatam (prayer at dawn), vedic chants and stotras (hymns), meditation and silent sitting, brahmarpanam (food prayer), sarva dharma bhajans (sankirtan) pertaining to all religions, assembly (college prayer), and kshama prarthana (night prayer). The quintessence of this dimension is that it cultivates in the students a sense of humility and the spirit of dedicating all that they do every day in their lives as an offering to the higher power or the Lord. This makes them strive to put in their best in whatever they do, leading to excellence in action – yogah karmasu kausalam.



# Structure & Governance

Sri Sathya Sai Institute of Higher Learning (Deemed to be University) was established by the Sri Sathya Sai Institute of Higher Learning (Public Charitable Trust), which in turn has been established by the Sri Sathya Sai Central Trust. Bhagawan Sri Sathva Sai Baba is the Founder of these Trusts.

#### Sri Sathya Sai Institute of Higher Learning -**Public Charitable Trust**

The Sri Sathya Sai Institute of Higher Learning (a Public Charitable Trust) was established to nurture the intellectual, emotional, ethical, and spiritual growth of individuals, aiming to develop well-rounded human beings through a curriculum that integrates human values in its academic programmes reflecting the composite culture of India. The Institute seeks to preserve and promote India's rich cultural heritage while fostering in its students and teachers a deep awareness of the nation's social needs, with particular attention to the rural population. Furthermore, the Institute aspires to cultivate a global perspective and an international outlook in students. Its members for 2023/24 were:

#### Sri R J Rathnakar, Member Secretary

Active Social Worker and Alumnus, Sri Sathya Sai Institute of Higher Learning

Sri S S Naganand, Member

Just Law Advocates, Senior Advocate, High Court of India and Supreme Court of India, and Former President, International Commission of Jurists (Karnataka section)

#### Dr. V Mohan, Member

Chairman & Chief Diabetologist, Dr. Mohan's Diabetes Specialities Centre, an IDF Centre of Excellence in Diabetes Care, Director & Chief of Diabetes Research, Madras Diabetes Research Foundation, an ICMR Centre for Advanced Research on Diabetes

#### Prof. S P Thyagarajan, Member

Former Chancellor of Avinashilingam Institute for Home Science and Higher Education for Women (Deemed to be University), Former Vice-Chancellor, University of Madras, Professor of Eminence & Dean (Research), Sri Ramachandra University and Eminent Microbiologist and Inventor

#### Prof. K B R Varma, Member

Former Vice-Chancellor, Sri Sathya Sai Institute of Higher Learning, Former Professor, Material Research Centre, Indian Institute of Science, Bengaluru

#### **The Principal Bodies**

The administrative and academic functioning of SSSIHL is carried out by the following three principal bodies:

- The Executive Council
- The Academic Council
- The Finance Committee

#### The Executive Council

The Executive Council is the principal authority of the Deemed to be University, responsible for its general management and administration. Its members for 2023/24 were:

- Prof. B Raghavendra Prasad, Vice-Chancellor, SSSIHL (Chairman)
- Sri S S Naganand, Member, SSSIHL PCT Just Law Advocates, Senior Advocate, High Court of India and Supreme Court of India, and Former President, International Commission of Jurists (Karnataka section)
- Dr. V Mohan, Chairman & Chief Diabetologist, Dr. Mohan's Diabetes Specialities Centre, an IDF Centre of Excellence in Diabetes Care, Director & Chief of Diabetes Research, Madras Diabetes Research Foundation, an ICMR Centre for Advanced Research on Diabetes

- Prof. K B R Varma, Former Vice-Chancellor, Sri Sathya Sai Institute of Higher Learning, Former Professor, Material Research Centre, Indian Institute of Science, Bengaluru Prof. V Chandrashekar, Distinguished Professor and Centre
- Director, Tata Institute of Fundamental Research, Hyderabad
- Prof. Pushpati Nath Razdan, Former Vice-Chancellor, Dr. D Y Patil Vidyapeeth, Pune, Principal Adviser, Quality Assurance & Excellence Cell, Gokula Education Foundation
- Prof. M Muruganant, Provost, Adani University Prof. R Gowrishankar, Dean of Academic Affairs, SSSIHL
- Prof. Pallav Kumar Baruah, Dean of Sciences, SSSIHL Prof. N Srividya, Dept. of Food and Nutritional Sciences, SSSIHL .
- Dr. Srikanth Khanna, Registrar, SSSIHL (Member Secretary)

#### The Academic Council

The Academic Council is the principal academic body of SSSIHL and shall, subject to the provision of the rules of the Institute, coordinate and exercise general supervision over its academic policy. Its external members for 2023/24 were:

- Prof. B V Rathish Kumar, Professor, Dept. of Mathematics and • Statistics, IIT Kanpur
- Prof. K R Shanmugam, Director, Madras School of Economics, Chennai
- Prof. K N Balaji, Dept. of Microbiology and Cell Biology, CIDR, IISC, Bengaluru
- Prof. M Sainath, Professor of Physics and Executive Director, ICFAI Foundation for Higher Education Innovation & Entrepreneurship Council, ICFAI, Hyderabad
- Dr. Vijay Potluri, Head, Chemistry Operations, Syngene International Limited, Amgen R&D Centre, SARC, Bengaluru
- Sri Chandra Mohan, Director and Group President Finance, Tractors and Farm Equipment Limited (TAFE), Chennai

#### **The Finance Committee**

The Finance Committee oversees and manages the financial matters of SSSIHL. It reviews the annual accounts and financial estimates, which are then submitted to the Executive Council for approval. The committee also considers and recommends the annual budget and revised estimates to the Executive Council, ensuring alignment with the institute's financial goals. The committee also sets limits for the institution's total recurring and non-recurring expenditures based on available income and resources. Its members for 2023/24 were:

- Prof. B Raghavendra Prasad, Vice-Chancellor, SSSIHL (Chairperson)
- Sri S S Naganand, Member, SSSIHL PCT, Just Law Advocates, Senior Advocate, High Court of India and Supreme Court of India, and Former President, International Commission of Jurists (Karnataka section)
- Prof. R Kumar Bhaskar, Hon. Professor, Dept. of Management & Commerce, SSSIHL
- Dr. Srikanth Khanna, Registrar, SSSIHL
- Sri J Lakshminarasimhaiah, Finance Officer, SSSIHL (Secretary)

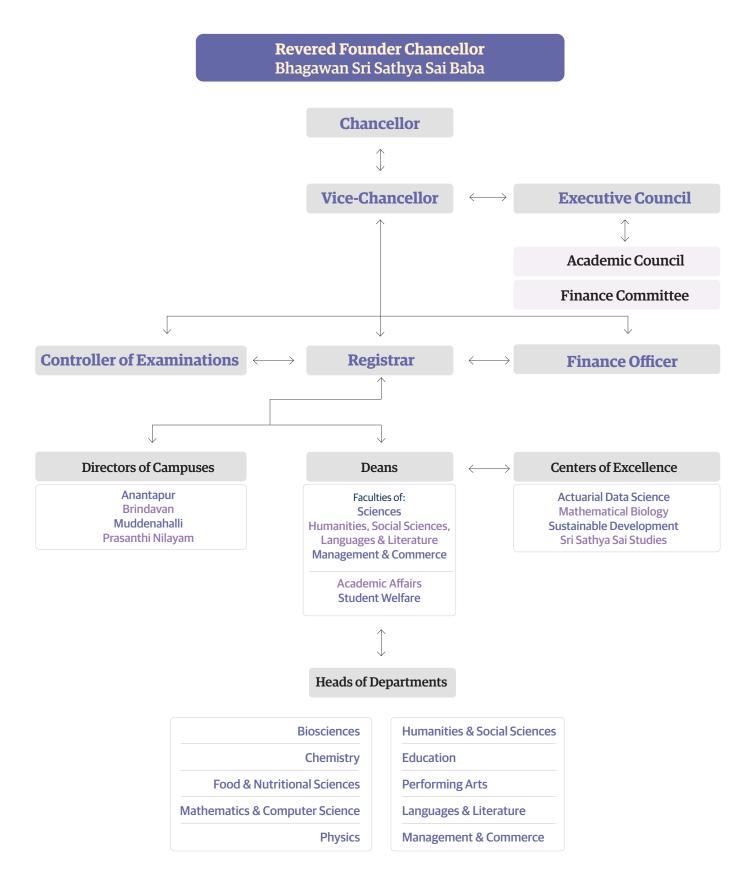
#### Committees

These are set up to ensure the high academic, research, and administrative standards that SSSIHL has striven to maintain consistently. They include:

**Important:** Research Advisory Board, Internal Quality Assurance Cell (IQAC), Boards of Studies, Institutional Ethics Committee, Institutional Biosafety Committee, Research Conferment Cell, Building and Works Committee, and Campus-Hostel Management Committee.

**Mandatory/Essential:** The Anti-Ragging Committee, Students Grievance Redressal Committee (SGRC), Anti-Discrimination/ Minority/OBC Cell, Committees for SC/ST, Internal Complaints Committee, Intellectual Property Rights Cell and Innovation Cell, Social Media Cell, Student Counsellors, Internal Committee for students with Disabilities, Ombudsman, Institute Industry Interface Cell, Entrepreneurship Club, Research and Development Cell, Gender Sensitization Cell, Green Cell, and Institution's Innovation Council.

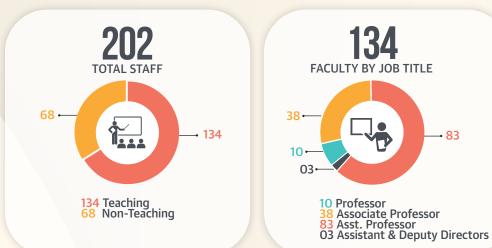
The Sri Sathya Sai Institute of Higher Learning (Deemed to be University) was established by the Sri Sathya Sai Institute of Higher Learning (Public Charitable Trust), which was itself founded by the Sri Sathya Sai Central Trust. Bhagawan Sri Sathya Sai Baba is the revered founder of both these Trusts.



# **SSSIHL Statistics 2023/24**

## **STAFF PROFILE**

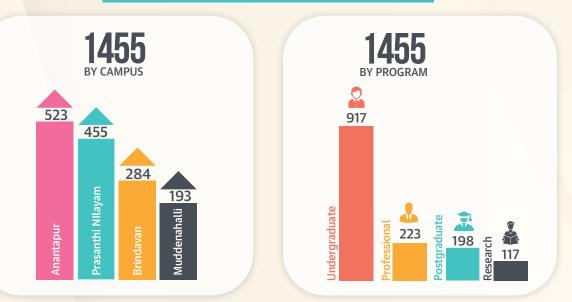
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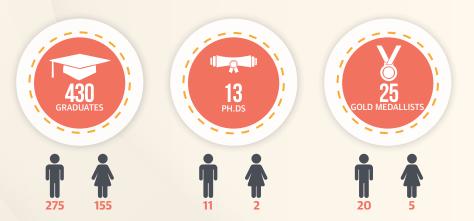


(Adjunct, Visiting, Adhoc, Honorary, Guest Speakers)

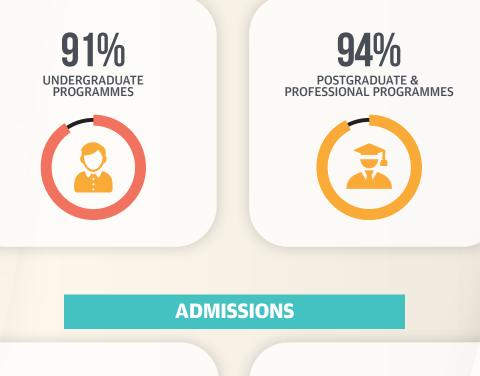
## **STUDENT PROFILE**

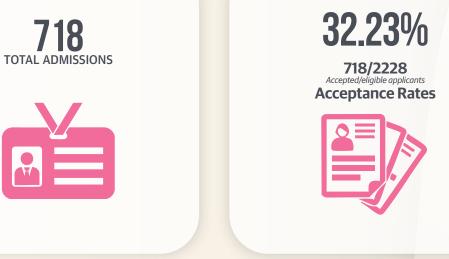


**GRADUATES** 



## **EXAMINATIONS PASS RATES**





## **ANNUAL EXPENDITURE\* PER STUDENT/PER YEAR**







# **Academic Events**

#### Chemistry

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**International Symposium on Recent Trends in Sustainability in Chemical Sciences, December 16, 2023** Mode: *Hybrid* 

The Department of Chemistry, SSSIHL, organized a one-day international symposium on "Recent Trends in Sustainability in Chemical Sciences." The event featured a series of talks by eminent experts from India and abroad, aimed at raising awareness within the chemistry community about their crucial role they play in working towards a sustainable future. The symposium was conducted in a hybrid mode, allowing faculty members, research scholars, and students from the Prasanthi Nilayam, Brindavan, and Anantapur campuses to participate and benefit from the discussions.

#### **Education**

**Interactive e-Content Development and Content Curation, March 21, 2024** Mode: *Online* 

The Department of Education at the Anantapur campus, SSSIHL, hosted an insightful online workshop on "Interactive e-Content Development and Content Curation" on 21 March 2024. Led by Dr. Biju K, Assistant Professor, Department of Education & Training, Central University of Tamil Nadu, Thiruvarur, the workshop provided an in-depth exploration of digital teaching tools and strategies for the modern classroom. Participants gained hands-on experience in instructional design, content creation, and the effective use of online platforms for engaging e-content.

#### Value Workshop on December 26-27, 2023

Mode: In-person

The Department of Education organized a value workshop for B.Ed. Students to help them identify and appropriately integrate values into their teaching methodologies.

#### **Food & Nutritional Sciences**

National Symposium: A Holistic Approach to Sustainable Food Systems: Integrating Agriculture, Nutrition, and Food Safety, March 01-02, 2024 Mode: *Hybrid* 

The Department of Food and Nutritional Sciences organized a two-day national symposium on "A Holistic Approach to Sustainable Food Systems: Integrating Agriculture, Nutrition, and Food Safety" at the Anantapur Campus from March 01-02, 2024. The event commenced with an inaugural address by Vice-Chancellor Prof. B. Raghavendra Prasad, who discussed various United Nations Sustainable Development Goals. The keynote address was delivered by Dr. A. Ashok Kumar, Principal Scientist and Product Placement Lead for Asia at ICRISAT, who highlighted the role of agricultural food systems, especially millets, in enhancing food and nutritional security. The symposium featured prominent speakers who delved into











the importance of sustainable food systems and discussed strategic approaches for improving food safety and quality. The theme of sustainability was woven throughout the event, with activities such as logo designing and ideathon competitions. The symposium provided a unique learning platform, bringing together experts in agriculture, nutrition, and food processing.

## Culinary Clicks: A Workshop on Food Styling & Photography Basics, February 03, 2024 Mode: In-person

The Department of Food and Nutritional Sciences organized "Culinary Clicks: A Workshop on Food Styling and Photography Basics" on February 3, 2024. The workshop, organized by Prof. N. Srividya, aimed to enhance participants' skills in capturing culinary artistry. Certified Food Photographer Mrs. Sai Aditya led the workshop, sharing valuable tips on setting the scene, mastering camera techniques, and post-processing images. The workshop received excellent feedback, with participants expressing immense satisfaction with its well-organized structure and valuable content. It was a flavorful experience that ignited a newfound passion in participants for showcasing the beauty of food through photography.

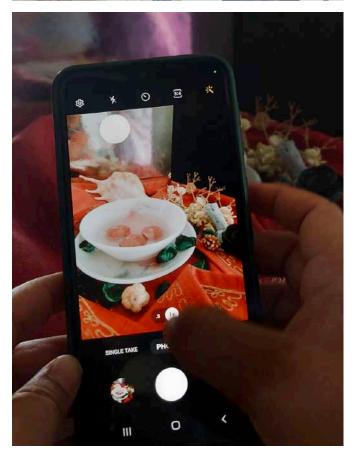
#### World Diabetes Day Celebrations 2023: Raising Awareness and Action, November 14-15, 2023

The Department of Food and Nutritional Sciences, SSSIHL, organized a two-day event from November 14-15, 2023, to commemorate World Diabetes Day, aligning with this year's theme, *"Know Your Risk, Know Your Response."* The event featured three key activities:

- **Diabetes Health Clinic:** Held at the Anantapur campus, this in-person clinic served approximately 100 participants, including students, faculty, and staff. Attendees underwent health assessments, including anthropometric measurements and random blood glucose tests. Personalized counseling was provided to those with irregular readings, emphasizing diabetes management through proper diet and lifestyle changes. A diabetes risk assessment questionnaire highlighted that a majority of participants were at moderate to high risk, emphasizing the need for continued awareness and preventive measures.
- World Diabetes Day Symposium: Hosted at the Multimedia Learning Center the event was kicked with a welcome address by Dr. M. Srijaya, Head of DFNS, SSSIHL. Prof. B. Andallu, DFNS, SSSIHL, provided a comprehensive overview of diabetes, covering essential aspects such as types, risk factors, and complications in detail. Keynote speaker, Mrs. Ira Rattan, a nutritionist from New Delhi, delivered a compelling talk on the reversal of Type 2 Diabetes through natural foods sharing case studies, tips, and recipe combinations, while Prof. N. Srividya, SSSIHL, introduced the concept of Time-Restricted Eating (TRE) in managing diabetes. The session concluded with an interactive Q&A.
- Educational Poster Session: This awareness initiative featured visually engaging educational posters that conveyed key information about diabetes, its risk factors, prevention strategies, and the role of proper nutrition in managing the disease.







The event successfully engaged participants, fostering greater awareness and proactive strategies for diabetes prevention and management.

#### National Nutrition Week 2023, September 05, 2023 Mode: In-person

In commemoration of National Nutrition Week 2023, the Department of Food and Nutritional Sciences organized an in-house event on September 5, 2023, centered around the theme, "Healthy Diet: Making it Affordable for All." The program included presentations aimed at raising awareness about the importance of a healthy breakfast and the health benefits of various functional food ingredients. The event concluded with an informative quiz session and the distribution of nutritious treats crafted from rolled oats.

#### **Humanities & Social Sciences**

#### **Economics**

ICSSR-SRC Sponsored National Workshop on TECHONOMICS: Empowering Women, Igniting Innovation, February 16-17, 2024 Mode: *Hybrid* 

The Department of Humanities and Social Sciences, Anantapur Campus, in association with the Indian Council of Social Science Research - Southern Region Centre (ICSSR-SRC), organized a 2-day workshop titled "TECHONOMICS: Empowering Women, Igniting Innovation" on February 16-17, 2024, at the Anantapur Campus.

TECHONOMICS featured seasoned academicians and industry experts who explored various facets of women's empowerment, their impact on family, society, and the nation, and the role of technology and innovation in bridging the gender gap. The workshop aimed to enable women to realize their potential and drive positive change.

#### Faculty Development Programme on Academic Ethics, Scientific Writing, and Unit-Level Data, October 25-29, 2023

Mode: Hybrid

The Department of Humanities and Social Sciences at Sri Sathya Sai Institute of Higher Learning organized a 5-day Faculty Development Programme (FDP) on "Academic Ethics, Scientific Writing, and Unit-Level Data" from October 25-29, 2023. The FDP was divided into two segments: the first focused on academic ethics, scientific writing, research publication techniques, and survey research; the second concentrated on handling large-scale survey datasets such as NFHS, IHDS, and NSSO. Participants received training in data management and analysis using Stata, covering skills such as importing, manipulating, reshaping datasets, and performing regression analysis.

Key resource persons included Prof. Abhishek Singh, Associate Prof. Ashish Singh, Assistant Prof. Kaushalendra Kumar, Ajit Kumar Kannaujiya, and Debarshi Dey.



#### **National Workshop on Macro Stabilization Policies for India During the Post-Pandemic Period, August 26, 2023** Mode: *Hybrid*

The Department of Humanities and Social Sciences organized a National Workshop on "Macro Stabilization Policies for India in the Post-Pandemic Era" on August 26, 2023, at the Prasanthi Nilayam Campus. The event brought together experts, academicians, policymakers, and students for lectures, presentations, and discussions focused on addressing economic challenges in the post-COVID-19 landscape. Traditional rituals, including Vedam chanting and lamp lighting, marked the commencement. Dr. G. Raghavender Raju welcomed the attendees, followed by Vice-Chancellor Prof. B. Raghavendra Prasad, who discussed the economic impact of the pandemic.



Key speakers included Prof. N. R. Bhanumurthy, Dr. Deba Prasad Rath, Dr. Nadhavael G.V., and Prof. Ashima Goyal, who emphasized various fiscal and monetary policy aspects. Student presentations on interest reference rates, de-dollarization, and central bank digital currencies further enriched the discussions.

#### Languages & Literature English

#### **Orientation Programme on Innovation and** Entrepreneurship in English Studies-I in collaboration with IIC, March 23, 2024

Mode: Hvbrid

The Department of Languages and Literature - English at the Anantapur Campus of SSSIHL organized a seminar titled "Innovation and Entrepreneurship in English Studies". The event featured two sessions led by distinguished resource persons. The first session, presented by Mrs. Smita Vivek Jakkani, a research scholar from CHRIST (Deemed to be University), Bengaluru, explored the topic "Can We Get a Patent in English Studies?", examining the possibilities of intellectual property in the field. The second session, led by Mrs. Amrutha Varshini S., focused on "From Startup to Scale-up: Building a 6-Figure Business", offering insights into entrepreneurial strategies for success. The event concluded with a vote of thanks and the traditional Mangalarathi.

#### Guest Lecture by Dr. Sharmila Sreekumar on Feminist Critical Theory, on March 14, 2024 Mode: In-person

The Department of Languages and Literature - English (DLL-E) at SSSIHL, Anantapur Campus, hosted a captivating guest lecture by Dr. Sharmila Sreekumar from IIT Mumbai. Dr. Sreekumar's talk on 'Feminist Critical Theory' provided profound insights into critical literary perspectives. A Fulbright Fellow at the University of Wisconsin-Madison, Dr. Sharmila Sreekumar emphasized the significance of feminist discourse as a catalyst for societal change, urging participants to confront systemic injustices such as environmental







degradation, capitalism, language chauvinism, casteism, and majoritarianism. Her talk sparked engaging discussions on societal inequalities and the transformative role of feminism in reshaping norms.

#### **Students Explore Dominant, Residual, and Emergent Cultures with Dr. Anhiti Patnaik, January 20, 2024** Mode: *Online*

The Department of Languages and Literature (DLL) - English, Anantapur Campus organised an online Guest Lecture on 20th January 2024 by Dr. Anhiti Patnaik on the topic, "Dominant, Residual, and Emergent Cultures in Harry Potter" for the students of MA (English) and BA (Advanced English) as a part of students' capacity building programme. The speaker introduced the concept of Raymond Williams' 'Cultural Materialism' by placing it within the framework of the Harry Potter series, the magical cultural sensation created by J.K. Rowling and later owned and taken over by fans. Using the dynamic diachronic approach advocated by Williams, Dr. Patnaik applied the three categories of culture, namely, the Dominant, Residual, and Emergent that evidenced themselves within the Harry Potter universe.

#### **Lit-Treat Edition 4: International Seminar on Earthy Echoes in English Literature, September 29-30, 2023** Mode: *Hybrid*

The Department of Languages and Literature - English hosted the fourth edition of the international seminar, "Lit-Treat IV: Earthy Echoes in English Literature", on 29th and 30th September 2023. The seminar featured a diverse range of academic activities, including a Literary Poster Competition, a Photo Caption Competition, and plenary talks delivered by prominent scholars in the field. The event also showcased paper presentations by participants and concluded with a student-performed drama titled "Egocentrism to Ecocentrism: Ecological Wisdom for Our Times". The plenary speakers included Ms. Niveditha Subramaniam, a writer, illustrator, and independent researcher based in the Netherlands; Prof. Pramod K. Nayar, Professor in the Department of English at the University of Hyderabad; and Dr. Shivani Sivagurunathan, from the University of Nottingham Malaysia. The seminar provided a platform for insightful discussions on the intersection of literature and ecological consciousness, contributing significantly to the academic discourse on environmental themes in English literature.

#### **Orientation Programme for the Freshers, July 6, 2023** Mode: *In-person*

The Department of Languages & Literature - English at the Anantapur Campus organized the "Orientation Programme for the Freshers 2023" on 6th July 2023, welcoming firstyear undergraduate and postgraduate students. Dr. Rani P.L., Associate Professor of DLL, delivered the opening address, highlighting the importance of the humanities in academia and encouraging the new students in their choice of study. Faculty members from the department also engaged the students with discussions on various relevant topics. The programme included a self-introduction session for the freshers, followed by an interactive game led by senior students, bringing the event to a lively and fitting conclusion.











#### Sanskrit

#### **Speech on Mahakavi Kalidasa, September 30, 2023** Mode: *Offline*

On September 30, 2023, a student at the Muddenahalli Campus delivered an inspiring speech on the celebrated poet Kalidasa and his profound contributions to Sanskrit literature. The speech commemorated the auspicious month of Ashadha Masa, traditionally believed to be when Kalidasa composed the epic poem Meghadhootam. The student's address highlighted Kalidasa's literary genius and provided valuable insights into the cultural and historical significance of his works.

## National Commemorative Day: Samskrita Dinam, August 31, 2023

Mode: In-person

The Vishva Samskrita Dinam was celebrated at the Muddenahalli Campus under the auspices of the Kalidasa Sanskrit Club on August 31, 2023. The program featured a Sanskrit skit performed by students, followed by a special guest lecture from Sri Timmanna Bhat, who spoke on the continued relevance of Sanskrit in the modern era. He emphasized Sanskrit's pivotal role as the mother of all languages and its unique pronunciation and writing system, which have contributed to the preservation of culture, values, and traditions. The chief guest further highlighted the necessity of incorporating Sanskrit into daily life, reinforcing its enduring importance.

#### Samskrita Sambhaashana Shibiram, August 21-31, 2023 Mode: *Offline*

Two trainers from Sringeri visited the Muddenahalli campus to conduct a 10-day Samskrit training session. The trainers effectively engaged with students, who displayed great enthusiasm and a deep interest in learning Sanskrit. The session underscored the importance of using Samskrit in daily conversation, much like a regional language, to ensure its relevance in modern times.

#### Telugu

#### Bharatiya Bhasha Utsav, December 18, 2023 Mode: In-person

The Department of Languages and Literature at the Anantapur campus organized the Bharatiya Bhasha Utsav on December 18, 2023. As part of this program, students from different regions and states participated, sharing sayings and expressions in their native languages. The main purpose of the program was to demonstrate that, while languages may differ, the emotions and sentiments they convey are universal. Students representing about 29 languages participated enthusiastically, showcasing the diversity and unity of Indian languages.

#### Telugu Language Day, August 29, 2023

Mode: In-person

Telugu Language Day was organized by the Telugu Department on August 29, 2023. The event featured a poetry competition on the theme "Telugu Language Uniqueness." A total of 22 students participated in the competition with enthusiasm, and three of them were awarded prizes for their exceptional contributions.

#### Library

#### **Exploring Shodh-Chakra: A Guide for Researchers -Training Program Summary, April 18, 2024** Mode: *In-person*

On April 18, 2024, the Central Library of Sri Sathya Sai Institute of Higher Learning (SSSIHL), in collaboration with the Internal Quality Assurance Cell (IQAC), hosted a training session titled Exploring *Shodh-Chakra*: A Guide for Researchers. The session was led by Dr. Abhishek Kumar, Scientist-E (CS) from the INFLIBNET Centre, Gandhinagar, Gujarat, and Mrs. Vaishnavi Ambade, Project Associate. The event was organized by Dr. M. Panduranga Swamy, the Nodal Officer of INFLIBNET at SSSIHL.





#### National Library Week, November 14-20, 2023 Mode: In-person

To celebrate National Library Week from November 14–20, 2023, the SSSIHL Campus libraries organized a variety of activities including thematic displays, quizzes, essay writing, bookmark design, and book talks to engage and inspire library users. At the Brindavan campus, renowned author Sri Naveen Lakkur–author of several books and Founder and Chief Innovation Coach at the Institute of Inspiring Innovation–was invited to interact with and inspire students.

#### **Management & Commerce**

#### **Faculty Development Programme on Financial Modeling using Excel VBA, R, and AI Tools, May 20 - June 04, 2024** Mode: *Online*

The Department of Management and Commerce & IQAC, SSSIHL organized an online Faculty Development Programme (FDP) on Financial Modeling using Excel VBA, R, and AI Tools for Faculty Members of Business Schools/Colleges/ Universities across India offering MBA, MMS, MS in Finance, M.Com. and the related UG courses. The resource persons were Dr. L.Goverthanan, MS, FCMA, and Dr. Subramanian S. Iyer, MBA, FRM. Specifically tailored for college educators, the FDP prioritized the transmission of practical skills and knowledge equipping them with the necessary skills to incorporate technology into their teaching methodologies effectively.

#### I-Cube: Inception, Imagination, and Innovation - A 3-Day Workshop on Entrepreneurship, March 14-16, 2024 Mode: *In-person*

The Department of Management and Commerce at the Muddenahalli campus organized I-Cube, a three-day workshop on entrepreneurship, from March 14-16, 2024. Focused on fostering innovation, the event featured lectures by prominent entrepreneurs and industry experts, providing students with valuable insights into the entrepreneurial mindset and lifestyle. A highlight of the event was the finalyear BBA students showcasing their business ideas in teams before a panel of successful entrepreneurs. The panel offered constructive feedback, and one standout team was awarded the top prize.

#### Workshop on Empowering Future Leaders through Simulation, January-March, 2024 Mode: In-person

The Department of Management & Commerce, Brindavan Campus, in collaboration with Fields of View, organized two unique workshops for II-year B.Com.(Hons.) students during the academic year, in January and March 2024. Through simulated learning experiences, these workshops aimed to foster 360-degree thinking and critical skills, empowering students to become future-ready leaders in a diverse and challenging world. By instilling critical skills and fostering 360-degree thinking, we empowered them to grasp societal issues and pressing challenges, encouraging active engagement in creating a safer, sustainable, and secure world.







#### **One Day Capacity Building Workshop on AI-Driven Management: Navigating the Future of Business, November 17, 2023** Mode: *In-person*

The Department of Management and Commerce at the Anantapur campus organized a one-day capacity-building workshop titled "AI-Driven Management: Navigating the Future of Business" on November 17, 2023, providing students with valuable insights into the future of AI-driven management and how businesses can leverage AI and cloud technologies to achieve strategic goals. The workshop featured a series of talks by eminent speakers from Microsoft, aimed at MBA and B.Com students.

The speakers included: Ms. Dhanya Lakshmi, a Machine Learning Engineer at Peloton Interactive, based in New York, USA., Ms. Nidhi Sinha, a Senior Specialist in Sales Azure at Microsoft, who leads strategic Data and AI customer initiatives, Ms. Anusha Vijayakanth, currently serving as Associate Director of the HR-APAC Leadership Hiring Team at Virtusa Software Solutions, Mrs. Jyothi Lakshmi K.P., a seasoned Technology Leader with over 25 years of experience in driving digital transformation across multiple industries, Ms. Janaki Balaraman, a Consulting Practice Leader for the Microsoft Industry Solutions Team, who helps Fortune 500 customers achieve digital transformation through Cloud Native and AIbased solutions on the Microsoft Azure Platform.

#### **38th MBA Day 'Milan' Celebrated, August 20-21, 2023** Mode: *In-person*

MILAN 91-93, the 38th MBA Day at SSSIHL, marked a special occasion where alumni from the 1993 batch of MBA students reunited to share their insights and experiences with the current MBA students. The two-day event featured various activities and discussions. On the first day, alumni mentored MBA students in exploring case studies covering topics like market analysis, funding pitches, technological adaptation, and leadership challenges. This hands-on experience provided students with practical skills and knowledge.

The second day included speeches from distinguished speakers. Dr. Sayee Manohar K, Head, Department of Management and Commerce welcomed the audience, Prof. B. Sai Giridhar, Registrar, SSSIHL gave the Inaugural Address, followed by talks by the Chief Guest Shri R J Rathnakar, Managing Trustee, SSSCT, the Vice-Chancellor of SSSIHL Prof. B. Raghavendra Prasad, and the CEO of Barclays India Sri Ram Gopal. They emphasized the importance of aligning education with industry needs, workplace ethics, and ongoing competence development.

#### **Workshop on Intellectual Property Rights, July 28, 2023** Mode: *Online*

The Department of Management and Commerce, Anantapur campus hosted a one-day workshop on Intellectual Property Rights on July 28, 2023, in association with CSIR-IMMT, Bhubaneswar. The workshop featured a series of talks by eminent speakers: Mrs. Saipriya Balasubramanian, Senior Business Intelligence and IP Analyst, Dr. Vijayalakshmi









Asthana, Principal Scientist at CSIR - Traditional Knowledge Digital Library Unit, Dr. Viswajanani Sattigeri, Head of the CSIR - Traditional Knowledge Digital Library Unit. The experts provided valuable insights into the importance and intricacies of intellectual property rights.

#### **Ignition - An Orientation Workshop, July 08, 2023** Mode: *In-person*

The Department of Management and Commerce at the Muddenahalli campus organized a one-day workshop titled "Ignition" on July 08, 2023. The workshop aimed at orienting first-year students towards their courses and subjects, helping them align their academic goals. The workshop featured alumni of the department as resource persons, which made the sessions particularly appealing and relatable for the students. The event was highly interactive and engaging, setting a positive tone for the students' academic journey.

#### **Mathematics & Computer Science**

#### Capability Enhancement Activity, March 02, 2024 Mode: *In-person*

The Department of Mathematics and Computer Science organized a career counseling session for students, facilitated by alumni on 2nd March 2024 at the Prasanthi Nilayam campus.

#### National Level Open Seminar - Navigating the Actuarial Career Path, the CAS Way: Insights for Students, February 17, 2024

Mode: Hybrid

The SSSIHL Center of Excellence for Actuarial Data Science hosted a prestigious National Level Open Seminar titled "Navigating the Actuarial Career Path, the CAS Way: Insights for Students" on February 17, 2024. The event featured esteemed speakers Ronald T. Kozlowski and Kendra Felisky, FCAS, CERA, who shared valuable insights into the CAS (Casualty Actuarial Society) career path, actuarial judgment, the Actuaries' Code of Conduct, and common challenges faced by actuaries.

With over 200 participants, the seminar attracted a diverse audience of aspiring students, seasoned professionals, industry experts, and faculty from sectors such as fintech, insurance, reinsurance, consulting, IT, and education. Attendees included both students and alumni, participating in person and virtually. Additionally, Dr. Rohan Yashraj Gupta, PhD, ASA, AIA, delivered a captivating session on "Generative AI & Its Application in Insurance," followed by a stimulating discussion led by Satya Sai Mudigonda.

#### Workshop "Innovate-360", February 12-16, 2024 Mode: In-person

The workshop titled "Innovate-360" was conducted from February 12-16, 2024, for students of BS Computer Science (Hons) and M.Sc. Data Science and Computing. The workshop covered topics such as applications of Machine Learning, Deep Learning, GIS, and actuarial science. Students gained











invaluable insights into cutting-edge technologies and interdisciplinary applications, empowering them to innovate and excel in their fields.

#### Workshop on Tuberculosis Epidemiology and the National Tuberculosis Elimination Program, January 27-28, 2024

Mode: In-person

This workshop was organized by the Department of Mathematics and Computer Science (DMACS), SSSIHL, in collaboration with the National Tuberculosis Institute (NTI), Bengaluru. The event focused on the epidemiology of tuberculosis and the national efforts toward its elimination.

#### National Mathematics Week, December 18-24, 2023 Mode: *Hybrid*

The Department of Mathematics and Computer Sciences celebrated "National Mathematics Week" in honor of Srinivasa Ramanujan's 136th birthday. The event aimed to commemorate Ramanujan's legacy, raise awareness of Ancient Indian Mathematics, and promote general mathematical awareness. Key events included a National Level Mathematics Quiz involving 25 schools, an exhibition on ancient Indian mathematics by undergraduate and postgraduate students, and two talks by distinguished speakers: Prof. Arni S. R. Srinivasa Rao on "Perspectives on Ancient Indian Mathematics," and Dr. Shriram Chauthaiwale on "Some Innovative Indian Contributions in Mathematics." Additionally, a National Level Art Contest themed "Geometry in Nature" engaged 96 children nationwide, with three winners selected. Throughout the week, undergraduate and postgraduate students delivered seminars on various mathematical topics and practical applications, providing insight into Ramanujan's life and work.

# International Actuaries Day 2023 Celebration, September 02, 2023

Mode: In-person

The SSSIHL Actuarial team celebrated International Actuaries Day on 2nd September 2023 at the Prasanthi Nilayam campus. During this occasion, Mr. Harold Singh, FSA, was honored by the Vice-Chancellor of SSSIHL for his 50 years of outstanding actuarial contributions and his support of the SSSIHL actuarial program since 2017. Mr. Satya Sai Baba Mudigonda was also recognized for his significant contributions to the actuarial community since 2010.

The journey of the actuarial program at SSSIHL began in 2009 when students from diverse fields began exploring actuarial science. Initially housed within the Department of Management, the program expanded across multiple disciplines. By 2022, SSSIHL's actuarial program earned global recognition, ranking among the top four actuarial programs worldwide, and was commended by the Casualty Actuarial Society as 'Exemplary and Innovative.'





#### National Conference on Recent Trends in Mathematical Biology: Theory, Methods, and Applications, July 20-22, 2023

Mode: Hybrid

The conference brought together scientists, researchers, academicians, and students from over 70 institutions across India, representing various disciplines. The event served as a platform for exchanging cutting-edge insights, advancements, and applications in the rapidly evolving field of mathematical biology. The focus was on interdisciplinary collaboration, integrating mathematical modeling with biological sciences to address real-world challenges in healthcare, environmental sustainability, and understanding biological systems. Attendees explored innovative theoretical frameworks and methodologies, fostering new research opportunities at the intersection of mathematics and biology.

#### SSSIHL Centre for Excellence in Mathematical Biology (CEMB) organizes an 'Infectious Disease Modeling Workshop' at Lovely Professional University (LPU), Jan 3-4, 2024

Mode: In-person

The SSSIHL Centre for Excellence in Mathematical Biology (CEMB) organized an 'Infectious Disease Modeling Workshop' at Lovely Professional University. The 2-day workshop led by Dr. D K K Vamsi, Associate Professor, Dept. of Mathematics and Computer Science and Co-ordinator for CEMB, marks a significant step towards fostering interdisciplinary collaboration and research in the field of Mathematical Biology.

#### **Physics**

Skill Development Workshop on Optical Designing Using Zemax OpticStudio, March 22-23, 2024 Mode: In-person

This two-day skill development workshop was jointly organized by the Department of Physics at SSSIHL, Anantapur Campus, and the Department of Physics, IIT Hyderabad. Led by Dr. Vandana Sharma, Associate Professor at IIT Hyderabad, along with her team, the workshop offered III B.Sc. (Hons.) Physics students have an in-depth understanding of optical design using Zemax OpticStudio<sup>®</sup>. The hands-on sessions equipped participants with practical skills essential for both academic and industrial pursuits. The workshop was coordinated by Dr. C. Prathibha and Dr. Lavanya Rathi P, Assistant Professors of the Department.

#### **India Techade: Chips for Viksit Bharat, March 13, 2024** Mode: *Hybrid*

The Department of Physics, Prasanthi Nilayam Campus, organized a celebration of Viksit Bharat on March 13, 2024. Dr. S. Jagadeesh Chandra, Senior Innovation Manager (Semiconductor Manufacturing) at Zeiss, Germany, delivered a talk on the latest trends and developments in semiconductor technologies.

## **Prof. M. K. Sundaresan Memorial Lecture Series (2nd Edition) on Recent Trends in Photonics, March 10, 2024** Mode: *Hybrid*

The 2nd edition of the Prof. M. K. Sundaresan Memorial Lecture Series on "Recent Trends in Photonics" was organized by the Department of Physics. Prof. M. K. Sundaresan, a distinguished scientist and long-term visiting faculty at SSSIHL, was remembered for his contributions to research and teaching in Physics. The event featured a talk on "Reconnect with Prof. M. K. Sundaresan" by Prof. K. Srinivasan, followed by technical talks by Dr. Saptarishi Chaudhuri (RRI, Bengaluru), Dr. N. Kamaraju (IISER-Kolkata), Prof. R. Sai Santosh (IIT-Hyderabad), and Dr. Manish Kumar (IIT-Delhi), along with a summary of the photonics research conducted at SSSIHL.

#### Workshop on Physics in Data: Crafting Careers in Engineering Science and Analysis, March 02, 2024 Mode: In-person

A career guidance workshop on data science was conducted to impart necessary skills and expose B.Sc. (MPC) students to current trends in technology and industry requirements. Mrs. M.N. Sai Geetha, Principal Data Architect at TESCO, Bengaluru, with over 25 years of industry experience, served as the resource person. The workshop was organized by the Department of Physics and coordinated by Dr. C. Prathibha, Assistant Professor, DPHY.









#### Career Counselling Session for II M. Tech. (Optoelectronics and Communications) Students, January 27, 2024 Mode: Online

Alumni of the M. Tech. (Optoelectronics and Communications) program conducted mock interviews for II M. Tech. Students, followed by a career counseling session on various industry opportunities in India.

#### **Career Opportunities in Photonics, November 16, 2023** Mode: *In-person*

Dr. Shivakiran Bhaktha, Professor, Department of Physics, IIT Kharagpur, delivered an overview of photonics-related research areas, highlighting potential career opportunities for students after completing their master's program. Firstyear M.Sc. Physics students expressed interest in pursuing internships in photonics research groups, while second-year students began applying for Ph.D. positions in areas like Quantum Photonics and Quantum Optics.

#### **Innovation Day Celebrations, October 14, 2023** Mode: *In-person*

"Innovation Day" was celebrated to honor the birth anniversary of former President of India, Bharat Ratna Dr. A.P.J. Abdul Kalam, inspiring young innovators to contribute to India's development. The event, organized by the Department of Physics, SSSIHL, and the Institution's Innovation Council, SSSIHL, included a seminar by Prof. Dr. M. Sainath, Executive Director, ICFAI Foundation for Higher Education Innovation & Entrepreneurship Council, Hyderabad, on "Creating an Ecosystem for Innovation and Entrepreneurship in Academic Institutions." The seminar was followed by an award ceremony recognizing two innovators from SSSIHL for their contributions to the indigenous development of the SAIC-19 Ag Kit and SAIC-19 Ab Kit (Rapid Antigen and Antibody Testing Kits).

#### **Skill Development Workshop on Optical Designing Using Zemax Opticstudio, September 15-16, 2023** Mode: *In-person*

A two-day skill development workshop on Optical Designing using Zemax Opticstudio was jointly organized by the Department of Physics, Brindavan Campus, SSSIHL, and the Department of Physics, IIT Hyderabad. Dr. Vandana Sharma, Associate Professor at IIT Hyderabad, and her team provided hands-on training to the final year B.Sc. (Hons.) Physics students, guiding them in the use of Zemax software for designing optical instruments.

# Chandrayaan Utsav: Lunar Leap - India's Expeditions to the Moon, August 23, 2023

Mode: In-person

The Space Club of the Department of Physics at the Anantapur Campus of SSSIHL organized an event titled "Lunar Leap -India's Expeditions to the Moon" to celebrate the successful landing of Chandrayaan-3 on the lunar south pole. The event









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featured educational talks, presentations, videos, a quiz competition, and a live telecast of the Vikram lander's soft touchdown, concluding with a standing ovation as the lander successfully touched down.

## In-house Training Workshop on Automation and Real-Time Interfacing of Experimental Setups, August 16-18, 2023

Mode: In-person

The Department of Physics, Prasanthi Nilayam Campus, conducted a two-day in-house training workshop on automation and real-time interfacing of experimental setups for postgraduate Physics students. The workshop featured Prof. Krishna Kumar, Former CECRI Scientist & Former Dean of Research, NCET, Bengaluru, and Mr. Augustin, Principal Scientist, Advanced Composites Division, CSIR-National Aerospace Laboratories (NAL), Bengaluru, as resource persons.

# Events Organised by the SSSIHL Institution's Innovation Council (IIC)

In addition to collaborating with various departments on multiple events, the SSSIHL IIC (Institution's Innovation Council) has organized several workshops, talks, and activities aimed at broadening students' exposure to diverse topics, people, and experiences. These initiatives are designed to help students cultivate an innovative mindset, empowering them to approach every opportunity in life with the right perspective and understanding.

#### Workshop on Management of IPR in International Business, March 20, 2024

On March 20, 2024, the Institution's Innovation Council held an online workshop on the "Management of IPR in International Business" with Sri Saikrishna Rajagopal, Founder and Managing Partner of Saikrishna & Associates. A renowned legal counsel, Rajagopal guided students through the fundamentals of Intellectual Property Rights (IPR), including their classification into industrial property and copyrights. The workshop covered trademarks, patents, and copyrights, along with governing laws. Students were introduced to notable legal cases, such as the Monkey Selfie Case, Delhi University Photocopying Case, and Hot News Case, gaining insights into IPR issues. They also explored international conventions like the Paris Convention, Berne Convention, WIPO Copyright Treaty, and TRIPS. The session provided a comprehensive understanding of IPR's role in international **business** 

#### Workshop on Inspire to Innovate: Cultivating Creative Solutions, March 16 & 30, 2024

The workshop "Inspire to Innovate: Cultivating Creative Solutions," organized by the Institution's Innovation Council at SSSIHL, aimed to enhance entrepreneurial skills and foster innovative business models. Held on March 16 and 30, 2024, it featured esteemed speakers and interactive sessions. The first session, led by Mr. Shalabh Mittal (CEO, School for Social Entrepreneurs India) and Mr. Shivam Kumar Dang (Head of Startup Ecosystem Growth at Simpl), focused on the



Business Model Canvas. Participants learned to identify key business model components such as customer segments, value propositions, and revenue streams, gaining insights into building sustainable business models.

In the second session, Mr. Vikas Bagri (Entrepreneur and Chief Evangelist, of Positive.Gifts) introduced the use of Chat-GPT to enhance creativity and innovation. Through demonstrations and exercises, participants explored how AI can generate new ideas and solve complex problems. The workshop successfully equipped participants with practical tools and insights to innovate and pursue entrepreneurship, empowering them to transform ideas into solutions for societal challenges.

# Field visit for proposed Atal Tinkering Labs, February 12, 2024

On February 12, 2024, a team from the Institution's Innovation Council at the Prasanthi Nilayam campus visited the Zilla Parishad Boys' High School in Kothacheruvu to explore the establishment of Atal Tinkering Laboratories (ATLs) as part of the Atal Innovation Mission. The initiative aims to nurture creativity, design thinking, and computational skills in students. Faculty and students from various science departments spent time at the school to assess ATL implementation possibilities. The Physics Department proposed offering internships to select students, while other departments launched activities to benefit both students and teachers.

#### Colloquium on Innovation in Science and Technology, February 10, 2024

A Colloquium on "Innovation in Science and Technology" was organized by the SSSIHL IIC on February 10, 2024, at the Prasanthi Nilayam Campus.

In the first session, Dr. Jurgi Camblong, Co-founder and CEO of Sophia Genetics, delivered a keynote address on the role of Artificial Intelligence (AI) in healthcare. He highlighted AI's limited adoption in healthcare and presented Sophia Genetics' mission to leverage AI, Deep Learning, and Machine Learning

for targeted cancer treatment. Dr. Camblong emphasized the need for decentralized AI-ML platforms and data-driven medicine, advocating cloud computing's role in improving AI accuracy. He encouraged aspiring entrepreneurs to persevere through challenges in innovation.

In the second session, Dr. Camblong was joined by Dr. Venkatramanan, CEO and Founder of Karkinos Healthcare, who discussed the complexities of innovation in medicine. He underscored the need for substantial capital, time, and strong medical connections. Dr. Venkatramanan stressed the importance of gaining recognition through publications in prestigious journals and adhering to norms to establish credibility. Both speakers emphasized collaboration, sharing knowledge, and maintaining intellectual honesty as key to advancing medical science.

#### National Startup Day 2024, January 16, 2024

The Institution's Innovation Council (IIC) hosted the National Startup Day 2024 on 16th January 2024 at Sai Hira Global Convention Centre, Prasanthi Nilayam, with the theme "Empowering Dreams, Igniting Innovation". The program started with the Vedam chanting followed by the ceremonial lighting of the lamp. Prof. B Raghavendra Prasad, Vice-Chancellor of SSSIHL welcomed the august gathering. Prof. Reddanna, Emeritus Professor from the University of Hyderabad, delivered a thought-provoking keynote address on the "Role of University in Promoting Start-ups." Dr. R. Venkataramanan, Founder and CEO of Karkinos Healthcare, shed light on the role of SSSIHL in building entrepreneurial skills. Mr. Naveen Lakkur, Chief Innovation Coach, shared profound insights about the two inseparable aspects of startups, i.e. Technology and Innovation, with the help of his book "The Inseparable Twins".

Sri Lakshmikant (Co-Founder, Value Craftz Advisors) moderated a dynamic panel discussion with eminent panelists exploring diverse facets of entrepreneurship. Dr. Anshuman Das, CTO, and Co-founder of Labby Inc., shared his fascinating "Startup Journey," followed by the release of the IIC Magazine, "SRISHTI" by the Revered Chancellor & Vice-Chancellor. Two faculty members of SSSIHL, Dr Murali Ravi, Dept of Physics, and Dr. B. E. Pradeep, Dept of Biosciences, were felicitated for their outstanding contributions towards innovation. Mr. M Sainath (Executive Director, ICFAI) moderated a panel discussion with industry leaders about adaptability, innovation, sustainability, and many more topics. The event concluded with a vote of thanks delivered by Dr. Swetha T, Asst. Professor, Dept of Management and Commerce followed by Mangala Aarati.

#### Manthan: Innovation Hackathon, December 2023 -January 2024

The IIC-SSSIHL organized Manthan: Innovation Hackathon 2023 to foster creativity, problem-solving, and entrepreneurial spirit among students, faculty, and researchers. The event aimed to address real-world challenges in sectors such as education, science & technology, agriculture, finance, cybersecurity, and social impact by encouraging participants to develop innovative solutions with commercialization











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potential. A total of 41 participants presented their business plan pitches to an expert panel within a timeframe. The hackathon's goal was to cultivate an entrepreneurial mindset and help transform ideas into practical solutions. The panel of industry leaders evaluated the pitches based on innovation, feasibility, scalability, market potential, social impact, and presentation.

# Talk on Sustainability and Innovation, December 23, 2023

Professor Bharat Dahiya from Thammasat University, Thailand, delivered an impactful talk on "Sustainability and Innovation" at the Prasanthi Nilayam campus of Sri Sathya Sai Institute of Higher Learning. Drawing from his academic and UN experience, he highlighted the urgent need to address climate change and meet the United Nations Sustainable Development Goals (SDGs). Prof. Dahiya emphasized the interconnected environmental, social, and economic challenges, advocating for innovative solutions like renewable energy and sustainable urban planning. He also stressed the role of social innovation and inclusive governance in fostering environmental stewardship and social equity. Drawing from his time at the UN, he encouraged students to become agents of change and leverage their education for the betterment of society and the planet. His talk offered a comprehensive view of the need for sustainable practices and inspired students to pursue innovation for a more equitable future.

# Poster Presentation at the Regional IIC Meet, December 11, 2023

Dr. Swetha Thiruchanuru, Innovation Coordinator, Dr. Padmaja, an IIC Faculty Member, and student members Ms. Apoorva Havisha and Ms. Asha Rani from SSSIHL, participated and presented a poster on "SSSIHL's Innovative Activities from 2021 to 2023" at the Regional Meet hosted by the Institution's Innovation Council (IIC) on December 11, 2023, at the Institute of Aeronautical Engineering, Hyderabad.

# Talk on Innovation and Entrepreneurship, November 17, 2023

On November 17, the IIC hosted a workshop for students at Sri Sathya Sai Higher Secondary School (Boys' Wing) in Puttaparthi, featuring Mr. Viswas Polepalli (Vice President at Teikametrics and SSSHSS alumnus) and Mr. Sunil Kumar (Proprietor of J K Brands & Solutions).

The workshop aimed to inspire students to think like innovators and to transform real-world problems into opportunities. In the second half, the focus shifted to entrepreneurship, encouraging youth to prioritize job creation over job seeking, and highlighting the importance of an entrepreneurial mindset in today's economy.

#### Talk on Entrepreneurship, Innovation & Business Model Canvas, November 16, 2023

On November 16, the IIC hosted a talk by Dr. Swetha Thiruchanuru for 70 students at Sri Sathya Sai Higher Secondary School (Girls Wing) in Puttaparthi. The session









focused on Entrepreneurship, Innovation, and the Business Model Canvas, aiming to inspire students to develop an entrepreneurial mindset.

Dr. Swetha addressed common inhibitions related to starting a business, encouraging students to embrace challenges and learn from failures. She introduced the concept of frugal innovations, highlighting resourcefulness and costeffectiveness in entrepreneurship, and shared examples of impactful global innovations. The interactive session allowed students to ask questions about the challenges and opportunities in entrepreneurship, successfully motivating them to cultivate an entrepreneurial spirit early in their academic journey.

#### Orientation for IIC Members, November 13, 2023

On November 13, 2023, the IIC held an orientation session for students and faculty members at SSSIHL, featuring Dr. P. Vanishree Sah as the guest of honor. The session began with welcoming remarks from Prof. Pallav Kumar Baruah and an inaugural address by Prof. B. Raghavendra Prasad, the Vice-Chancellor.

Dr. K. Sayee Manohar outlined the IIC's operations, while Dr. Swetha and Sri Vivek Kapoor presented a roadmap for upcoming innovation and start-up activities. Dr. B. E. Pradeep discussed the Kapila scheme and its significance in IPR, followed by Dr. Muralikrishna Molli, who explained the NIRF Innovation Ranking framework. Dr. Vanishree Sah praised SSSIHL's efforts in establishing the IIC and offered her support for its activities, wishing the council success in its endeavors.

#### SSSIHL Start-up Chapter, November 2023

The Start-up Chapter of IIC-SSSIHL, led by Vice-Chancellor Professor B. Raghavendra Prasad, focused on promoting innovation and entrepreneurship in Indian higher education during November 2023. Key initiatives included:

**Engagement with Rural Artisans:** From November 15 to 17, 2023, the student start-up club "BREAKTHROUGH" organized a three-day workshop where five award-winning rural artisans demonstrated their crafts and shared the challenges they faced. The club aims to develop solutions for market linkages, easy credit, and supply chain improvements to enhance the socioeconomic conditions of rural artisans.

**Short-Term Certificate Program on Enhancing Jeevan Kaushal:** The Institute hosted a 7-day certificate program from November 13 to 19, 2023, for MBA, MA in Economics, and M. Tech students, covering various contemporary skills.

- Day 1 focused on skills for Investment Managers and Fintech Entrepreneurs.
- Day 2 emphasized Human Resource skills, including team building and stress management.
- Day 3 trained students in Corporate Communication skills.
- Day 4 included sessions on LinkedIn optimization and case handling.
- Days 5 & 6 addressed transitioning from campus to corporate, culminating in a panel discussion with alumni.
- Day 7 featured a visit to Proto Village to expose students to

rural development through skill-based activities, aiming to identify consumer needs for socially impactful business ideas.

Overall, these initiatives aimed to foster a culture of creativity and problem-solving among students while addressing realworld challenges.

## Talk on R&D and Innovation in Academia for Growth for Sustainability, October 27, 2023

On October 27, the Institution's Innovation Council organized an online talk by Dr. Bijay Kumar Sahu, Head of Technology Innovation & Intellectual Property Facilitation at the National Research Development Corporation (NRDC), Govt. of India. Dr. Sahu discussed the KAPILA (Kalam Program for IP Literacy and Awareness) initiative, which supports Higher Education Institutions (HEIs) in filing patents and raising awareness about Intellectual Property (IP) among students and faculty. He emphasized the importance of fostering long-term innovation and urged institutions to develop their own innovation policies. Dr. Sahu outlined the four key steps in commercializing technology: invention disclosure, IP protection, commercialization, and IP tech marketing. He highlighted how IP bridges the gap between academia and industry, stressing the right to protect one's innovations.

#### **Other SSSIHL Events**

#### National Science Day 2024, February 28, 2024

SSSIHL celebrated National Science Day 2024 (NSD - 2024) in collaboration with Sri Sathya Sai Higher Secondary School, Smt Eswaramma High School, Sri Sathya Sai Vidya Vahini & Nexus Consulting at the Prasanthi Nilayam campus.

As part of these celebrations, multiple competitions such as Essay, Painting, Science Quiz, and modeling competitions were conducted between December 2023 and February 2024 for school students (Class 8 to Class 12) from across India to participate, culminating in the finals that were held on February 27th and 28th, 2024, at the Prasanthi Nilayam Campus. The competitions witnessed over 250 registrations from across India. On 28th February, the winners were all felicitated during the Valedictory ceremony.

#### Talk by Dr. Sailesh Rao on "The Greatest Transformation in Human History", February 05, 2024

Dr. Sailesh Rao's Founder and Executive Director of Climate Healers' spoke on "The Greatest Transformation in Human History" at the Sai Hira Global Convention Centre, Prasanthi Nilayam, on 5th February 2024 emphasizing the urgent need for a 'Healing' model for combating climate change caused by animal agriculture. During his highly thought-provoking and inspirational address, Dr. Rao urged humanity to reset and make choices that contribute to Earth's ecological balance and highlighted the importance of treating all living beings as family, shifting from a 'predator species' to a 'caretaker species'. Dr. Rao advocates for turning the world 'vegan' and embracing seven core shifts, including a culture of compassion and a service-driven economy. 30



The audience was also honored to listen to Dr. Nandita Shah, Founder and Director of 'SHARAN', an NGO, and recipient of the prestigious Nari Shakti Puraskaar for her valuable insights and perspectives on the subject.

Watch: https://www.youtube.com/watch?v=qAYqB3ZvT4w

# Sri Sathya Sai Academic Achievement Award, February 10, 2024

The Sri Sathya Sai Academic Achievement Award (SSS-AAA), a new initiative led by Director Prof. N. Srividya, was introduced to inspire, encourage, and motivate students to excel academically. The award recognizes top performers from each class and stream, celebrating their achievements during the Culture Hour with a token of appreciation. This thoughtful gesture was well-received, bringing joy to the students and fostering a spirit of academic excellence.

#### Talk on Circular Economy by Dr. Choudhury R. C. Mohanty, United Nations Centre for Regional Development (UNCRD/DESA), December 28, 2023

The MBA students and faculty members had the rare privilege to host Dr. Choudhury R. C. Mohanty, Environmental Coordinator of the United Nations Centre for Regional Development (UNCRD/DESA), Nagoya, Japan, during his visit to Prasanthi Nilayam from 27 to 29 December 2023.

Giving a glimpse into the UNCRD activities in the Asia Pacific Region, Dr. Choudhury spoke on the importance of Circular Economy to achieving the Sustainable Development Goals (SDGs). This is also a major thrust area in urban India under the national flagship Missions such as Swachh Bharat Mission-Urban.

#### Workshop on Gamification of the Teaching/Learning Process for Faculty, October 28, 2023

Sri Kartic Vaidyanathan, Founder of Lets Play To Learn, conducted a workshop on "Gamification of the Teaching/ Learning Process" for our faculty members on 28 October 2023 at the Brindavan campus. The session was designed to give the faculty a new perspective on the teaching/learning process through games.





Launch of Aditya L1: Concept to Realization and Beyond, by Prof. B. Raghavendra Prasad, September 02, 2023

India's first solar mission, Aditya L1, a groundbreaking venture was launched by the Indian Space Research Organisation (ISRO) on September 2, 2023. That morning, Vice-Chancellor Prof. B. Raghavendra Prasad, a renowned astrophysicist, and the Principal Investigator of the mission, delivered a talk to the students and faculty at the Prasanthi Nilayam campus auditorium on the landmark event sharing details of their journey from concept to realization of Aditya L1 and the mission's long-term scientific potential in understanding the Sun's influence on the solar system.

Appointed as the Principal Investigator, he and his team developed the mission's primary payload, the "Visible Emission Line Coronagraph" (VELC), to study the Sun's chromosphere and corona. This groundbreaking ISRO mission seeks to deepen our understanding of solar dynamics, solar winds, and space weather, contributing to advancements in Solar Astronomy and offering valuable data for predicting solar activities that impact Earth's space environment.

Watch: https://www.youtube.com/watch?v=oeEHlXyr964

#### Exploring Collaborative Pathways: SSSIHL and AIISH Interaction for Research and Innovation in Speech and Hearing Disorders, August 24, 2023

On August 24, 2023, an interaction session was held between the All India Institute of Speech and Hearing (AIISH) and the Sri Sathya Sai Institute of Higher Learning (SSSIHL) at the Multimedia Centre, Prashanti Nilayam Campus, SSSIHL. The AIISH delegation, led by Director Prof. M. Pushpavathi and Dr. Ram Kumar (CAO), was welcomed by key representatives from SSSIHL, including the Vice-Chancellor, Dean of Sciences, Director of PSN Campus, and faculty from various departments. Faculty members from other campuses participated online, and teams from Vidya Vahini and the General Hospital were also present. The session was co-chaired by the Director of AIISH and the Vice-Chancellor of SSSIHL. Prof. Pushpavathi delivered a presentation on AIISH, outlining its vision, mission, and ongoing activities, focusing on speech and hearing disorders, including stuttering, articulation issues, and their causes. She shared success stories and highlighted AIISH's provision of research grants for collaborative projects. The session aimed to identify areas of common interest and explore potential research collaborations between the institutions. Key collaboration areas identified included:

- **Dept. of Mathematics & Computer Science:** Development of apps and games for children with speech and hearing disorders.
- **Dept. of Food & Nutritional Sciences:** Exploration of the role of nutrition in therapy for speech and hearing-impaired children.
- **Dept. of Performing Arts:** Impact analysis of AIISH's work and creating customized music for music therapy.
- **General Hospital and Mobile Hospital:** Referring individuals with speech and hearing disorders for treatment.
- **Vidya Vahini:** Collaboration on content creation for children with speech and hearing disorders.
- **Internship Opportunities:** Sending SSSIHL students to AIISH for internships.
- **Depts. of Economics, Bioscience, and Chemistry:** Assistance in data analysis.

The session was successful in identifying interest groups and potential modes of engagement for future collaboration.

#### SSSIHL Celebrates Chandrayaan-3 Landing with Enthusiasm and Pride, August 23, 2023

On August 23rd, starting at 5:30 pm, faculty and students at the Prashanti Nilayam Campus of SSSIHL gathered to witness



the historic landing of Chandrayaan-3. Approximately 300 students and faculty members assembled at the university auditorium and the Multimedia Centre, eagerly anticipating the much-awaited moment. As Vikram, the Chandrayaan-3 lander, successfully touched down on the Moon's surface, the room erupted in thunderous applause, expressing collective joy and immense pride in India's achievement. The event concluded with the Director of the campus delivering closing remarks, praising the monumental success of ISRO scientists, some of whom had previously visited the campus during Space Week celebrations.

## Workshop on OBE - PEOs, POs, PSOs, and Curriculum Mapping, August 19, 2023

As part of its post-accreditation quality initiatives, the Internal Quality Assurance Cell (IQAC) at SSSIHL conducted the second episode of its OBE (Outcome-Based Education) workshop series on August 19, 2023, at the Prasanthi Nilayam Campus. This workshop, titled "PEOs, POs, PSOs, and Curriculum Mapping," followed the inaugural session, "Overview of OBE," held on July 4, 2023.

The workshop featured distinguished resource persons: Dr. Rani P. L., Associate Professor of English, former IQAC Coordinator, and current IQAC Advisor; Dr. S. Balasubramanian, Associate Professor of Mathematics and Computer Science, former Deputy IQAC Coordinator, and current IQAC Advisor; and Sri K. V. R. K. Bhargav, Deputy Manager (Administration) at the IQAC office.

Deans of faculties, Heads of Departments (HoDs), Assistant HoDs, and other designated nominees participated in the workshop. These representatives will further train the faculty members in their respective departments to support the gradual implementation of OBE in their programs.

#### 7-day Training Programme on the NAAC Quality Indicator Framework (QIF), July 25- August 04, 2023

Internal Quality Assurance Cell (IQAC) at SSSIHL, as a part of its post-accreditation quality initiative, completed a 7-day Training Programme on the National Assessment and Accreditation Council's Quality Indicator Framework! The Training Programme, held between 25th July and 4th August 2023, was mainly intended for the newly reconstituted IQAC team and the NAAC Criteria-Specific Steering Teams. The following 7 Criteria were covered and discussed in detail:

- Criterion-1: Curricular Aspects
- Criterion-2: Teaching-Learning and Evaluation
- Criterion-3: Research, Innovations, and Extension
- Criterion-4: Infrastructure and Learning Resources
- Criterion-5: Student Support and Progression
- Criterion-6: Governance, Leadership and Management
- Criterion-7: Institutional Values and Best Practices

The sessions gave the participants valuable and deep insights into the various metrics and their effective implementation at SSSIHL. Vibrant discussions ensued after every session to debate possibilities and challenges. 32

The distinguished resource persons, are Dr. Rani P L, Associate Professor of English, Former IQAC Coordinator, and currently Advisor to IQAC; Dr. S Balasubramanian, Associate Professor of Mathematics and Computer Science, Former IQAC Dy. Coordinator, and current Advisor to IQAC; and Sri K V R K Bhargav, Deputy Manager (Administration) - IQAC office, shared their rich experience, expertise, and guidance which enriched the sessions significantly.

#### 3rd Anniversary of the NEP 2020: Prime Minister's Address at the Akhil Bharatiya Shiksha Samagam, New Delhi, July 29, 2023

The Ministry of Education (MoE), along with the Ministry of Skill Development and Entrepreneurship (MoSDE), organized the 2nd Akhil Bharatiya Shiksha Samagam (ABSS) on the 29th and 30th of July 2023, to celebrate the 3rd anniversary of the National Education Policy (NEP) 2020. The Prime Minister's inaugural address on July 29, 2023, was broadcast live to the students.

In his address, the Prime Minister highlighted the significant strides made under NEP 2020 in transforming India's education system and fostering a knowledge-driven economy. He emphasized the importance of inclusivity, particularly in language, and underscored the need for "Discussion for Knowledge and Dialogue for Education." Sri Modi praised NEP 2020's forward-looking approach, which prepares students to meet 21st-century challenges and excel in the global economy.

The Prime Minister's speech was well-received, marking a positive step in the ongoing implementation of the NEP and reaffirming the government's vision for shaping the future of education in India.





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# **Faculty Achievements**

## **Biosciences**

• Dr. B.E. Pradeep received the "Second Best Start-up Award" together with SCIINV Biosciences Pvt Ltd for the development of "AMRxTM" during the workshop on "AI for Pharma & Biotech" conducted by the Federation of Asian Biotech Associations (FABA) and Science Gurus (USA) at the University of Hyderabad (December 16, 2023).

#### **Other Recognitions**

- Dr. Balram Khamari was invited as a Guest Expert in Microbial Art to the Doordarshan Studios, New Delhi, and featured on the DD Morning Show's special section called "Srijan" (March 13, 2024).
- Dr. Viswanathan was a member of the Jury Committee for the selection of project proposals under the "PRAYAAS-2023" scheme of the Department of Education in Science and Mathematics (DESM), NCERT at New Delhi (January 23-24, 2024).

## Chemistry

 Patent: Sri Manohar Bhujel, Prof. G. Nageswara Rao, and Dr. Sripada Lakshminath received a patent (202441015549) for 'A process for separation of Arjunolic acid and Asiatic acid from the heartwood of Terminalia arjuna, (March 22, 2024).

#### **Other Recognitions**

- Dr. B. Praphulla Chandra was selected to deliver an online presentation on "Determination of Airborne Microplastics Using LC-MS/MS" by the European Geo Union, Copernicus Meeting, Vienna, Austria (April 19, 2024).
- Dr. V. N. Ravi Kishore Vutukuri's abstract was accepted for an oral presentation at the prestigious American Chemical Society (ACS) Spring Meeting 2024, in New Orleans, USA (March 17-21, 2024).
- Dr. B. Praphulla Chandra was selected as an Associate Editor for the international peer-reviewed journal Elementa: Science of the Anthropocene - Atmospheric Sciences (January 29, 2024).
- Dr. B. Praphulla Chandra was invited as a resource person to deliver an online lecture on "Quality Assurance, Quality Control of Primary Air Pollutants Monitored for Online Measurement" at Central Pollution Control Board, Bengaluru, Karnataka (October 10, 2023).

## **Food & Nutritional Sciences**

• Prof. N. Srividya and Ms. Mounika Pandey (Team AvinyaVed) achieved a significant milestone by winning the prestigious "Tomato Grand Challenge (TGC)" organized by the Ministry of Education and Ministry of Consumer





Affairs, Government of India, which included a cash prize of ₹25,000 (May 16, 2024).

- Prof. (Hon.) B. Andallu was bestowed with the prestigious "Excellence in Life Science Samman" by the SIDVI Foundation during the "Puraskar for Avishkar" international award ceremony (April 9, 2024).
- Prof. N. Srividya and Ms. Sai Sruthi Shree (Team SAIOHM) won the second prize for their presentation "Poshak+ -Double Fortified Red Rice High-Protein Fudge/Burfi" in the Novel idea/Product Showcasing session at "FortiSF2O24, a Workshop for FRK Manufactures & Blenders and a Symposium on Technological Advancements in Staple Food Fortification" organized by the Innovation Hub on Rice Fortification (IHRF), Agricultural and Food Engineering Department of IIT Kharagpur (February 22-23, 2024).
- Prof. B. Andallu was honored with the "IWAA Indian Women Achievers Awards 2023" for her outstanding achievements in the field of education under the category of "Excellence in Education" at an award ceremony in Bengaluru (December 23, 2023).

#### **Other Recognitions**

- Prof. B. Andallu delivered the keynote address on "Herbs and Spices in the Prevention and Treatment of Stress-Induced Diseases" at the 7th International Conference on Food and Nutrition, organized by the Universal Society of Food and Nutrition (USFN) in collaboration with UCSI University, Malaysia (June 30, 2024).
- Dr. Jhinuk Gupta served as an organizing committee member and session chair at the 7th International Conference on Food and Nutrition, organized by the Universal Society of Food and Nutrition (USFN) in collaboration with UCSI University, Malaysia (June 30, 2024).
- Prof. N. Srividya was invited as a guest speaker to deliver a talk on nutrition, food safety, and embracing local traditions for the International Women's Day Celebration at JNTU, Anantapuramu (March 7, 2024).
- Dr. Jhinuk Gupta was selected as an organizing committee member for the upcoming "2nd International Conference on Clinical Nutrition and Dietary Lifestyle," organized by the Universal Society of Food and Nutrition in collaboration with Bioleagues (February 22-23, 2024).
- Dr. Jhinuk Gupta was selected as one of the section editors for the "International Journal of Nutrition" (IJN) (February 01, 2024).
- Dr. A. Sumana was nominated as an Associate Editorin-Chief in the "International Journal of Nutrition," STM Journals, a division of Consortium eLearning Network Pvt. Ltd. (January 31, 2024).
- Dr. A. Padmaja was appointed as a member of the UG Board of Studies in the Department of Food Science and Technology of Sri Sai Baba National Degree College (Autonomous), Anantapur (2023-2024).
- Prof. B. Andallu was invited as the Chief Guest for the "World Computer Literacy Day-2023" celebrations, organized by the Department of Computer Science & Applications, Sri A.S.N.M. Govt. College (A), West Godavari District, Andhra Pradesh, and delivered a talk on "Proper Use of Computer Knowledge and Computers by the Students." Also felicitated for acting as chief guest (December 02, 2023).
- Prof. B. Andallu delivered a talk on "Pollution Control" on the theme "Sustainable Development for a Clean and Healthy Planet" on National Pollution Control Day, organized by the Department of Chemistry, Sri A.S.N.M. Govt. College (A), Palakol, West Godavari District, Andhra Pradesh (December O2, 2023).
- Dr. M. Meera delivered a talk on "Pseudomillets The Undiscovered Nutricereals" at Vellalar College for Women, Erode, Tamil Nadu (September 25, 2023).



 Dr. A. Sumana was appointed as a University Nominee and subject expert for the UG and PG Combined Board of Home Science, Cluster University, Kurnool, for a period of three years (2023-2026) (September 02, 2023).

# **Humanities & Social Sciences**

#### **Economics**

#### **Other Recognitions**

- Dr. M. R. Geetha Bala delivered a set of lectures on "Classical Theories of Development" at St. Francis College for Women, Begumpet, Hyderabad (January 25, 2024).
- Dr. M. R. Geetha Bala chaired two sessions at the "8th International Conference on Economic Growth and Sustainable Development: Emerging Trends" (November 29, 2023).
- Dr. G. Raghavender Raju was selected as an evaluator of the essays during the "RBI-Policy Challenge 2023" (October 09, 2023).
- Dr. M. R. Geetha Bala delivered a series of lectures on "Time Management" at Andhra Pragati Institute of Bank Management (APIBM), Anantapur (August 17, 2023).
- Dr. M. R. Geetha Bala delivered a set of lectures on "Motivation" at Andhra Pragati Institute of Bank Management (APIBM), Anantapur (July 20, 2023).

# Languages & Literature

### English

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• Ms. Sai Archana M was awarded a 'Certificate of Merit' at the Wingword Poetry Prize 2023 in recognition of receiving an honorable mention and being selected as one of the top 100 finalists for their poem (December 2023).

#### **Other Recognitions**

- Dr. Sowmya Srinivasan was invited as a resource person and delivered a talk at a six-hour FDP on "Research Methods and Materials in English," organized by Raaj Academy, Chennai, India (May 2024).
- Dr. Maitali Khanna chaired a paper presentation session at the two-day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective organized by the Department of English and Foreign Languages, SRM Institute of Science and Technology, Chennai (March 2024).
- Dr. Aruna Kumar Behera was invited as a keynote speaker at the two-day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective organized by the Department of English and Foreign Languages, SRM Institute of Science and Technology, Chennai (March 2024).
- Dr. Aruna Kumar Behera chaired a paper presentation session at the two-day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective organized by the Department of English and Foreign Languages, SRM Institute of Science and Technology, Chennai (March 2024).
- Dr. Aruna Kumar Behera was invited as a keynote speaker at the two-day International Conference on Generational Gender Perspectives in Literature and Media - G2LM'23 organized by the Department of English & Foreign Languages, SRM Institute of Science & Technology, Tiruchirappalli Campus (March 2024).
- Dr. Aruna Kumar Behera chaired a paper presentation session at the two-day International Conference on Generational Gender Perspectives in Literature and Media
   G2LM'23 organized by the Department of English & Foreign Languages, SRM Institute of Science & Technology, Tiruchirappalli Campus (March 2024).
- Prof. Rani P.L. was nominated as the Chief Editor of Scienxt Journal of English (February 2024).
- Prof. Rani P.L. was invited to deliver a talk on "Self-Transformation - Idealism in Action" at the Young Adults Leadership Programme for Self-Transformation organized by the Sri Sathya Global Council (February 2024).

- Dr. Sowmya Srinivasan was invited as a resource person and delivered a talk on "Do You See the Bias? - Adopting Gender Neutral Language for Equality" at the One Day National Seminar organized by Dnyandeep College of Science & Commerce, Morvande-Boraj, Maharashtra (February 2024).
- Dr. Aruna Kumar Behera was invited as a keynote speaker for a webinar titled "Ambiguities in English," organized by DAV Autonomous College, Titilagarh (January 2024).
- Prof. Rani P.L. was invited to deliver a lecture on Postcolonial Studies at Kristu Jayanti College (November 2023).
- Ms. Sai Archana M was invited as a resource person to deliver a talk on "Use of AI Tools in Pedagogy of ELT" at the 7-Day Faculty Development Programme (FDP) on "Artificial Intelligence in Higher Education: Teaching and Learning Languages" conducted by Jain University, Bengaluru (November 2023).

### Sanskrit

#### **Other Recognitions**

 Prof. M. Praphulla was invited as a resource person for the "Three-Day National Seminar on Andhradesakathaa Samprdayah- Harikathaa," Narrative Discourses of South India: Texts, Traditions and Techniques, organized by the Department of Sanskrit Sahithya, Sree Sankaracharya University of Sanskrit, Regional Campus, Ettumanoor, Kerala (February 22 - 29, 2024).

### Telugu

### **Other Recognitions**

- Mrs. G. Yamuna Rani delivered an invited book review on "Kendra Yuva Sahithya Academy Award Winning Book Written by Appireddy Harinatha Reddy: Seema Sahithi Sarvam - Sri Sadhana Patrika" by SEVA Telugusahitya Seva Samstha (February 17, 2024).
- Mrs. G. Yamuna Rani was invited as a guest speaker for "Telugu Bhasha Dinostshavam - Padhya Ganam" by Yogi Vemana Foundation, Anantapur (August 29, 2023).



### **Management & Commerce**

- Dr. Sai Vinod M. S. won the "Best Paper Award" at the 14th International Research Conference on Thriving Through Sustainability, hosted by Indian Education Society's Management College and Research Centre, Mumbai, with joint partners Shaheed Bhagat Singh College, University of Delhi, European Global Varsity, European School of Data Science & Technology, and Confab 360 Degree (February 22-23, 2024).
- Ms. Akanksha Aggarwal was awarded the "Best Paper Award" at the International Conference on Re-Envisioning Agility, Sustainability and Technological Innovation in Manufacturing and Service Industry (RASTMSI 2024) organized by Vedatya Institute, Gurugram, for the paper titled "The 'What,' 'Why' and 'How' of Sustainable Fashion Apparel Consumption: A Systematic Literature Review Using TCCM Framework" (February 8-9, 2024).

#### **Other Recognitions**

- Dr. Suma Rao was a speaker on the topic "Mastery and Mindset: The Making of an Entrepreneur" in the 3rd International Seminar on Economic Impact of Entrepreneurship and Innovation in High Potential and Developing Economies organized by the School of Management and Commerce, MRUH (April 26, 2024).
- Dr. N. Jayapradha was a reviewer for the 1st International Conference on "Digital Transformation & Sustainability of Business (ICDTSB-2024)" organized by the Department of Management Studies, Vardhaman College of Engineering, Hyderabad (March 29-30, 2024).



- Dr. N. Jayapradha was invited as Technical Chair of MTEC 2024 (March 20-21, 2024).
- Dr. G. Padmavathy was invited as Chief Guest and Guest Speaker for the one-day National Conference on "Retail Congitate 2024," organized by PSG College of Arts and Science, Coimbatore (March 11, 2024).
- Dr. N. Jayapradha delivered a talk on the Empowerment of Female Entrepreneurs on the occasion of International Women's Day at RUDSETI, Anantapur (March 8, 2024).
- Dr. G. Padmavathy was appointed as an Editorial Board Member for i-manager's Publication Journal on Management (JMGT) (February 29, 2024), onwards.
- Dr. Chandrahaas C. S. was invited as the guest speaker at GRD Institute of Management's 'Compass' International Business Management Forum on the topic 'Leading from the Heart Powerful Lessons in Leadership and Life' (November 1, 2023).
- Dr. N. Jayapradha was nominated as a Governing Body member to the KSN Degree College for Women, Anantapur as a special invitee under Alumni category for a period of 5 years (June 2023).
- Dr. N. Jayapradha delivered a talk on Soft Skills for Women Empowerment at the induction program at KSN Degree College, Anantapur (August 29, 2023).
- Dr. N. Jayapradha delivered a talk on Entrepreneurship through Handicrafts Making at KSN Degree College, Anantapur (July 25, 2023).
- Dr. N. Jayapradha was nominated as a Governing Body member to the KSN Degree College for Women, Anantapur as a special invitee under Alumni category for a period of 5 years (June 2023).
- Dr. Swetha Thiruchanuru is a member of the Advisory Board at YUVA Incubated, one of the leading innovation hubs (2023).
- Dr. Suma Rao became a lifetime member of the Commerce and Management Association of India (CMAoI) (2023).

# **Mathematics & Computer Sciences**

- Dr. Y. Lakshmi Naidu was awarded the "Dr. K.V. Ranga Rao Best Teacher Award" for Excellence in Teaching in Sri Sathya Sai Values-Based Integral Education by the Sri Sathya Sai Institute of Higher Learning (January 2024).
- Dr. S. Balasubramanian and Dr. Darshan Gera secured a consolation prize in the AUTO WCEBLEEDGEN Challenge organized virtually by Medical Imaging and Signal Analysis Hub in collaboration with the 8th International Conference on Computer Vision and Image Processing (September 11 October 23, 2023).



 Dr. S. Balasubramanian was the first runner-up of DEPONDFI'23 (Detection of Pond Fish 2023 Challenge) held in conjunction with the 8th National Conference on Computer Vision, Pattern Recognition, Image Processing, and Graphics, organized by the Indian Institute of Technology, Jodhpur (July 21-23, 2023).

#### **Other Recognitions**

- Dr. N. Uday Kiran presented a poster on "An Algebraic Generalization of the Ramanujan Sum" at the International Conference on Legacy of Ramanujan 2024, Penn State University (June 6-9, 2024).
- Dr. N. Uday Kiran delivered an invited talk on "An Algebraic Generalization of the Ramanujan Sum and Its Applications" at the International Seminar on Physical Mathematical Sciences, organized by the Calcutta Mathematical Society (March 2-3, 2024).
- Dr. D. K. K. Vamsi was the Chief Guest for the 16th Annual Day Celebrations of Yasoda Concept School, Dharmavaram (January 26, 2024)
- Dr. D. K. K. Vamsi was a resource person in the Shortterm Course on Effective Teaching and Research Writing Involving Projects organized by Lovely Professional University (January 3-9, 2024).
- Dr. K. Vengata Krishnan served as a resource person in the Five-Day Faculty Development Programme on "Recent Advances in Applied Mathematics" organized by the Department of Mathematics, Sri Manakula Vinayagar Engineering College, Puducherry, India (September 4-9, 2023).

• Dr. Krishna Kiran Vamsi Dasu was the Lead Guest Editor for a special issue titled "Recent Trends in Mathematical Biology, Theory, Methods, and Applications" for the Computational and Mathematical Biophysics Journal (August 1, 2023).

# **Performing Arts**

• Sri Nishikant Barodekar was conferred the prestigious award "TAAL-RATNA-2023" for his contribution to Indian Classical Music by the Festival of Tabla, California Arts Council, Los Angeles, USA (July 30, 2023).

### **Other Recognitions**

• Sri Raghavendra K. Badasheshi participated as a judge for all the music events in the Karnataka State Women's University Vijayapura Inter-Collegiate Youth Festival conducted in Bidar (January 16-18, 2024).

# **Physics**

### **Other Recognitions**

- Prof. Deepa Seetharaman was invited to deliver a guest lecture (online) on "Role of Scientific Research in Achieving Sustainable Development" by Ethiraj College for Women, Chennai (February 17, 2024).
- Dr. Subbarao Kanchi delivered a colloquium talk on "Dendrimers Interaction with Fullerenes" as part of "Diving Deep into Physics" - A Colloquium Series of The Department of Physics, IIT Jodhpur (November 6, 2023).



## **Other Achievements**

### **CAS Gold Level Recognition for SSSIHL**

On November 3, 2023, the Casualty Actuarial Society (CAS) announced the recipients of the CAS University Recognition Program, aimed at acknowledging academic institutions that demonstrate a strong commitment to preparing future property and casualty actuaries through their educational offerings. The program offers three levels of recognition: Bronze, Silver, and Gold.

Sri Sathya Sai Institute of Higher Learning (SSSIHL) has been honored with the Gold Level, which is the highest level among these three categories. This prestigious status places us among the ranks of other top universities globally and distinguishes us as the sole recipient from Asia thus far.

The esteemed universities that have achieved the distinguished Gold Level status include Arizona State University, Brigham Young University, Bryant University, Georgia State University, Illinois State University, McMaster University, Middle Tennessee State University, Sri Sathya Sai Institute of Higher Learning, Temple University, University of California - Santa Barbara, University of Connecticut, University of Illinois Urbana-Champaign, University of Texas at Austin, University of Toronto, and University of Wisconsin-Eau Claire.

This achievement represents a significant opportunity for the SSSIHL Center of Excellence for Actuarial Data Science (CADS) to further expand its educational and research initiatives.

For more: https://www.casact.org/university-programs/casuniversity-recognition-list

# The Society of Actuaries (SOA) Recognises SSSIHL with UCAP-AC

The Society of Actuaries (SOA) USA has recognized SSSIHL at the UCAP-Advance Curriculum level for its academic program. SSSIHL stands as the sole university in India to have achieved this recognition to date.

For more: https://www.soa.org/institutions/sri-sathya-saiinstitute-of-higher-learning/



# **Research Scholar's Achievements**

# Chemistry

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- Sri Undavalli Venkata Gopi was the recevied the prestigious "ISPE 18 Young Researcher Travel Award," enabling him to attend the 18th International Symposium of Polymer Electrolytes (ISPE-18), organized by the American Chemical Society (ACS) Malaysian Chapter and co-organized by NanoMalaysia Berhad (NMB), co-joint with Lembaga Pembangunan Langkawi (LADA), Langkawi, Malaysia (June 23-28, 2024).
- Sri Manohar Bhujel got his patent published titled "A Process for Separation of Arjunolic Acid and Asiatic Acid from Heartwood of Terminalia Arjuna. Indian Patent Application No. 202441015549" (March 22, 2024).

#### **Other Recognitions**

- Sri Sai Athmeeya G. Shet got his abstract accepted for participation and poster presentation in the ACS Spring Meeting 2024 (online) on the topic "Design of Safer Novel Polymer Nanocomposites Involving Ceria Nanoparticles and Non-PVC Polymers for Biomedical Applications: A Molecular Dynamics Simulation Study" (March 17-21, 2024).
- Sri Sai Athmeeya G. Shet got his abstract accepted for participation and poster presentation on the topic "Exploring PVC-Plasticizer Interactions: Insights from Atomistic Molecular Dynamics Simulations and PMF Analysis" at JNCASR CECAM Conference MD@60 in Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore (February 26-29, 2024).



### **Food & Nutritional Sciences**

- Ms. Sai Dharshini S, under the guidance of Dr. Meera M., won the first prize (Prize Money Rs. 10,000/-) in "Ideathon" organized by Padmashree Institute of Management and Sciences as a part of the Conference on "Millet Confluence -An Extravaganza of Ideas and Innovation" (December 14-16, 2023).
- Ms. Mounika Pandey, under the guidance of Prof. N. Srividya, won the "Best Oral Presentation" for her paper entitled "Association of Dietary Insulin Index and Insulin Load on Diabetes, Obesity, and Cardiometabolic Health: A Scoping Review" at the 6th International Conference on Food and Nutrition Organized by the Universal Society of Food and Nutrition (USFN) (October 25-26, 2023).

#### **Other Recognitions**

- Ms. Beesetti Lohita was selected for a National level DST-Science and Engineering Board (SERB) sponsored High-End Workshop (Karyashala) & Hands-On Training on "Production and Characterization of Milk Derived Bioactive Compounds Using Advanced Instruments" organized by Southern Regional Station, ICAR-National Dairy Research Institute (Deemed University), Bengaluru, Karnataka, India, under the Accelerate Vigyan Scheme, Government of India (February 26 - March 06, 2024).
- Ms. Amrita Shaw, mentored by Dr. Jhinuk Gupta, including Ms. Shreya P. Sarathy, submitted and presented for the first round of the competition, a project titled "AI-Based Non-Invasive Framework to Reduce Post-Harvest Storage Loss of Tomatoes" under the Tomato Grand Challenge (TGC) organized by the Ministry of Education and Ministry of Consumer Affairs, Government of India (January 31, 2024).
- Ms. Alisha Pradhan, mentored by Dr. M. Srijaya, including Ms. Lohita Beesetti, Ms. Marutla Nithya, and Ms. Sanjana Suresh, submitted and presented for the first round of the competition, a project titled "Ready-to-Use Tomato Concentrate: A Culinary Alternative and Postharvest Losses Panacea for Tomatoes" under the Tomato Grand Challenge (TGC) organized by the Ministry of Education and Ministry of Consumer Affairs, Government of India. (January 23, 2024)

### **Management & Commerce**

• Sri R Sai Naveen received the "Best Paper Award" for his paper titled "Can We Make Our Leaders More Human?" in the Doctoral Colloquium held in XLRI Jamshedpur (February 2024).

#### **Other Recognitions**

 Sri R Sai Naveen's paper titled "Rationalising Vulnerability in Leadership; Systematic Review & Future Prospects" was selected for the 84th Annual Meeting of the Academy of Management held in Chicago, Illinois (August 9-13, 2024).



# **Faculty Participation**

### **Biosciences**

- Dr. B.E. Pradeep attended the American Society for Microbiology conference "ASM Microbe 2024" in Atlanta, USA, and presented the poster "Elimination of Airborne MDR Pathogens Isolated from RTI Patients: POC of ZeBox Technology" (June 16, 2024).
- Dr. B.E. Pradeep attended the American Society for Microbiology conference "ASM Microbe 2024" in Atlanta, USA, and presented the poster "Transforming UTI Diagnosis and Treatment with AMRx<sup>™</sup>, an AI/ML-Enabled Prediction Tool" (June 15, 2024).
- Dr. Ramya E.M. attended a ten-day online workshop on "Alassisted Manuscript Writing" (June 2024).
- Dr. Pallavi Cheguru and Dr. Ramya E.M. were invited as external examiners for poster evaluation of the 4th Semester Project at IBAB, Bengaluru (May 27-28, 2024).
- Dr. Sujith Kumar P. attended the 4th International Conference Series on "3R's Research and Progress -Patient-Derived Tumoroids and Humanized Mice" at Tech Mahindra Convention Centre, Mahindra University, Hyderabad, India (May 4, 2024).
- Dr. Pallavi Cheguru attended the UGC-Approved six-day short-term programme on "Design & Development of e-Content for Online Learning and MOOCs" (April 22-27, 2024).
- Dr. P. Jyothi Kumari and Mrs. B. Anusha received an Elite Online Certification for completing a twelve-week FDP Course on "Computational Genomics" organized by NPTEL (April 2024).
- Dr. V.N.S. Malleswara D attended a workshop on "Outcome Based Education and Application of Generative AI in Teaching and Research" (March 18-23, 2024).
- Dr. V.N.S. Malleswara D attended a one-week National Level Online Faculty Development Program on "Outcome Based Education and Application of Generative AI in Teaching and Research" (March 6-13, 2024).
- Mrs. B. Anusha participated in the National Symposium titled "A Holistic Approach to Sustainable Food Systems: Integrating Agriculture, Nutrition, and Food Safety" (March 1-2, 2024).
- Dr. V.N.S. Malleswara D attended a workshop on "Outcome Based Education and Essential AI Tools for Teachers" (December 14-20, 2023).
- Dr. A.S. Viswanathan delivered an oral presentation on "Simplifying Analysis and Treatment at the Domestic Wastewater Treatment Plant in Prasanthi Nilayam, Andhra Pradesh" at TECHNOSCAPE 2023 - 5th International Conference on Sustainable Technologies for Water and Wastewater Treatment organized by the School of Chemical Engineering, Vellore Institute of Technology, Vellore (December 14-16, 2023).

- Dr. Ramya E.M. attended an AICTE evaluated twoweek "Patent Course" organized by Turnip Innovations (November 19 - December 2, 2023).
- Dr. Pallavi Cheguru and Dr. P. Jyothi Kumari attended a seven-day National Level Online Faculty Development Program on "Outcome Based Education and Essential AI Tools for Teachers" (November 2-9, 2023).
- Dr. B.E. Pradeep received a "Certificate of Participation" for completing the Four-Phase Course "Dies ProGrant Proposal Writing for Research Grants India" with the University of Cologne and DAAD (November 2023).
- Dr. Balaram Khamari was invited to deliver a guest lecture at VIT, Vellore, India on "Microbial Mosaics" (September 20, 2023).
- Dr. B.E. Pradeep was invited as a Keynote Speaker for the session "AMR Data Management and Use" at the International Conference on Biotechnology in Health and Agriculture (ICBHA) - "Biotechnology for Sustainable Development in Agriculture, Environment, and Health" held at the University of Dhaka, Bangladesh (September O1-O3, 2023).
- Dr. B.E. Pradeep was invited as the Resource Person (online) by Sri Venkateswara University, Tirupati for a Refresher Course in Health Management. The title of the talk was "Emerging Bacterial Pathogens and Antimicrobial Resistance" (August 10-23, 2023).
- Dr. Ramya attended a seven-day National Level Online Faculty Development Program on "ChatGPT & AI Tools for Educators" (July 2023).
- Dr. Pallavi Cheguru attended the webinar: "HiBiT Technology Applications in Protein Secretion, Trafficking and Regulation" (June 8, 2023).
- Dr. V.N.S. Malleswara D attended a one-week Faculty Development Programme on "Teaching and Research Practices (Hybrid Mode)" (June 5-10, 2023).

### Chemistry

- Prof. Rajni Bhandari attended an online course on "NEP 2020 Orientation and Sensitization Programme" under the Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organized by Sri Guru Tegh Bahadur Khalsa College, University of Delhi (May 1-10, 2024).
- Dr. V. N. Ravi Kishore Vutukuri attended a ten-day online FDP on "NEP-Orientation & Sensitization" organized by Guru Angad Dev Malaviya Mission Teacher Training Centre, SGTB Khalsa College, University of Delhi (April 16-26, 2024).
- Dr. G. Pavana Kumari attended an online course on "NEP 2020 Orientation and Sensitization Programme" under the Malaviya Mission Teacher Training Programme (MM-TTP)

of the University Grants Commission (UGC) organized by the University of Hyderabad (March 18-26, 2024).

- Dr. V. Prathyusha attended an online course on "NEP 2020 Orientation and Sensitization Programme" under the Malaviya Mission Teacher Training Programme (MM-TTP) of the University Grants Commission (UGC) organized by the Regional Institute of Education, Mysuru (March 12-20, 2024).
- Dr. Santanu Roy attended a one-week long national-level FDP on "Outcome Based Education and Application of Generative AI in Teaching and Research" organized by the Internal Quality Assurance Cell (IQAC) of Government College Kottayam, in association with The Kerala State Higher Education Council (KSHEC) (March 6-13, 2024).
- Dr. Raji V. Nair and Dr. B. Praphulla Chandra attended an online certificate course on "Waste Characterization and Quantification" organized by the Centre for Science and Environment, New Delhi (March 5-8, 2024).
- Dr. V. N. Ravi Kishore Vutukuri attended a virtual user training workshop at The Oak Ridge Leadership Computing Facility (OLCF), Oak Ridge National Laboratory (ORNL), USA (February 28, 2024).
- Dr. Raji V. Nair and Dr. V. Prathyusha attended an online course on "Advanced Environmental and Energy Techniques (AEET 2023)" organized by the Department of Chemical Engineering, National Institute of Technology, Hamirpur, Himachal Pradesh (November 20-24, 2023).
- Dr. Raji V. Nair attended a short-term teacher's training program on "Sustainable Synergy" organized by BMS School, Yelahanka, Bangalore (November 6-10, 2023).

### **Education**

- Mrs. P. Padmambika participated in a one-day online workshop on "Data Analytics & AI" organized by the Centre for Computer Science and Information Technology (CCSIT), Manjeri, University of Calicut in association with ipsr Solutions Limited (June 15, 2024).
- Mrs. P. Padmambika participated in a five-day online "International Faculty Development Program on Digital Marketing" organized by MIT Arts Commerce & Science College (Autonomous), Maharashtra, Nishitha Degree College (Autonomous), Nizamabad, Telangana, Seshadripuram College, Tumakuru, Karnataka, and P.B. Siddhartha College of Arts and Science, Andhra Pradesh, in collaboration with ExcelR Edtech Pvt. Ltd. (May 27-31, 2024).
- Mrs. P. Padmambika and Dr. P. Lavanya presented a paper titled "The Role of Interdisciplinary Research in Addressing Complex Global Challenges and Fostering Innovation" in a one-day national webinar on "Research Methodology" sponsored by the Department of Higher Education (MP) and organized by the Government Degree College, Timarni (MP) (May 31, 2024).

- Mrs. B. Sai Soujanya Kumari attended the online workshop titled "Online Training of Trainers Empowerment Programme in Life Skills (IALSE-OTTEP 2024)" organized by the Indian Association of Life Skills Education (May 15-20, 2024).
- Mrs. B. Sai Soujanya Kumari attended the UGC-approved six-day short-term programme "Design & Development of e-Content for Online Learning and MOOCs" organized by Indira Gandhi National Open University, Staff Training and Research Institute of Distance Education (April 22-27, 2024).
- Dr. P. Lavanya attended a one-week "NEP 2020 Orientation & Sensitization Programme" conducted by MMTTC-RIE, Mysore (March 12-20, 2024).
- Mrs. B. Sai Soujanya Kumari completed a two-credit course on the topic "Interactive Science Teaching (Experimentation) (SO3a)" from the Centre of Excellence in Teacher Education, Tata Institute of Social Sciences (July-August 2023).

### **Food & Nutritional Sciences**

- Dr. Ambati Padmaja attended an online workshop on "Recent Trends in Food Technology and Entrepreneurship Opportunities," organized by Samath Global Food Consultants and supported by ANGRAU and the Ministry of Agriculture and Farmers Welfare (May 20-24, 2024).
- Dr. Ambati Padmaja attended online training on "Research Methodology: Techniques, Analysis and Presentation," organized by Scrollwell in collaboration with IIC GGI Ludhiana (April 29 - May 05, 2024).
- Dr. M. Meera attended an online course on "Waste Characterization and Quantification," organized by the Centre of Science and Environment (March 05-08, 2024).
- Dr. A. Sumana attended a UGC-approved six-day short-term online programme on "Design & Development of e-Content for Online Learning and MOOCs" (January 29 February 03, 2024).
- Prof. B. Andallu attended a webinar on "Unleashing Innovations in Curriculum Design with Outcome-Based Education," delivered by Ajay Bhagavat and organized by InPods Ed-Tech Inc, Seattle, Pune (January 04, 2024).
- Dr. Jhinuk Gupta completed the Innovation Ambassador (IA) Training "Foundation Level," conducted by the Ministry of Education's Innovation Cell, Government of India, and AICTE during the IIC calendar year 2022-23, online (December 04, 2023 - February 07, 2024).
- Dr. Ambati Padmaja gave an oral presentation on "Review on Valorisation of Vegetable By-Products" in Foods-2023: International Conference on Resurgence of Millets for Food Security and Sustainability, organized by M.O.P. Vaishnav College for Women (Autonomous), Chennai (December 14-15, 2023).

- Dr. Ambati Padmaja gave an oral presentation on "Utilization of Vegetable Processing By-Products in the Development of Value-Added Crackers" at the 3rd International Scientific Conference on Environmental Research: Issues, Challenges, and Strategies for Sustainable Development and Livelihood Security, organized by the Eurasian Academy of Environmental Sciences, at the Sub-Regional Science Centre, Karwar, Karnataka, India (Hybrid) (December 01-02, 2023).
- Dr. Jhinuk Gupta attended an AICTE-evaluated two-week online patent course (equivalent to 30 hours workload), organized by Turnip Innovations (November 19 December 02, 2023).
- Dr. Jhinuk Gupta attended a one-day online training program on "Quality Assurance & Quality Control in the Food Industry," organized by Food Yaari Education & Media Pvt. Ltd. (September 10, 2023).
- Dr. Tapasya Anand attended an online training program on "Introduction to Post Disaster Needs Assessment (PDNA)" organized by the Global Facility for Disaster Reduction and Recovery (GFDRR), United Nations, and The World Bank (August 24, 2023).
- Dr. Jhinuk Gupta delivered a talk on "Importance of Food Security and Safety in Sustainable Urban Development: Indian Scenario" at the International Conference on Sustainable and Inclusive Urban Development in Global South: International Experiences and Future Strategies, organized by the Institute for Human Development (IHD) and the Department of Urban and Regional Planning, University of Florida (UF) in partnership with Jawaharlal Nehru University (JNU) and the National Institute of Urban Affairs (NIUA), at India International Centre (IIC), New Delhi, India (August 10-12, 2023).
- Prof. B. Andallu attended a webinar on "100 Years of Glucagon," organized by the International Diabetes Federation (IDF), Diabetes Asia Study Group (DASG), and RX Events (November 04, 2023).
- Dr. Jhinuk Gupta attended a webinar on "Food: Adulteration, Additives, Fortification & Allergens," organized by Zenith Quality Assessors Pvt. Ltd. (September 09, 2023).
- Prof. B. Andallu and Dr. Jhinuk Gupta attended a webinar on "Designing Course Outcomes and Outcomes-Focused Questions," organized by InPods (August 04, 2023).
- Dr. Srijaya M and Dr. A. Sumana attended the sevenday national-level online faculty development program "ChatGPT and AI Tools for Educators," in line with OBE (July 19-26, 2023).
- Dr. Ambati Padmaja attended a three-day national-level online workshop on "Research Methodology: Techniques, Analysis and Presentation" (July 17-19, 2023).

- Dr. Ambati Padmaja attended a six-day national-level online faculty development programme on "Writing Successful Research Papers and Project Proposals for Funding Agencies," organized by the School of Agricultural Sciences, Malla Reddy University (June 23-29, 2023).
- Prof. B. Andallu attended a webinar on "Vitamins in 10 Questions," delivered by Dr. Tushar Shah and organized by Medflix (June 20, 2023).
- Prof. B. Andallu attended a webinar on "Exploring Google Bard AI for Teachers," organized by Scrollwell (June 20, 2023).
- Prof. B. Andallu attended a webinar on "Maximizing Your Research Efficiency with ProQuest One Academic," delivered by Srijith Sasidharan and organized by Clarivate (June 13, 2023).

### **Humanities & Social Sciences**

### **Economics**

- Dr. G Raghavender Raju and Sri Suresh Kumar Dahal participated and presented their research paper entitled "Nepal REER and Dutch Disease" in the ADBI-Nepal Rastra Bank-APAEA Joint Workshop on "Monetary Policy and Central Banking Issues in Asia and the Pacific" organised by the Asian Development Bank, Kathmandu, Nepal (March 29, 2024).
- Dr. G Raghavender Raju, Dr. Rajabhusan J Nayak, Dr. Siva Kiran Guptha, Sri Dinesh Kumar Choudhury, Sri B Sai Prabhakar, and Dr. Rajiv Gurung participated in the Faculty Development Programme on "Academic Ethics, Scientific Writing and Unit-Level Data" (October 25-29, 2023).
- Dr. G Raghavender Raju, Dr. Rajabhusan J Nayak, Dr. Siva Kiran Guptha, Sri Dinesh Kumar Choudhury, Sri B Sai Prabhakar, and Dr. Rajiv Gurung participated in the National Workshop on "Macro Stabilisation Policies for India During the Post-Pandemic Period" (August 26, 2023).

#### **Political Science**

 Mrs. A. Sujana attended online the "Professor Rajani Kothari Memorial Lecture Series on 'Rethinking Democracy' in India: Reflections on Contemporary Indian Democracy'' organized by Centre for Electoral Management Studies, TISS, CFRG, University of Delhi, Department of Political Science, SNDT Women's University, Mumbai. (December 2023).

# Languages & Literature

### English

- Dr. Nelli Vani Sri participated in a UGC-sponsored online refresher course in English, offered by UGC-MMTC, Bharathidasan University (June 5-18, 2024).
- Dr. Venkataramana B participated in the event "Shakespeare Studies" organised by the Shakespeare Society of Central India (April 2024).
- Dr. Sowmya Srinivasan attended a twelve-week FDP on "Twentieth-Century Fiction" organised by NPTEL-AICTE (January - April 2024).
- Prof. Rani P.L. participated in a webinar titled "ELT & AI: The Big Questions (Teaching, Learning & Assessment)" organized by Cambridge English Teaching (March 2024).
- Dr. Sowmya Srinivasan and Dr. Maitali Khanna attended an FDP on NEP-2020 Orientation & Sensitization, organised by the UGC-MMTC of Hyderabad (March 18-26, 2024).
- Dr. Aruna Kumar Behera participated in a four-day workshop on "Workshop to Finalize the LOs for English Language & English Literature of Grades XI & XII" organized by NCERT (February 26-29, 2024).
- Dr. Maitali Khanna participated in an International Faculty Development Programme on "Research Writing, Proposal Writing, And Research Grants" organised By Andhra Loyola Institute Of Engineering And Technology In Collaboration With The Office Of Internationalisation, Mindanao State University-Sulu, Philippines In Association With Cape Comorin Trust (February 23-29, 2024).
- Dr. Venkataramana B participated in a one-week International Faculty Development Programme on "Translation Studies From The Global South" organised by The Association Of Indian Universities (February 19-25, 2024).
- Dr. Vijayalekshmi R. participated in a one-week FDP on "Reading and Researching the Literature of Crisis" offered by The Department Of Humanities and Social Sciences, NIT Trichy and The UNESCO Chair in Vulnerability Studies, University of Hyderabad (January 22-28, 2024).
- Dr. Aruna Kumar Behera participated in a one-week national level online Faculty Development Program on "Outcome Based Education And Application Of Generative Ai In Teaching And Research" organised by DST-CURIE-AI Centre Of Sri Padmavati Mahila Visvavidyalayam (SPMVV University), Tirupati (December 4-10, 2023).
- Dr. Vijayalekshmi R. participated in a one-week short term course on "Film Studies: Pedagogy and Research Methods" offered by The Department Of Humanistic Studies, IIT (BHU) Varanasi (November 6-11, 2023).

- Ms. Aarthi R.M. participated in a one-Week national level online Faculty Development On "Deconstructing Folklore" Organised By The Career Development Cell, Gokul Global University (October 16-22, 2023).
- Dr. Vijayalekshmi R. participated in a UGC-sponsored shortterm course offered by The Centre For Translation of Indian Literatures, Jadavpur University, Kolkata in Collaboration with UGC-HRDC (August 01-07, 2023).
- Dr. Sowmya Srinivasan attended a six-day online lecture series on "Discourses on Disability" organised by CMS College, Kottayam (July 26 August 01, 2023).
- Dr. Sowmya Srinivasan attended a six-day short-term Faculty Training Programme on IKS, organised by IIT, Madras (July 21-26, 2023).
- Prof. Rani P.l. participated in a seven-day national level online Faculty Development Program, organised by St Joseph's College (Autonomous), Irinjalakuda in Association with the Kerala State Higher Education Council (July 19-26, 2023).

### Sanskrit

- Dr. M B S S Narayana presented a paper and gave a talk at the two-day national seminar on "पुराणपुरुषोत्तमः श्रीवेङ्घटनायकः" (Purana Purushottamah Sri Venkata Nayakah) conducted by National Sanskrit University (A Central University), Tirupati (February 15-16, 2024).
- Dr. Mahabala Rao M G participated in the Faculty Development Program on "Saaptaahika Shikshakaabhyudaya Karyakramaha" conducted by National Samskrit University, Thirupathi (January O2-O8, 2024).
- Dr. Mahabala Rao M G participated in the Faculty Development Program on the "NEP 2020 Orientation & Sensitization Programme" conducted by the Malaviya Mission Teacher Training Programme (MMTTC) (January 02-11, 2024).
- Dr. Mahabala Rao M G participated in a workshop on the topic "Indian Knowledge System and Its Multidisciplinary Approach" conducted by the Center for Indian Knowledge Systems, Vasantha College for Women, KFI Rajghat, Varanasi (December 11-16, 2023).
- Dr. M B S S Narayana participated in a seven-day Faculty Development Program on "Artificial Intelligence in Higher Education" organized by Jain Deemed University, Bangalore (November 16-28, 2023).
- Dr. M B S S Narayana participated in the five-day online short-term "Teachers Training Program on Sustainable Synergy: Exploring Green Tech and Materials in Architecture" conducted by BMS School of Architecture, Yelahanka (November 06-10, 2023).

- Dr. M B S S Narayana participated in a workshop on the topic "Devataayatanam" conducted by Central Samskrit University, Rajeev Gandhi Campus, Sringeri (November 04-10, 2023).
- Dr. M B S S Narayana participated in an online presentation workshop organized by Ashok Singhal Vedic Research Institute (November 01, 2023).
- Dr. M B S S Narayana participated in a seven-day Faculty Development Program on Sanskrit titled "Building Bharat Through Sanskrit" organized by Avinash College of Commerce, Kukatpally (October 04-10, 2023).
- Dr. M B S S Narayana participated in a workshop, "Scrollwell

   Three Days National Level Workshop on Research Methodology: Techniques, Analysis, and Presentation" organized by the Ministry of Education's Institution Innovation Council, Gulzar Group of Institutes, Ludhiana, Punjab (July 17-19, 2023).

#### Telugu

- Mrs. G. Yamuna Rani attended and presented a paper at the two-day national conference on "Samskrutandhra Navala Sahithyam - Samajika Chaithanyam" organized by the Department of Telugu, Acharya Nagarjuna University, Guntur (February 14-15, 2024).
- Mrs. G. Yamuna Rani attended the "Two-Day Online National Workshop on Research Methodology" organized by P R R & V S Govt. College, Vidavaluru Research Centre
   Department of Telugu, D K Govt. College for Women (A), Nellore. (December 09-10, 2023).
- Mrs. G. Yamuna Rani attended the Orientation Programme for "Language Teachers / Prospective Teachers (B.Ed. Holders) Lecturers / Research Scholars in Tamil and Telugu" organized by The Southern Regional Language Centre, Central Institute of Indian Languages, Mysuru, Karnataka (July 11-18, 2023).

### **Management & Commerce**

- Dr. Swetha Thiruchanuru participated in the one-week online Faculty Development Programme and workshop on "Entrepreneurship and Innovation Management" jointly organized by DSCASC, Bengaluru, and CMAOI Association (June 24-28, 2024).
- Ms. Akanksha Aggarwal attended a Faculty Development Program on "Advancing Teaching Excellence" conducted by IIMBx-Digital Learning Foundation (April 12, 2024).
- Dr. Swetha Thiruchanuru completed the "Business Analysis and Process Management" Coursera project work (April 2024).
- Dr. C. Jayashree, Ms. Priyanka Raju, and Prof. N. Sivakumar attended an online Faculty Development Programme on "NEP-2020 Orientation and Sensitization" under the Malaviya Mission Teacher Training Programme (MM-TTP)

of University Grants Commission (UGC), organized by Malaviya Mission Teacher Training Centre, University of Hyderabad (MMTTC-UoH) (March 18-26, 2024).

- Prof. N. Sivakumar, Sri M. S. Sai Vinod, and Sri Rajeev Rajan attended the 14th International Research Conference on "Thriving Through Sustainability," organized by IES's Management College and Research Centre, Mumbai (February 22-23, 2024).
- Sri L. K. Prasad Rayaprolu attended a two-week AICTEevaluated patent course by Turnip Innovations. (January 24 - February 06, 2024).
- Sri Rajeev Rajan attended an eight-day national-level online Faculty Development Programme on "Research Methodology Using ChatGPT and AI Tools." (November 23 -December 01, 2023).
- Dr. C. Jayashree participated in a seven-day national-level online Faculty Development Program on "Outcome-Based Education and Essential AI Tools for Teachers" organized by The Internal Quality Assurance Cell (IQAC) and The Department of Computer Science, St. Albert's College (Autonomous), Ernakulam, in association with The Kerala State Higher Education Council (KSHEC) (November O2-O9, 2023).
- Dr. Sayee Manohar K attended an FDP on "Outcome-Based Education (OBE) Essential AI Tools" in association with KSHEC (August 10 October 18, 2023).
- Sri Sanjay Sahni attended a five-day online Faculty Development Programme on "Inculcating Universal Human Values in Technical Education" organised by AICTE (October 02-06, 2023).
- Dr. G. Padmavathy attended the online eight-day nationallevel Faculty Development Programme on "Case-Based Learning, Teaching, Writing, and Publication" organized by Vignan Deemed to be University (September 25 - October 03, 2023).
- Dr. G. Padmavathy and Sri L. K. Prasad Rayaprolu attended the online eight-day national-level Faculty Development Programme on "Research Methodology Using ChatGPT and AI Tools" organized by the PG Department of Computer Science, IQAC, Marian College, Kuttikkanam, in association with the Kerala State Higher Education Council (September 21-29, 2023).
- Dr. U. Suma attended a webinar on "Designing Course Outcomes and Outcomes-focused Questions" conducted by Ajay Bhagwat, Director, Inpods, India (August 04, 2023).
- Dr. C. Jayashree attended an online workshop on "Financial Modeling & Analysis" organized by Meerashpa Learning Solutions (July 17-21, 2023).
- Ms. Akanksha Aggarwal attended a one-week Faculty Development Programme on "Structural Equation Modelling Using SMART PLS" organized by FOSTIIMA Business School, New Delhi (July 03-09, 2023).

• Sri L. K. Prasad Rayaprolu attended an online workshop on "Publish Papers in Scopus and ABDC Indexed Journals: Tools & Techniques" organized by MTC Global Leadership Institute (June 24-25, 2023).

### **Mathematics & Computer Sciences**

- Dr. K. Sreeranga Vani participated and completed the short-term programme on "ICT Applications in Evaluation and Assessment" organised by Malaviya Mission Teacher Training Centre, Indira Gandhi National Tribal University, Amarkantak (MP) (May 25-31, 2024).
- Sri Sreepada V. Sathya N. Sarma attended a one-week national-level online FDP on "Emerging Research Trends in Computer Science" organised by the Department of Computer, Chaitanya Bharathi Institute of Technology (Autonomous), Hyderabad (April 22-26, 2024).
- Dr. K. Sreeranga Vani participated in a five-day online FDP on "Advanced Research in Fluid Mechanics" organised by the Division of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Chennai (April 01-05, 2024).
- Ms. Lakshmi Priya R participated in the International Level Virtual Faculty Development Programme on "AI for Educators: A Six-Day Faculty Development Journey" organised by the Department of Software Engineering, Periyar Maniammai Institute of Science and Technology, Vallam, Thanjavur, Tamil Nadu (March 18-23, 2024).
- Dr. Y. Lakshmi Naidu attended a 40-hour Faculty Development Programme on "Optimization Techniques for Engineering Applications" organised by NIT, Warangal (March 11-22, 2024).
- Ms. Lakshmi Priya R attended a five-day Faculty Development Programme on the "Concept of Pure and Applied Mathematics" jointly organised by Parul University and Gujarat Ganit Mandal (March 11-15, 2024).
- Sri P. Sunil Kumar attended an FDP on "Role of Artificial Intelligence for Computer Vision and Medical Imaging Applications" sponsored by the Ministry of Electronics and Information Technology (MeitY), GoI, and organised by E&ICT Academy, NIT Warangal, and Muffakham Jah College of Engineering and Technology, Hyderabad (March 04-12, 2024).
- Ms. Lakshmi Priya R completed the NPTEL-AICTE Faculty Development Programme on "Programming, Data Structures, and Algorithms Using Python" organised by IIT Madras (January 22 - March 15, 2024).
- Dr. K. Sreeranga Vani participated in a five-day Faculty Development Programme on "Mathematics in Engineering and Science: Importance and Applications" organised by the Department of Mathematics, School of Advanced Sciences, VIT-AP University, Andhra Pradesh (January O2-O6, 2024).

- Sri Sreepada V. Sathya N. Sarma attended a short-term training program "Spoken Samskrutham" organised by Samskrutha Bharathi (October 21-30, 2023).
- Dr. Srinath participated in and completed the six-day Online UHV-II FDP organised by the All-India Council for Technical Education (AICTE) (October 16-21, 2023).
- Dr. Kurma Rao Tyada participated in the seven-day national-level online Faculty Development Programme on "Curriculum Framework in Line with NEP 2020, OBE, and AI Advancements" organised by the Internal Quality Assurance Cell (IQAC), Mar Thoma College for Women, Perumbavoor, in association with the Kerala State Higher Education Council (KSHEC) (October 12-19, 2023).
- Mrs. Gorle Santoshi Kumari attended an eight-day nationallevel Faculty Development Programme on "Research Methodology Using ChatGPT and AI Tools" (September 21-29, 2023).
- Dr. Darshan Gera attended a refresher course in Mathematical Sciences (Theme: Foundations in Vedic Mathematics) organised by the Teaching Learning Centre and Department of Mathematics, Ramanujan College, University of Delhi (September 01-14, 2023).
- Sri Sreepada V. Sathya N. Sarma attended a one-week national-level faculty development program on "Cloud Infrastructure (AWS)" organised by Pragati Engineering College, Surampalem, Andhra Pradesh (August 21-25, 2023).
- Sri P. Sunil Kumar attended an online course on "Summer School on Deep Learning" conducted by the Computer Society of India, Kolkata (July 29 - August 24, 2023).
- Dr. S. Balasubramanian participated in the 8th National Conference on "Computer Vision, Pattern Recognition, Image Processing, and Graphics" organised by IIT Jodhpur (July 21-23, 2023).
- Dr. K. Sreeranga Vani attended a one-week international Faculty Development Programme on "Mathematics in Real, Applied, and Computational Domains" organised by the Department of Mathematics, School of Science and Humanities, Sathyabama Institute of Science and Technology, Chennai (July 03-08, 2023).
- Dr. Srinath attended a short-term training on "Cyber Defense Engineering Using Python" (July O4 - August 27, 2023).
- Dr. K. Sreeranga Vani attended and presented a research paper titled "Couple Effect of Inclined Magnetic Field and Non-Linear Thermal Radiation on Non-Darcy Connective Heat and Mass Transfer Flow of Chemically Reacting Nanofluid Past a Vertical Wavy Surface with Irregular Heat Sources" at the International Conference on Innovations and Development of Mathematics, S.K. University, Anantapur (June 28-30, 2023).

- Dr. N. B. Gayathri participated in a five-day online FDP on "Discrete Mathematics" organised by the Department of Mathematics, Vellore Institute of Technology (VIT) (June 13-17, 2023).
- Dr. N. B. Gayathri participated in a ten-day online FDP on "Applications of Machine Learning and the Internet of Things in Smart Cities" organised by NIT Warangal (June 13-23, 2023).
- Dr. K. Sreeranga Vani attended the FDP on "Applications of Machine Learning and the Internet of Things in Smart Cities" organised by NIT Warangal (June 13, 2023).
- Dr. K. Sreeranga Vani attended the FDP on "Differential Equations" organised by the Division of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Chennai (June 12-16, 2023).

### **Performing Arts**

- Sri Nishikant Barodekar performed and conducted a tabla workshop at the Lovely Professional University Campus Hall, invited by Puratan Kala Punjab Gharana Tabla Vadan Sikhya Kendra, Jalandhar, Punjab (April 19, 2024).
- Sri Nishikant Barodekar, Sri D. Anantha Rao, Sri S. Sai Ram, Sri Raghvendra K. Badasheshi, Sri P. S. Sreenivasan, Sri Jagdish Kanadia, Sri Priyam Chaturvedi, and Sri R. Mahesh Varma attended an online FDP on "Outcome-Based Education and Application of Generative AI in Teaching and Research" organised by the DST-CURIE-AI Centre of Sri Padmavati Mahila Visvavidyalayam (SPMVV University), Tirupati (March 18-23, 2024).
- Sri S. Sai Ram, Sri Jagdish Kanadia, and Sri Raghavendra K. Badasheshi participated as a resource person in the national webinar organised by the Music & Dance Department, Govt. Autonomous Girls P.G. College of Excellence, Sagar (M.P.) (July 27-28, 2023).

### **Physics**

- Dr. Swarup Kundu participated in the online workshop on "Data Analytics & AI" organised by the Centre for Computer Science and Information Technology (CCSIT), Manjeri, University of Calicut, in association with IPSR Solutions Limited (June 15, 2024).
- Dr. Swarup Kundu attended a professional development programme on "Energy and Environmental Management" organised by the National Institute of Technical Teachers' Training and Research (NITTTR), Chennai (June 10-14, 2024).
- Dr. Vedavathi Aluri participated in the Faculty Development Programme on "Quantum Enables Science and Technology (QUEST-2024)" organised by Kakathiya Institute of Technology and Science (KITSW) in association with Centre for Training and Learning, NIT Warangal (May 20-24, 2024).

- Dr. Sai Muthukumar V actively participated and completed the online Faculty Development Programme (FDP) on "Density Functional Theory Modelling of Materials: Crystals, Thin Films, and Nanomaterials (DFT-M)" organised by the Centre for Advanced Computational Research, Delhi (April 28 - May O4, 2024).
- Dr. Sumukh Nandan R attended a Faculty Development Programme under the Malaviya Mission Teacher Training Programme (MM-TTP) of UGC on the theme "NEP 2020: Orientation and Sensitization" organised by the UGC Malaviya Mission Teacher Training Centre, Aligarh Muslim University, Aligarh, and obtained Grade A+ (April 16-25, 2024).
- Dr.Vedavathi Aluri participated in the Faculty Development Programme on "Density Functional Theory Modelling of Materials: Crystals, Thin Films and Nanomaterials (DFT-M)" organized by the Centre for Advanced Computational Research, Delhi from (March 4-10, 2024).
- Dr. Paramesh Gadige participated in and presented research work at the International Conference on "Advanced Functional Materials and Devices" (AFMD 2024), held at SRMIT, Chennai, India (February 26-29, 2024).
- Dr. Subbarao Kanchi participated and presented a poster titled "In Silico Energetic and Molecular Dynamic Simulations Studies Demonstrate Potential Effect of the Point Mutations with Implications for Protein Engineering in BDNF" at the JNCASR-CECAM Conference MD@60, held at JNCASR, Bengaluru (February 26-29, 2024).
- Prof. Deepa Seetharaman attended a Faculty Development Programme on "Medical Biomaterials" (NPTEL Course) conducted on the SWAYAM platform (January 22 - March 24, 2024).
- Dr. Swarup Kundu participated in the IEW, IoTshow workshop, SmartBharat, and B2B Tech Expo organised by Electronics for You at KTPO, Whitefield, Bengaluru (January 31 February 02, 2024).
- Prof. R. Gowrishankar was invited to deliver a talk on "SSSIHL: A Modern Gurukula That Shapes Your Future" at the Sathya Sai Seva Samithi, Sundaram, Chennai (January 20, 2024).
- Prof. Deepa Seetharaman, Dr. K. Vijay Sai, and Prof. R. Gowrishankar attended the 67th DAE Symposium on Nuclear Physics (SNP-2023) organised by DAE-BRNS, Bhabha Atomic Research Center (BARC), conducted at IIT Indore (December 09-13, 2023).
- Dr. K. Vijay Sai and Dr. C. Prathibha participated and completed the AICTE-recognised Faculty Development Programme on "Materials Characterization Techniques" conducted online by the Applied Science Department at NITTTR, Chandigarh (December 04-08, 2023).

- Dr. Vedavathi Aluri and Dr. Lavanya Rathi P participated in the Faculty Development Programme on "Outcome-Based Curriculum Development" organised by the Curriculum Development Centre Department, National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh (September 11-15, 2023).
- Dr. Sai Muthukumar V participated in SCDA-2023 and completed an online Faculty Development Programme on "Satellite Communications: Design Perspectives and Applications" (August 21-26, 2023).
- Dr. C. Prathibha attended an online workshop on "Advanced ChatGPT for Innovation" conducted by Turnip (August 18, 2023).
- Prof. R. Gowrishankar attended and participated in the "IPR Awareness/Training Program" under the National Intellectual Property Awareness Mission of the Ministry of Commerce and Industry, Govt. of India (August 12, 2023).
- Prof. Deepa Seetharaman attended the 8th International Conference on Women in Physics, conducted by the Indian Physics Association (IPA), Tata Institute of Fundamental Research (TIFR), and The International Union of Pure and Applied Physics (IUPAP) (July 10-14, 2023).
- Dr. C. Prathibha participated in an online national-level guest lecture on "Nanoscience and Nanotechnology for a Better Future" organised by KLU (June 30, 2023).
- Prof. Deepa Seetharaman attended a Faculty Development Programme on "Entrepreneurship and Start-Ups in Context of NEP 2020" organised by the National Institute of Technical Teachers' Training & Research (NITTTR), Bhopal (June 19-23, 2023).



# **Research Scholar's Participation**

### **Biosciences**

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- Sri Datta Darshan presented a poster at the MD@60 conference organised by JNCASR-CECAM titled "In Silico Energetic and Molecular Dynamic Simulations Studies Demonstrate Potential Effect of the Point Mutations with Implications for Protein Engineering in BDNF" (February 26-29, 2024).
- Sri Datta Darshan attended a workshop on Biomolecular Simulations & Drug Discovery organized by the Centre for Computational and Integrative Sciences (CCIS), SRM University - AP. This five-day event provided a comprehensive understanding of the theory, techniques, and tools in the field, including Post-MD analysis methods and the use of GROMACS, a widely recognized molecular dynamics simulation software (January 29 - February O2, 2024).
- Sri Sahashransu Satyajeet Mahapatra presented a paper titled "Response Surface Methodology to Optimize the Treatment of Domestic Wastewater Using a Plant-Based Coagulant" at TECHNOSCAPE 2023 - 5th International Conference on Sustainable Technologies for Water and Wastewater Treatment organized by the School of Chemical Engineering, Vellore Institute of Technology, Vellore (December 14-16, 2023).
- Sri Kanikaram Sai Phalguna attended a National Workshop on "Zebrafish as a Model for Clinical Research" organized by Mahatma Gandhi Medical Advanced Research Institute (MGMARI), Sri Balaji Vidyapeeth (SBV), Puducherry (December 05, 2023).

# Chemistry

- Sri Undavalli Venkata Gopi attended "18th International Symposium of Polymer Electrolytes (ISPE-18), organized by the American Chemical Society (ACS) Malaysian Chapter and co-organized by NanoMalaysia Berhad (NMB), co-joint with Lembaga Pembangunan Langkawi (LADA), Langkawi, Malaysia" (June 23-24, 2024).
- Sri Chintha Jagadeesh was selected for and executed a short-term research project entitled "Synthesis and Characterization of Nano Thin Films for Plasmonic Applications" at Photonics Systems Lab, Department of Physics, IIT-Kharagpur under Dr. B. N. Shivakiran Bhaktha as part of the INUP-i2i programme organized by the Ministry of Electronics and Information Technology -MeitY, Govt. of India (June 14-26, 2024).
- Sri Mainak Mukherjee attended a one-day webinar on "DFT with SIESTA" (March 19, 2024).
- Sri Sai Athmeeya G Shet participated and presented a poster in online mode on the topic "Design of Safer Novel Polymer Nanocomposites Involving Ceria Nanoparticles and Non-PVC Polymers for Biomedical Applications: A Molecular Dynamics Simulation Study" at the ACS Spring Meeting 2024 (March 17-21, 2024).

- Sri Mainak Mukherjee attended a Questaal workshop on "Many-body Perturbation Theory" at the National Renewable Energy Laboratory, Colorado via online mode (March 11-14, 2024).
- Sri Sai Athmeeya G Shet participated and presented a poster on the topic "Exploring PVC-Plasticizer Interactions: Insights from Atomistic Molecular Dynamics Simulations and PMF Analysis" at JNCASR - CECAM Conference MD@60 in JNCASR, Bangalore (February 26-29, 2024).
- Sri Chinta Jagadeesh participated in a one-day research facility training program, limited to 10 participants, organized by CRDC, HILL Lifecare Ltd, Thiruvananthapuram, for the project on developing metalreduced carbon nanomaterials for paper-based optical biosensors for malaria detection (December 19, 2023).
- Sri Dipti Ranjan Pati attended the "Essential Statistical Concepts for Scientific Research" training program via online mode (November 2023).
- Sri Mainak Mukherjee attended a workshop titled "Density Functional Theory" by the Centre of Advanced Computational Research, Delhi via online mode (July 07-13, 2023).

### **Food & Nutritional Sciences**

- Ms. Amrita Shaw attended a 2-day training program on "Data Analysis Using Unscrambler Software," organized by Science4U, Head Office - Bangalore (June 20-21, 2024).
- Ms. Amrita Shaw attended an Online Workshop on "Data Analytics & AI" organized by the Centre for Computer Science and Information Technology (CCSIT), Manjeri, University of Calicut in association with IPSR Solutions Limited (June 15, 2024).
- Ms. Mounika Pandey and Ms. Beesetti Lohita attended the "Recent Trends in Food Technology and Entrepreneurship Opportunities" internship organized by Samath Global Food Consultants (May 20-24, 2024).
- Ms. Mounika Pandey attended the "ICC Workshop" organized by BCP Associates (March 03, 2024).
- Ms. Sparsh Sumnirom Subba attended a 5-day hands-on training workshop on "Basic Techniques in Animal Cell Culture" at CSIR-Center for Cellular and Molecular Biology (CCMB), Hyderabad (February 26 - March 01, 2024).
- Ms. Sai Sruthi Shree presented a paper titled "Nutritional Evaluation of Bioprocess Based Fortified Indian Traditional Pigmented Rice Varieties to Address Iron Deficiency Anemia" in "FortiSF2O24, a Workshop for FRK Manufactures & Blenders and a Symposium on Technological Advancements in Staple Food Fortification" organized by the Innovation Hub on Rice Fortification (IHRF), Agricultural and Food Engineering Department of IIT Kharagpur (February 22-23, 2024).

- Ms. Sparsh Sumnirom Subba presented her research work entitled "A Study on the Efficacy of Probiotics in Improving Iron Absorption" in the National Seminar on "The Microbiome Revolution: From Fundamental Science to Therapeutic Innovations" organized by the Department of Microbiology, Bhavan's Vivekananda College of Science, Humanities & Commerce, Secunderabad and the Microbiologists Society of India (January 25, 2024).
- Ms. Sai Dharshini S attended the Conference on "Millet Confluence - An Extravaganza of Ideas and Innovation," organized by Padmashree Institute of Management and Sciences (December 14-16, 2023).
- Ms. Sai Sruthi Shree presented a paper entitled "Glycemic and Insulinemic Responses of Indian Traditional Millet Recipes: An Analytical Literature Review and Secondary Data Analysis" in the "FOODS 2023 - International Conference on Resurgence of Millets for Food Security and Sustainability" organized by MOP Vaishnav College for Women, Chennai (December 14-15, 2023).
- Ms. Mounika Pandey, Ms. Manogna Pathri, Prof. N. Srividya, and Dr. Satyanarayana Labani presented their poster paper titled "Impact of Onion-Based Interventions on Biomarkers of Diabetes and Its Complications in Diabetic Rats - A Systematic Review" at the "IDF World Diabetes Virtual Congress 2023" organized by the International Diabetes Federation, Belgium (December 04-07, 2023).
- Ms. Sparsh Sumnirom Subba attended a training on "Development of Pour Over Millet Beverage and Curd Through Probiotic Bacteria" at CSIR - Central Food Technological Research Institute, Mysore (November 20-24, 2023).
- Ms. Beesetti Lohita attended a hands-on training on "Hi-tech Analytical Instrumentation for Agricultural and Food Quality Analysis" organized by NIFTEM-T - National Institute of Food Technology, Entrepreneurship, and Management-Thanjavur, Food Testing Laboratory (October 30 - November 03, 2023).
- Ms. Beesetti Lohita attended a one-day online training program on "Ozone Technology in Food Processing & Preservation" (October 11, 2023).
- Ms. Mounika Pandey attended the "The Role of Nuclear Techniques to Tackle Nutritional Challenges in the 21st Century" webinar organized by the International Atomic Energy Agency (IAEA) (October 10-12, 2023).
- Ms. Sai Dharshini S participated in "Yuva Pratibha Culinary Talent Hunt," organized by MyGov in collaboration with IHM, Pusa (October 2023).
- Ms. Beesetti Lohita and Ms. Sai Dharshini S participated in the "Pau 'she' tik Cooking Competition" organized by the Confederation of Women Entrepreneurs of India (COWE) in Anantapur (September 16, 2023).

- Ms. Amrita Shaw attended a one-day online training program on "Quality Assurance & Quality Control in Food Industry" organized by Food Yaari Education & Media Pvt. Ltd. (September 10, 2023).
- Ms. Beesetti Lohita attended a three-day National Level Workshop on "Research Methodology: Techniques, Analysis and Presentation" organized by Scrollwell (July 17-19, 2023).
- Ms. Mounika Pandey attended the "Creating Systematic Reviews for Real World Evidence Using AI and NLP" webinar organized by the International Society for Medical Publication Professionals (ISMPP) (June 14, 2023).
- Ms. Mounika Pandey attended the "Renewing the Fight: A Call to Action for Diabetes and CKD" webinar organized by the International Diabetes Federation (IDF) (July 13, 2023).

### **Humanities & Social Sciences**

### **Economics**

 Sri Suresh Kumar Dahal and Dr. G Raghavender Raju participated and presented their research paper entitled "Nepal REER and Dutch Disease" in the "ADBI-Nepal Rastra Bank-APAEA Joint Workshop on Monetary Policy and Central Banking Issues in Asia and the Pacific" organized by the Asian Development Bank, Kathmandu, Nepal (March 29, 2024).



### Languages & Literature

#### English

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- Ms. B Sai Vaishnavi participated and presented her paper "Unveiling Narrativity Dissembled in Mahapatra's 'Summer' and 'Dawn at Puri': A Barthesian Analysis" at "The 15th Newcastle and Northumbria Postgraduate Conference in Language and Linguistics," organized by Northumbria University, London (Hybrid Mode) (April 11, 2024).
- Ms. B Sai Vaishnavi participated and presented her paper "Foregrounding Narrativity in Jayanta Mahapatra's 'Summer' and 'Dawn at Puri' Using Abbott Porter's Narrative Theory" at the National Seminar on "Poeming the World: Jayanta Mahapatra's Contribution to Indian English Poetry," organized by the University of Allahabad, Prayagraj (March 12-13, 2024).
- Ms. B Sai Vaishnavi participated in an International Faculty Development Programme titled "Research Writing, Proposal Writing, and Research Grants," organized by Andhra Loyola Institute of Engineering and Technology in collaboration with the Office of the Internationalisation, Mindanao State University-Sulu, Philippines, and Cape Comorin Trust (February 23-29, 2024).
- Ms. B Sai Vaishnavi participated and presented her paper "Bremondian Analysis of Narrative Sequences in Vikram Seth's The Golden Gate" at the "International Conference on English Literature and Linguistics," organized by the Society for Education, Trivandrum, India (February 18, 2024).
- Ms. Pratiksha Pradhan participated in a one-week Faculty Development Program titled "Reading and Researching the Literature of Crisis," organized by the Department of Humanities and Social Sciences, NIT Trichy, and the UNESCO Chair in Vulnerability Studies, University of Hyderabad (January 22-28, 2024).
- Ms. Pratiksha Pradhan participated and presented her paper "Rivers and Their Trysts with Humans in the Wasteocene: A Study of Selected Documentaries on Teesta and Mekong" at the "5th ASLE-ASEAN Ecocritical Conference on Posthuman Southeast Asia" organized by Mae Fah Luang University, Chiang Rai, Thailand (November 23-25, 2023).
- Ms. B Sai Harshitha participated and presented her paper "Interplay of Text and Paratext in Creating Sensory Experiences in Picturebooks: Studying Indian Childhood through Mala's Silver Anklets and My Mother's Sari" at the "International Conference on Children's Literature: Classics to Contemporary," organized by the Department of Modern Indian Languages, Aligarh Muslim University (November 04-05, 2023).

- Ms. Pratiksha Pradhan participated and presented her paper "The Ecological Turn in Popular Media: Representations of the More-than-Human in Recent Bollywood Cinema" at "The 2023 Northeast Popular Culture Association Annual Virtual Conference," organized by Northeast Popular & American Culture Association (October 12-14, 2023).
- Ms. Megha Santhosh participated in an International Faculty Development Programme titled "New Frontiers in Literary Research," organized by Kristu Jayanti College, Bengaluru (October 09-17, 2023).
- Ms. Megha Santosh and Ms. Lekshmi Chandra participated in a five-day National Level Virtual Faculty Development Programme titled "Recent Trends in Literary Research," organized by Holy Cross College (Autonomous), Tiruchirappalli (September 25-30, 2023).
- Ms. Pratiksha Pradhan participated and presented her paper "The Persistence of Memory: Ancestral Voices and a Community's Past in Alyen Leeachum Foning's Art" at the "International Memory Studies Conference on Memory, Ecology, and Sustainability," organized by the Centre for Memory Studies, IIT Madras (September 20-22, 2023).
- Ms. B Sai Vaishnavi completed an AICTE-approved FDP twelve-week "Advanced Course in Social Psychology," offered by IIT Roorkee on the Swayam Portal (July -October 2023).
- Ms. Megha Santosh completed an NPTEL online course in "Photojournalism," offered by Pondicherry University on the Swayam Portal (July - December 2023).
- Ms. Pratiksha Pradhan completed an AICTE-approved FDP course titled "Vulnerability Studies: An Introduction," offered by the University of Hyderabad on the Swayam Portal (July October 2023).
- Ms. Pratiksha Pradhan participated in a Faculty Development Program titled "Eco-Criticism and Environmental Literature: Engaging Students in Sustainable Thinking," organized by CHRIST (Deemed to be University), Delhi NCR (July 10 - 15, 2023).
- Ms. Lekshmi Chandra participated in the pre-conference webinars of the 17th International & 53rd Annual Conference of ELTAI titled "Literature Abstracts and Full Papers" (June 12-26, 2023).

### **Management & Commerce**

- Ms. Akanksha Aggarwal participated and presented her doctoral research work at the "16th Doctoral Conference" organized by the ICFAI School of Social Sciences, ICFAI Foundation for Higher Education, Hyderabad (May 9, 2024).
- Sri Naveen was awarded the best paper at the Doctoral Colloquium at XLRI, Jamshedpur (April 08-11, 2024).
- Sri Naveen attended the "IMRDC Doctoral Conference" hosted by IIM Bangalore (February 02-03, 2024).
- Sri Naveen presented a paper at the "Globalizing Indian Thought (GIT)" conference hosted by IIM Kozhikode (December 14-16, 2023)



# **Mathematics & Computer Sciences**

- Ms. Banita Katuwal attended "A Three-Day Online Workshop on Introduction to SCILAB/MATLAB and Using MATLAB with PYTHON" organized by the Department of Mathematics, CMR Institute of Technology, Bengaluru-560037 (April 23-25, 2024).
- Ms. Banita Katuwal attended the "4th One-Week International Workshop on Technical Writing Using LaTeX" organized online by the School of Electronics Engineering (SENSE) and technically co-sponsored by VIT-AP IEEE SB and MTT SBC, at VIT-AP University, Amaravati, India (March 30 - April 05, 2024).
- Sri D Bhanu Prakash delivered a lecture on "Infectious Disease Modelling" at the National Institute for Research in Tuberculosis, Bangalore (March 14-15, 2024).
- Ms. Banita Katuwal attended the NPTEL online certification course "Quantum Entanglement: Fundamentals, Measures and Applications" (February March 2024).

- Ms. Banita Katuwal participated in the "International Conference on Graph Theory and Its Applications," organized by the Department of Mathematics, Amrita Vishwa Vidyapeetham, Coimbatore (December 18-20, 2023).
- Sri D Bhanu Prakash participated in the "Winter School on Games in Evolutionary Dynamics" organized by the Department of Mathematics, Shiv Nadar Institute of Eminence, Delhi (December 18-23, 2023).
- Sri D Bhanu Prakash participated in a workshop on "Control Theory for Partial Differential Equations" organized by the Indian Institute of Science Education and Research, Thiruvananthapuram (December 04-16, 2023).
- Ms. Behara Roopa Sri participated and presented a research paper entitled "Comparative Study on Chemical Significance of Sombor Leap Indices, F-Leap Indices, and Few Novel Indices" organized by the Department of Mathematics, Christ University, Bengaluru (November 30 – December 02, 2023).
- Ms. Banita Katuwal attended a two-day online handson workshop on "Mastering Graph Theory Concepts with Python Programming," organized by Arjun College of Technology and Indian Mathematics Professors Association (October 13-14, 2023).
- Sri Ritwik Pandey participated in the "7th Summer School on AI" at IIT Hyderabad (August 01-31, 2023).
- Sri D Bhanu Prakash participated in the SERB Sponsored High-End Workshop (KARYASHALA) on "Bifurcations and Chaos: Computations and Applications" organized (offline mode) by the Department of Mathematics, Indian Institute of Technology Indore (July 03-09, 2023).
- Sri Ritwik Pandey presented a research paper titled "Supervised Models for Predicting Metastatic Progression in Renal Cancer: A Bayesian Optimisation Approach" in "The 8th CIJK Conference on Mathematical and Theoretical Biology," organized by the Department of Mathematics, Pusan National University, South Korea (June 27-July O1, 2023).
- Ms. Behara Roopa Sri participated and presented a research paper entitled "A Study on Molecular Descriptors of Graphene and Its Nanoribbon" at the "International Conference on Innovations and Developments in Mathematical Science and Technology," S K University, Anantapur (June 28-30, 2023).
- Sri D Bhanu Prakash presented a paper in online mode entitled "Stochastic Time-Optimal Control Studies for Additional Food Provided Prey-Predator System Involving Holling Type-IV Functional Response and Mutually Interfering Predators" in the "ICDECP23" conference at IIT Mandi (June 15-17, 2023).

• Ms. Behara Roopa Sri participated and presented a paper entitled "On Zagreb Connection Indices of a Novel Carbon Nanomaterial and Graphyne" at the "International Conference on Discrete Mathematics & Graph Theory Day" organized by the Department of Mathematics, Vidyavardhaka College of Engineering, Mysuru (June 08-10, 2023).

## **Physics**

- Sri Appikonda Upesh Kumar participated in an International Webinar (Virtual) on "Energy Traps in Atomic Nuclei" by Prof. P.M. Walker, University of Surrey, UK, organized by the Department of Physics, Akal University, Talwandi Sabo, Bathinda, Punjab (June 05, 2024).
- Ms. Priyanka Verma and Ms. Sushma Tripathi participated in the "Skill Development Program on Polymer Advances" held at CSIR NIIST Trivandrum (May 27-29, 2024).
- Sri Appikonda Upesh Kumar participated in the Virtual INUP - i2i, "12th User Awareness Workshop on Fabrication & Characterization Facility for Nanotechnology," held at IIT Delhi (February 22-23, 2024).
- Sri Jyotisankar Das completed two online courses "Introduction to Nuclear Security Culture" and "Radiation Safety Navigator in Radiation Safety Communication" offered by the International Atomic Energy Agency (IAEA) (February 09-10, 2024).
- Ms. Susshma N completed a 6-month online course on "Radioactive Source Security Management" conducted by the World Institute of Nuclear Security, Austria, with recognition as a "Certified Nuclear Security Specialized Professional" (February 2024).
- Sri Anuj Garg participated in the five-day "Workshop on Biomolecular Simulations and Drug Discovery," organized by the Center for Computational and Integrative Sciences (CCIS) at SRM University, Andhra Pradesh (January 29 -February 03, 2024).
- Sri Appikonda Upesh Kumar and Ms. Priyanka Verma participated and presented a poster in the "67th DAE Solid State Physics Symposium" organized by Bhabha Atomic Research Centre, Mumbai, sponsored by the Board of Research in Nuclear Sciences (BRNS), Department of Atomic Energy, Government of India (December 20-24, 2023).
- Sri Prajal Chettri participated and presented one of his works in the "XLVI OSI Symposium, International Conference on Optics, Photonics & Quantum Information (OPTIQ-2023)" organized by the International School of Photonics, Cochin University of Science and Technology, Kochi (December 11-13, 2023).

- Sri Jyotisankar Das and Ms. Susshma N participated and presented a poster at the "67th DAE Symposium on Nuclear Physics" (DAE-SNP-2023) conference organized by the Indian Institute of Technology Indore, Madhya Pradesh, India (December 09-13, 2023).
- Sri Prajal Chettri participated and presented one of his works in the "6th IEEE International Workshop on Recent Advances in Photonics" (WRAP-2023), organized by the Indian Institute of Information Technology Allahabad, India (December 07-09, 2023).
- Sri Jyotisankar Das participated in the "International Symposium on Nuclear Astrophysics" (ISNA-2023) event jointly organized by the Manipal Centre for Natural Sciences (MCNS), Manipal Academy of Higher Education (MAHE), India, and INFN-LNS, Italy, at Manipal Academy of Higher Education, Manipal, India (October 30-November 03, 2023).
- Ms. Priyanka Verma, Ms. Dasari Swarna, and Ms. Sushma Tripathi participated in the "NANOScientific Symposium Asia 2023" held at IISc Bangalore (November 03, 2023).
- Ms. Sushmita Chettri conducted research at Uppsala University, Sweden, as part of an ongoing collaboration between SSSIHL and Uppsala University, under joint funding from the Swedish Research Council through a Development Research grant (VR-SRL) (September 2023).

# **Student's Participation & Achievements**

### **Biosciences**

### **Industry Connect**

• M.Sc. Bioscience students, Prasanthi Nilayam, February 26-27, 2024. Organizations visited: Indian Immunologicals Limited, Hyderabad, Telangana.

### **Other Participation**

- Manikanta Koppolu, K. Sathya Sai Kiran, Sudam Bhoi, Sangeet Dhiman, Harsh Kumar, and K. N. Naresh, presented a poster "In Silico Evaluation of Antimicrobial Potential of Bioactive Peptides from Hemocyanin of Carcinoscorpius Rotundicauda", during the Outreach Symposium on Molecular Simulations: Advances & Applications held in IIT Bombay (June 02-03, 2023).
- Harsh Kumar, K. Sathya Sai Kiran, Sudam Bhoi, Sangeet Dhiman, Manikanta Koppolu, and K. N. Naresh, presented a poster "In Silico Screening of Natural Product Datasets to Identify Potential Inhibitors of Thymidylate Kinase of Monkeypox Virus", during the Outreach Symposium on Molecular Simulations: Advances & Applications held in IIT Bombay (June O2-O3, 2023).
- Sangeet Dhiman, K. Sathya Sai Kiran, Sudam Bhoi, Harsh Kumar, Manikanta Koppolu, and K. N. Naresh, presented a poster "Virtual Screening Studies to Identify Inhibitors for BACE1, a Therapeutic Target in Alzheimer's Disease" during the Outreach Symposium on Molecular Simulations: Advances & Applications held in IIT Bombay (June 02-03, 2023).

# Chemistry

### **Industry Connect**

- B.Sc. (Chemistry) students, Prasanthi Nilayam, April O2, 2024. Organization visited: Sri Sathya Sai Institute of Higher Medical Sciences, Whitefield, Bengaluru, Karnataka.
- B.Sc. (Chemistry) students, Prasanthi Nilayam, March 27, 2024. Organization visited: Battery Lab at Visveswaraya Institute of Advanced Technology, Chikkaballapur, Karnataka.
- B.Sc. (Chemistry) students, Prasanthi Nilayam, March 25, 2024. Organization visited: Aurigene Pharmaceutical Services, Bengaluru, Karnataka.
- M.Sc. (Chemistry) students, Prasanthi Nilayam, August 17-18, 2023. Organization visited: Vidya Herbs, Bengaluru, Karnataka.
- M.Sc. (Chemistry) students, Prasanthi Nilayam, August 17-18, 2023. Organization visited: Indian Institute of Science, Bengaluru, Karnataka.

### Internship

• B. Mahipal and Galam Pavan Sai, M.Sc. Chemistry, completed a Process Chemistry internship organized by the Centre for Advancement of Research, Dr. Reddy's









Institute of Life Sciences, University of Hyderabad Campus, Gachibowli, Hyderabad (June 01-26, 2024).

- CH Krishna and Reddi Jagadeesh, M.Sc. Chemistry, completed an Analytical Chemistry internship organized by the Centre for Advancement of Research, Dr. Reddy's Institute of Life Sciences, University of Hyderabad Campus, Gachibowli, Hyderabad (June 01-26, 2024).
- Achyut, B.S., M.Sc. Chemistry, completed the Summer Internship Training Program in Chemistry (SITPIC-2024) organized by The Academy of Sciences, Chennai, in association with the Department of Chemistry, Anna University, Chennai, and Department of Physical Chemistry, Madurai Kamaraj University, Madurai (June 01-26, 2024).
- Norsang Tamang, M.Sc. Chemistry, completed an Organic Chemistry internship at NIPER, Hyderabad (June 01-30, 2024).
- Akash Sai SM, M.Sc. Chemistry, completed a Material Chemistry internship at the Department of Materials Engineering, Indian Institute of Science, Bangalore (May -June 2024).
- Guntreddi Yaswanth and Mohana Krishna, M.Sc. Chemistry, completed their summer internship training at Dr. Reddy's Institute of Life Sciences (DRILS), Hyderabad (June 01-26, 2023).
- Dattatreya Parija, M.Sc. Chemistry, completed his summer internship under the supervision of Vamsi Voora, Reader, Dept. of Chemical Sciences, Tata Institute of Fundamental Research, Mumbai (June 01-26, 2023).
- Saiswaroop R Iyer, M.Sc. Chemistry, completed his summer internship under the guidance of Mukesh Doble, Director, Theevanam Additives & Nutraceuts Pvt. Ltd., IITM Bioincubator, Department of Biotechnology, IIT Madras, Chennai, on the project entitled "Learning of microbial culturing techniques" (May 25 - June 26, 2023).

#### **Awards & Recognitions**

• Tejaswini K, B.Sc. Chemistry was selected for International Priority Gratitude Programs for the 2024 MEXT scholarship under the "Entrepreneurship-based-based Global Energy-Environment-Health Innovation Program' to Japan Advanced Institute of Science and Technology (JAIST), Japan (2024).

#### **Other Participation**

 Uppada Manikanta, M.Sc. Chemistry participated and delivered an oral presentation at the Third International Scientific Conference on Environmental Research: Issues, Challenges, and Strategies for Sustainable Development and Livelihood Security held at Karwar, Karnataka, India (December 01-02, 2023).

### **Food & Nutritional Sciences**

#### **Industry Connect**

- III B.Sc. and I M.Sc. Food & Nutritional Sciences students, Anantapur Campus, March 14, 2024. Organization visited: Shreeja Dairy, Anantapur, Andhra Pradesh.
- III B.Sc. and I M.Sc. Food & Nutritional Sciences students, Anantapur Campus, March 14, 2024. Organization visited: Sashi Industry (Vasavi Foods), Anantapur, Andhra Pradesh.
- III B.Sc. and I M.Sc. Food & Nutritional Sciences students, Anantapur Campus, March 14, 2024. Organization visited: Maatha Food, Anantapur, Andhra Pradesh.

#### **Awards & Recognitions**

- P. Veera Vijaya Lakshmi, III B.Sc. FNS, Yuvanita M G & Saranya M, I B.S. FNS (Hons.), P. Srinidhi & Sejal Annaldas, III B.Sc. FNS secured 1st, 2nd, and 3rd prizes in the Logo Competition event held as a part of the National Symposium "A Holistic Approach to Sustainable Food Systems: Integrating Agriculture, Nutrition and Food Safety," organized by the Department of Food and Nutritional Sciences, Sri Sathya Sai Institute of Higher Learning, Anantapur (March 01-02, 2024).
- K. Rishita, Srinidhi P, Asha Rani, PV Vijayalakshmi, Nukala Jahanavi, III B.Sc. FNS, B.R. Shreya & M. Vani Priya, K. Lavanya, I M.Sc. FNS, Sri Lalitha, B. Vibhuti, N. Vasanta, Sejal, Adri Menon, Namrutha, Khusboo, Shahina, III B.Sc. FNS secured 1st, 2nd, and 3rd prizes in the Ideathon competition event held as a part of the



National Symposium "A Holistic Approach to Sustainable Food Systems: Integrating Agriculture, Nutrition and Food Safety," organized by the Department of Food and Nutritional Sciences, Sri Sathya Sai Institute of Higher Learning, Anantapur (March 01-02, 2024).

- Ganadala Srinidhi, II M.Sc. FNS received the Best Poster Award at the 2nd International Conference on Clinical Nutrition and Dietary Lifestyle organized by the Universal Society of Food and Nutrition (February 22-23, 2024).
- Gajula Harmitha, II M.Sc. FNS, received 3rd prize and a certificate of achievement for presenting a part of her dissertation work done under Dr. M. Srijaya titled "Little Millet (Nutricereal): A Nutrient-Rich Powerhouse for Health and Wellness Exploring the Potential of Little Millet Milk as a Suitable Alternative in Different Food Products A Review" in the form of a poster in the National Conference Millet Confluence 2023 An Extravaganza of Ideas and Innovations conducted by Padmashree Institute of Management and Sciences in collaboration with KSCST, Bangalore (December 14-16, 2023).
- B. Sai Latha, I B.Sc. FNS received 3rd prize and a certificate of achievement for an oral presentation on the theme "Water is Food & Water is Life: Leave No One Behind" on the occasion of World Food Day 2023 and 9th IFCoN 2023 Curtain Raiser Program held at Vivekananda Auditorium, CSIR, Indian Institute of Chemical Technology, Tarnaka, Hyderabad (October 16, 2023).

16th October, 2023 Vivekananda Auditorium CSIB-Indian Institute of Chemical Technology, Tarnaka, Hyderabad

CoN 2023 Curtain Raiser



#### **Other Participation**

 Tharani Lakshmi Tharuni (II-M.Sc.), gave an oral presentation titled "Mislabeling in Indian Health Food Market: Consumer Survey and Market Survey," co-authored by Ms. Shreya P Sarathy and Dr. Jhinuk Gupta, at the 3rd International Scientific Conference on Environmental Research: Issues, Challenges, and Strategies for Sustainable Development and Livelihood Security, organized by Eurasian Academy of Environmental Sciences Association for Agricultural Technology in Southeast Asia, Hybrid Mode (December 01-02, 2023).

### **Humanities & Social Sciences**

#### **Economics**

#### **Industry Connect:**

- I M.A. Economics students, Prasanthi Nilayam, February 28
   March 01, 2024. Organization visited: Tamil Nadu National Agricultural University (TNAU), Coimbatore, Tamil Nadu.
- I M.A. Economics students, DHSS, Prasanthi Nilayam, February 28 - March 01, 2024. Organization visited: Elgi Ultra, Coimbatore, Tamil Nadu.
- I M.A. Economics students, DHSS, Prasanthi Nilayam, February 28 - March 01, 2024. Organization visited: ABT Dairy, Sakthi Group, Coimbatore, Tamil Nadu.
- I M.A. Economics students, DHSS, Prasanthi Nilayam, February 28 - March 01, 2024. Organization visited: Sakthi Soya, Sakthi Group, Coimbatore, Tamil Nadu.
- I M.A. Economics students, DHSS, Prasanthi Nilayam, February 28 - March 01, 2024. Organization visited: TTK Prestige, Coimbatore, Tamil Nadu.
- I M.A. Economics students, DHSS, Prasanthi Nilayam, February 28 - March O1, 2024. Organization visited: CODISSIA, Coimbatore, Tamil Nadu.





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- I M.A. Economics students, Prasanthi Nilayam, September 12-15, 2023. Organization visited: Caterpillar Inc., Chennai, Tamil Nadu.
- I M.A. Economics students, Prasanthi Nilayam, September 12-15, 2023. Organization visited: Schwing Stetter, Chennai, Tamil Nadu.
- I M.A. Economics students, Prasanthi Nilayam, September 12-15, 2023. Organization visited: Ashok Leyland, Chennai, Tamil Nadu.

#### Internship

- P Sai Kumar, Sathwik Nayak, Arun Kumar Mondi, Sanjay Sunil, Sai Gopal, Aniruddh Bhandari, and Gyalchen Tamang, I M.A. Economics, completed their summer internship training at Sanathana Analytics, Bellampally, (May 22 - June 26, 2024).
- Asangananda Reddy, I M.A. Economics, completed their summer internship training at Atypical Advantage, Nellore, (May 10 - July 15, 2024).
- Amarjith P K, I M.A. Economics, completed their summer internship training at Janagraha, Bengaluru, (May 28 - June 28, 2024).
- Sai Swaroop, I M.A. Economics, completed their summer internship training at Mitraz Foundation, Puttaparthi, (May 22 - June 26, 2024).

#### **Political Science**

#### **Other Participation**

- Anika Hingne, III B.A., presented a paper at the International Conference on Law and Social Justice organized by Alliance University, Bangalore, Karnataka (September 09, 2023).
- Anika Hingne's paper titled "Social Justice for Women in Rural India: Case Studies on the Role of Social Awareness and Familial Ties to Overcome Societal Bias" was published in the Lex Et Mutatio, Vol 3, (September 2023).

### Languages & Literature

#### English

#### **Awards & Recognitions**

- S. Sathya Priya Dharshini from I M.A. in English Language and Literature won the "Best Paper Award" at the Two-Day International Conference on "Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective," organized by the Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai (March 28-29, 2024).
- Meghana Srinivas Mandalapu from II M.A. in English Language and Literature won the "Best Paper Presentation" Award at the Two-Day International Conference on "Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective," organized by the Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai (March 28-29, 2024).







#### **Other Participation**

- Saipriya Babu, I M.A. English Language and Literature, participated and presented her research paper titled "A Jungian Reflection on the Tapestry of Panchaali's Life in Divakaruni's The Palace of Illusions" at the Two-Day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective organised by Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai, (March 28-29, 2024).
- Pem Doma Sherpa, II M.A. English Language and Literature, participated and presented her research paper titled Econostalgia, Memory and Affect in the Poetry of Mamang Dai at the Two-Day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective organised by Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai, (March 28-29, 2024).
- Sai Vilakshana Thapa, III B.A., participated and presented her research paper titled "The Role of Home Language in Immigrant Households: A Study Based on "The Paper Menagerie' and 'Mother Tongue'" at the Two-Day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective organised by Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai, (March 28-29, 2024).
- Sathyapriya Dharshini S., I M.A. English Language and Literature, participated and presented her research paper titled "AI-Mediated Composition Writing in an ESL Classroom" at the Two-Day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective organised by Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai, (March 28-29, 2024).
- Sattyasri Gururaghavendran, II M.A. English Language and Literature, participated and presented her research paper titled "Use of Digital Tools in Teaching English: Impact on Learners across Socio-economic, Multilingual, and Cognitive Levels in Schools" at the Two-Day International Conference on Embracing the Forte of SDGs in English

Language and Literature: A Cognitive Perspective organised by Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai, (March 28-29, 2024).

- V. Prashanti, I M.A. English Language and Literature, participated and presented her research paper titled "Analysing Speech in Jane Austen's Pride and Prejudice Based on Gender" at the Two-Day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective organised by the Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai (March 28-29, 2024).
- Dikshya Chettri, I M.A. English Language and Literature, participated and presented her research paper titled "A Feminist Reading of Volga's The Liberation of Sita" at the Two-Day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective organised by the Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai (March 28-29, 2024).
- Meghana Srinivas Mandalappu, II M.A. English Language and Literature, participated and presented her research paper titled "Navigating the Mental Spaces and Emotional Labyrinths in the Selected Songs from Taylor Swift's Folklore" at the Two-Day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective organised by the Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai (March 28-29, 2024).
- Ardra K. B., III B.A., participated and presented her research paper titled "Cognitive Growth with Sudha Murty: Employing Piaget's Theory of Cognitive Development to Unravel Cognitive Cues in Sudha Murty's Selected Short Stories" at the Two-Day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective organised by the Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai (March 28-29, 2024).
- Kavyashree Shrestha, III B.A., participated and presented her research paper titled "The Girl in the Golden Armour: A Critique of 'Subversion of Power' in Namina Forna's The Gilded Ones" at the Two-Day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective organised by the Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai (March 28-29, 2024).
- Yadha Lama, II M.A. English Language, and Literature participated and presented her research paper titled ""I Seek a Place That Can Never Be Destroyed": Decoding the Unknown Through Didactic Literature" at the Two-Day International Conference on Embracing the Forte

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of SDGs in English Language and Literature: A Cognitive Perspective organised by the Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai (March 28-29, 2024).

- Sanya Ahuja, I M.A. English Language and Literature, participated and presented her research paper titled "The Changing Patterns in the Representation of Women in Pakistani New Media" at the Two-Day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective organised by the Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai (March 28-29, 2024).
- G. V. D. Harshaprada, I M.A. English Language and Literature, participated and presented her research paper titled "Foreign Body: A Modernist Exploration of Globalization, Media and Medical Ethics" at the Two-Day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective organised by the Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai (March 28-29, 2024).
- V. Sri Harshita, III B.A., participated and presented her research paper titled "Disappearing Rivers - An Eco-Centric Study of Kavita Kané's Sarasvati's Gift" at the Two-Day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective organised by the Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai (March 28-29, 2024).
- Jagriti Sharma, III B.A., participated and presented her research paper titled "Innovation in Interviewing: The Case of Celebrity Interviews" at the Two-Day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective organised by the Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai (March 28-29, 2024).
- Kashish Moktan, III B.A., participated and presented her research paper titled "Childhood Trauma and Nostalgia: A Thematic Exploration of Sufjan Stevens' Selected Songs" at the Two-Day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective organised by the Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai (March 28-29, 2024).
- Jagriti Sharma, III B.A., participated and presented her research paper titled "Gaadi Bula Rahi Hai: Trains as a Site for Peripetia in Bollywood" at the Melange 2024: Safarnama-Narrativizing Railways as a Cultural Text organised by Christ University, Bengaluru (March 18, 2024).

- Meghana Mandalappu, II M.A. English Language and Literature, participated and presented her research paper titled "Tracking Tales: A Worldling Journey Through Theroux's "The Great Railway Bazaar' and 'Ghost Train to the Eastern Star' on the Indian Terrain" at the Melange 2024: Safarnama-Narrativizing Railways as a Cultural Text organised by Christ University, Bengaluru (March 18, 2024).
- Yadha Lama, II M.A. English Language and Literature, participated and presented her research paper titled "Developing an Integrated Vocabulary Teaching Toolkit for Enhancing the LSRW Skills among Gen Z Learners" at the Two-Day International Conference on Language and Literature titled "Imprints, Initiatives, and Insights: Redefining Gen Z English Language Competencies and Literary Perspectives organised by St. Joseph's College & Holy Cross College, Tiruchirapalli in collaboration with ELTAI Trichy Chapter. (February 27-28 2024).
- Pem Doma Sherpa, II M.A. English Language and Literature, participated and presented her research paper titled "Muna-Madan and Romeo and Juliet: A Case Study of Cultural Translations" at the International Conference on Translation and Multiculturalism organised by the Department of English, V.S.S.D. College, Kanpur, and ELTAI, (Hybrid Mode) (February 20-22, 2024).
- Sai Priyadarshini S, II M.A. English Language and Literature, participated and presented her research paper titled "Translation of Metaphors, the Language of Movies: Images and Affect in Kannathil Muthamittal" at the International Conference on Translation and Multiculturalism organised by Department of English, V.S.S.D. College, Kanpur, and ELTAI, (Hybrid Mode) (February 20-22, 2024).
- Sattyasri Gururaghavendran, II M.A. English Language and Literature, participated and presented her research paper titled "Sita Devi to Lady Sita: A Tradition in Translation/ Transition" at the International Conference on Translation and Multiculturalism organised by the Department of English, V.S.S.D. College, Kanpur and ELTAI, (Hybrid Mode) (February 20-22, 2024).
- Meghana Srinivas Mandalappu, II M.A. English Language and Literature, participated and presented her research paper titled "From Text to Tee: Navigating the Intertextual, Intersemiotic, and Intermedial Course from the Bhagavad Gita to The Legend of Bagger Vance" at the International Conference on Translation and Multiculturalism organised by Department of English, V.S.S.D. College, Kanpur, and ELTAI, (Hybrid Mode) (February 20-22, 2024).
- Yadha Lama, II M.A. English Language and Literature, participated and presented her research paper titled "Gained and Lost in Translation: A Case Study of Tamang Selos in Nepal" at the International Conference on Translation and Multiculturalism organised by the Department of English, V.S.S.D. College, Kanpur, and ELTAI, (Hybrid Mode) (February 20-22, 2024).

#### **Field Visit**

- Meghana Srinivas, II M.A. in English Language and Literature, visited RDT High School for Hearing Impaired, Bukkarayasamudram, Anantapur, and interacted with 225 children from classes 6 to 10 to understand how sign language is taught and learned as a part of her Master's Dissertation (March 2024).
- Pratiksha Pradhan, Research Scholar, DLL-English, conducted fieldwork and collected first-hand narratives from the witnesses of the Teesta River Flood of 1968 (popularly known as Arsat ko bhal pairo) from the people residing along the Teesta River Basin to support her ongoing research (October-November 2023).





### **Management & Commerce**

#### **Industry Connect**

- III B.Com. students, Anantapur, March 11, 2024. Organization visited: Coca-Cola, Bangalore, Karnataka.
- III B.Com. students, Anantapur, March 11, 2024. Organization visited: Britannia, Bangalore, Karnataka.
- III B.Com. students, Brindavan, March 3, 2024, Organisation visited: Saranksh Community Streeties India, Devanahalli, Bengaluru, Karnataka.
- I M.B.A. students, Anantapur, March 1, 2024. Organizations visited: TTK Prestige Ltd, Coimbatore, Tamil Nadu.
- I M.B.A. students, Anantapur, February 29, 2024. Organizations visited: Shakti Milk Products, Coimbatore, Tamil Nadu.
- I M.B.A. students, Anantapur, February 29, 2024. Organizations visited: Shakthi Soya Plant, Coimbatore, Tamil Nadu.
- I M.B.A. students, Anantapur, February 28, 2024. Organizations visited: Tamil Nadu Agriculture University, Coimbatore, Tamil Nadu.
- I M.B.A. students, Anantapur, February 28, 2024. Organizations visited: Elgi Ultra, Coimbatore, Tamil Nadu.
- III B.Com. students, Brindavan, February 9, 2024, Organisation visited: Tractors and Farm Equipment Ltd., Doddaballapuram, Karnataka.
- III B.Com. students, Brindavan, December 16, 2023, Organisation visited: Flipkart Fulfilment and Sorting Center, Venkatapura, Bengaluru, Karnataka.
- II M.B.A students, Prasanthi Nilayam, September 14, 2023, Organization Visited: Ashok Leyland Limited, Ennore.
- II M.B.A students, Prasanthi Nilayam, September 13, 2023, Organization Visited: Schwing Stetter (India) Pvt. Ltd., Sriperumbudur.
- II M.B.A students, Prasanthi Nilayam, September 12, 2023, Organization Visited: Caterpillar, Tiruvallur, Chennai.
- III B.Com. students, Anantapur, September 08, 2023. Organization visited: Honda Motorcycle & Scooter India Pvt. Ltd. (HMSI), Narasapura, Karnataka.
- II M.B.A. students, Anantapur, August 14, 2023. Organization visited: Kone Elevators, Chennai, Tamil Nadu.
- II M.B.A. students, Anantapur, August 12, 2023. Organization visited: Raam's Fittings, Chennai, Tamil Nadu.
- II M.B.A. students, Anantapur, August 11, 2023. Organization visited: Hunter Douglas, Chennai, Tamil Nadu.
- II M.B.A. students, Anantapur, August 10, 2023. Organization visited: Sundaram Finance, Chennai, Tamil Nadu.













#### Internship

• G.A. Sai Jyothika, II M.B.A., Anantapur, December 25, 2023. Completed summer internship at Eshwars House of Corporate Law under the Patents Team.

#### **Awards & Recognitions**

• Team SAI, represented by Kota Apoorva Havisha and Himika Piduri, students of M.B.A, won the First Prize for their idea "Hand to Help - Promoting Individual Social Responsibility" at the Innovation, Design Thinking, and Entrepreneurship (IDE) Bootcamp organized by The Ministry of Education's Innovation Cell (MIC) and AICTE at IIT Bhubaneswar (June 26, 2023).

#### **Other Participation**

- Anandita, I B.Com. (H), Anantapur completed the Swayam Course titled "BSL-001: Basic in Spanish Language and Culture-I" offered by IGNOU, New Delhi (May 27, 2024).
- Varanasi Dharani, I B.Com. (H), Anantapur, completed the Swayam Course titled "Banking and Insurance" offered by IIS (Deemed to be University), Jaipur (May 26, 2024).
- Gadale Akanksha, A N S L Prasanna, Krishnapuram Sai Pragna, D Sai Lalitha Mani, Sai Smitha, R B Yashaswinii, Risha Mondal, III B.Com. (H), Anantapur, completed the Swayam Course titled "Digital Marketing" offered by IIM Bangalore (May 26, 2024).
- G.A. Sai Jyothika, II M.B.A., Anantapur, completed the Simplilearn course titled "Digital Marketing Tools and Techniques" (May 22, 2024).
- G Saisree, II M.B.A., Anantapur, attended a workshop titled "Chat GPT and AI Hacks in MS Office" conducted by Skill Nation and obtained a certificate for the same (May 16, 2024).
- G.A. Sai Jyothika, II M.B.A., Anantapur, completed the Coursera course titled "Neuromarketing" (May 13, 2024).

- Vibhooti Badera, III B.Com. (H), Anantapur, completed the Swayam Course titled "Banking and Financial Markets: A Risk Management Perspective" offered by IIM Bangalore (May 18, 2024).
- Sai Pratyusha R, Varshini Sree, I B.Com. (H), Anantapur completed the Swayam Course titled "Group Dynamics" offered by IIT Roorkee (April 2024).
- Akshara, I B.Com. (H), Anantapur participated in the Indian Student Parliament organized by MIT- School of Government (April 2024).
- Kota Apoorva Havisha, II M.B.A., Anantapur, presented a paper titled "Conceptualizing a Multi-Sided Platform to Bridge Gaps in Non-Profit Sector Using Design Thinking (PAPER ID: 2555)" at the 1st International Conference on "Digital Transformation & Sustainability of Business (ICDTSB-2024)" organized by the Department of Management Studies, Vardhaman College of Engineering, Hyderabad (March 29-30, 2024).
- Kota Apoorva Havisha, II M.B.A., Anantapur, presented a paper titled "Building Trust from Within: How Authentic Leadership Empowers Effective Internal Marketing in the Digital Age (PAPER ID: 2590)" at the 1st International Conference on "Digital Transformation & Sustainability of Business (ICDTSB-2024)" organized by the Department of Management Studies, Vardhaman College of Engineering, Hyderabad (March 29-30, 2024).
- Jaya Dhuliupala, Jyithirmayee Aramani, Harika Peddinti, Maitree J. Pathak, Gunda Navya Sai, Anugraha Radhakrishnan, I M.B.A. Students, Anantapur Campus, presented their papers at an event organized by Shri Krishnadevaraya University under ICSSR (March 28, 2024).
- Praharshitha, II M.B.A., Anantapur, presented the paper titled "Antecedents of Green Consumer Behavior Towards Green Cosmetics" during the 3rd International Marketing Conference at IIM, Shillong (January 31, 2024).
- Himika Piduri, II M.B.A., Anantapur, presented a paper titled "Will ChatGPT Change the World? Demystifying the User Intentions Through Antecedents" at IIM Shillong (January 31, 2024).
- Sai Poojitha, II M.B.A., Anantapur, presented the paper titled "Return Intention Behavior of Consumers on Electronic Gadgets" during the 3rd International Marketing Conference at IIM, Shillong (January 31, 2024).
- G.A. Sai Jyothika (22505), II M.B.A., Anantapur, presented a paper on "Adoption Behaviour of Electric Vehicles" during the 3rd International Marketing Conference at IIM, Shillong (January 30, 2024).
- Muskan Pradhan, II M.B.A., Anantapur, presented a paper titled "Unveiling Motivations: Insights into Sustainable Lifestyle Adoption and Perspectives" at IIM Shillong (January 30-31, 2024).

- Kavya B, II M.B.A., Anantapur, completed the Coursera certification course titled "Personal and Family Financial Planning" (January 18, 2024).
- Kota Apoorva Havisha, II M.B.A., Anantapur, participated in the IIC Regional Meet held at the Institute of Aeronautical Engineering, Hyderabad (December 12, 2023).
- Nandita Biswas, II M.B.A., Anantapur, participated in the 4th International Conference on "The Role of Innovation, Entrepreneurship and Management (ICRIEMSD-2023)" organized by O.P. Jindal University (November 04, 2023).
- C. Disha, Harini, Maitree J. Pathak, I M.B.A. Students, Anantapur Campus, participated in the International Case Study Competition organized by The Northcap University and qualified to present their case in the final round (August 24, 2023).
- Himika Piduri, II M.B.A., Anantapur, participated in the Design Thinking IDE Bootcamp at IIT Bhubaneswar (June 26, 2023).
- Kota Apoorva Havisha, II M.B.A., Anantapur, submitted a Technical Readiness Level -5 idea and won at the IDE Bootcamp - 2023 conducted by the Government of India, and selected to participate at IIT Bhubaneswar (June 22-26, 2023).
- Muskan Pradhan, II M.B.A., Anantapur, completed the Simplilearn course titled "Business Analytics with Excel" (June 02, 2023).
- Muskan Pradhan, II M.B.A., Anantapur, completed the Google Garage course titled "The Fundamentals of Digital Marketing" by Google and IAB (June 01, 2023).
- Muskan Pradhan, II M.B.A., Anantapur, completed the Coursera course titled "Data Visualization with Advanced Excel" by PWC (May 29, 2023).
- Kavya B, II M.B.A., Anantapur, completed Great Learning courses on Advanced Excel and Power BI (2023).

### **Field Visit:**

 I M.B.A Students Anantapur Campus, accompanied by Dr. N Jayaprada, visited the Rural Development and Self-Employment Training Institution (RUDSETI) and the Atal Incubation Centre, Sri Krishnadevaraya University (AIC-SKU) in Anantapur, to provide students with firsthand experience of rural development initiatives and entrepreneurship support systems. (February 14, 2024).

### **Mathematics & Computer Sciences**

#### Internship

- Sai Lakshmi Sai Prasad, I B.S. (Maths), completed the "CEC Practical Approach" conducted by the Department of Information Technology under the Continuing Education Cell, National Institute of Technology, Raipur, Chhattisgarh, India (June 12-26, 2024).
- Bishnu Priya Sahoo, II B.Sc. (MPC), completed the Artificial Intelligence internship at Internship Studio (May 28 - July 2, 2024).
- Naga Sai Sathvika Kodukula, II B.Sc. (MPC), completed internship training at the International Livestock Research Institute on the basics of statistical data science and mathematical modeling in agriculture and animal agriculture research (May 10 June 30, 2024).
- V Sai Abhinai and C Varun Sai, completed a summer internship program conducted by the Centre for Excellence in Mathematical Biology along with the Department of Mathematics and Computer Science, Sri Sathya Sai Institute of Higher Learning (May 5 - June 22, 2024).
- S J Mantra, Priyanka Pawar, Vidyasree S, Sweta Chettri, Sai Lakshmi Sai Prasad, M V Sai Krishna, I B.S. (Maths), completed a summer internship program conducted by the Centre for Excellence in Mathematical Biology along with the Department of Mathematics and Computer Science, Sri Sathya Sai Institute of Higher Learning (May 5 - June 22, 2024).
- Biwechana Pradhan, III B.Sc. (Physics), completed a summer internship program conducted by the Centre for Excellence in Mathematical Biology along with the Department of Mathematics and Computer Science, Sri Sathya Sai Institute of Higher Learning (May 5 - June 22, 2024).
- K Lalith Aditya, II M.Sc., completed an internship at Tech Actuarial on the project titled "Crop Price Prediction" (February 20 – June 30, 2023).

- Aniruddha Padmanaban and Pavan Pyla, II M.Sc. Data Science & Computing completed an internship at Tech Actuarial on the project titled "Fraud Detection in Health-Care Insurance" (February 20 – June 30, 2023).
- A Sai Kumar Reddy and Varanasi Sai Kumar, II M.Sc. Data Science & Computing completed an internship at Tech Actuarial on the project titled "Impact of Climate Change on Motor Claims" (February 20 – June 30, 2023).

#### **Other Participation**

- Anirudh Yandrapu, II M.Sc. Data Science and Computing completed the Amazon ML Summer Course (online) (September October 2023).
- Srinand Hegde and Sumanth Chebrolu of II M.Sc. Mathematics (Actuarial Science) completed the 8-week CAS Student Central Summer Program, an interactive professional and educational experience offered by the Casualty Actuarial Society. This includes completing all modules of the program including Property and Casualty Basics, Excel, Data Visualization, Ratemaking, Reserving, Predictive Modeling, Soft Skills, and a Property and Casualty Case Competition (2023).
- Arrnav Dutta, Shashi Kumar, Hursh Gupta, Saiprasanna G, Sathya Sai Sri Charan, K Damodar Reddy, KVSS Kasyap, and V Ram Sai Deep, of III B.Sc. Mathematics completed the 6-week CAS Student Central Independent Summer Program, a self-paced professional and educational experience offered by the Casualty Actuarial Society. This includes completing all modules of the program including Property and Casualty Basics, Excel, Data Visualization, Ratemaking, Reserving, Predictive Modeling, and Soft Skills (2023).
- SSSIHL's Rhythmic Energy Actuarial Band Group emerged as the winner of the 2023 Actuarial Performance League (APL) conducted by the Institute of Actuaries of India (IAI) during the Global Conference of Actuaries held in Delhi (2023).
- Satya Sai Sri Charan and Hursh Gupta from III B.Sc. Mathematics presented at the Casualty Actuarial Society (CAS) Webinar Preparing for Success: CAS Exam Study Tips for International Candidates (September 13, 2023).



# **Performing Arts**

### **Industry Connect**

• IV B.P.A. & II Diploma students, Mumbai, February 11-12, 2024. Organization visited: Institute of Actuaries, Mumbai, Maharashtra.

### **Other Participation**

• K Gautam, Shaikh Kaleem, Sai Pawan Kalyan, Kshitij Shrivastav, Mayank Trivedi & Krishna Kant Burman - IV B.P.A., Kalpataru Sahu - I B.P.A. and the faculty participated and performed in the music program titled "Sai Taala Gaanamrutam" at the Atal Incubation Centre, S.K. University, Anantapur (March 09, 2024).



### **Physics**

 The students of M. Sc. (Physics) and M. Tech. (Optoelectronics & Communications) visited Laser World of Photonics Exhibition, Bengaluru, (September 13-15, 2023).

### **Awards & Recognitions**

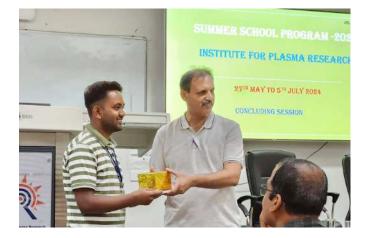
• Raj Kumar Thakur, I M.Sc. (Physics) received the Second-Best Poster Presenter Award for his project work on "Axial Plasma Diagnostics of Fireball Plasma Using Langmuir Probe" as part of the Summer School Programme of the Institute of Plasma Research (IPR), Gandhinagar, Gujarat (May 27, 2024).

### Internships

- Nagar Kartik, I M.Sc. (Physics), completed a summer internship project work on "Calculations related to Crossed Dipole Trap for Neutral Atoms" in QuMix Laboratory at Raman Research Institute, Bengaluru (May 2 - June 24, 2024).
- Darshan R, I M.Sc. (Physics), completed an online summer internship project on "The Information Paradox in Black Holes: A Theoretical Study" under the guidance of Vamshi Mohan Katukuri, Scientist, Fraunhofer Institute for Industrial Engineering IAO, Stuttgart, Germany (May 1-June 28, 2024).
- Amal Krishna, I M.Sc. (Physics), completed a summer internship under Reji Philip of Ultrafast & Nonlinear Optics

Group at Raman Research Institute, Bengaluru (May 7 - June 4, 2024).

- Rohit Pattar, I M.Sc. (Physics), completed a summer internship under Praveen C Ramamurthy of Organic Nano Electronics Group at IISc, Bengaluru (May 6 June 19, 2024).
- Binayak Dutta, I M.Sc. (Physics), completed an internship under Dr. N. Kamaraju of Ultrafast and Terahertz Spectroscopy Group at IISER Kolkata, on the topic "Ultrafast and Terahertz spectroscopy of Ferroelectric Materials", (May 20 - June 27, 2024).
- Biswas Pradhan, I M.Sc. (Physics), completed an online summer internship on "Gamow Window Analysis in Stellar Plasma" under the guidance of Prof. C. Rangachary, University of Saskatchewan, Saskatoon, Canada, (May 5 -June 22, 2024).
- Rohan Pattar, II M.Sc. (Physics), completed an internship under Ram Gopal in the Intense Laser Physics Group at TIFR, Hyderabad (May 15 - June 15, 2024).
- Ujjal Chettri, II M.Sc. (Physics), completed an internship under Chaitanya Suddapalli's group working on developing novel coherent laser sources at TIFR, Hyderabad (May 24 -July 7, 2024).
- Panchadarla Vasu, I M.Tech. (Optoelectronics & Communications), completed a summer internship under the guidance of Sai Kishore Bhyri, Senior Principal Optical Engineer, Infinera Corporation, on the topic "Testing a Proprietary Software Application", (May 6 June 31, 2024).
- Sahadev S, S. Vamsi Krishna, and Sanjay Prasad, I M.Tech. (Optoelectronics & Communications), completed a summer internship under the guidance of Sai Kishore Bhyri, Senior Principal Optical Engineer, Infinera Corporation, on the topic "Testing a Proprietary Software Application". (June 11 2024 onwards)
- Y. Niranjan Reddy, I M.Tech. (Optoelectronics & Communications), completed a summer internship under the guidance of Manish Chopra, Senior Manager, Ciena, on the topic "Creating Layer-O DWDM services and Layer-1 OTN services" (May 5 June 28, 2024).



# **National Examinations**

A significant percentage of SSSIHL final year students qualified in national exams such as GATE (Graduate Aptitude Test in Engineering) | CSIR (Council of Scientific & Industrial Research) | JRF (Junior Research Fellowship) | NET (National Eligibility Test) | LS (Lectureship) | CTET (Central Teacher Eligibility Test), IIT JAM, and more in 2023/24.

### OVERALL (2023/24)

# Students Qualified in National Exams - 2023/24

### GATE



- Ayyagari Sathya Sai Srikar (Data Science and Artificial Intelligence)
- Ayyagari Sathya Sai Srikar
- Panditi Bhagawan (Computer Science)
- Vishnu Sai (Bioscience)
- Sumanth Chebrolu (Data Science and Artificial Intelligence)
- Sridhar S (Bioscience)
- Gooty Bharadwaj (Data Science and Artificial Intelligence)
- M. Sai Kirti Krishnan (Bioscience)
- Akash Rao (Bioscience)

- Pashaula Eswar Sai (Computer Science)
- Pavan Pyla (Data Science and Artificial Intelligence)
- Sukesh (Bioscience)
- Abhaya Krishna (Physics)
- Bhargava Jogi R (Physics)
- Gooty Bharadwaj (Computer Science)
- Suravazula Sai Satish (Data Science and Artificial Intelligence)
- Sai Pranitha (Bioscience)
- Saideva Sathvik Ravula (Data Science and Artificial Intelligence)
- Hemasri (Bioscience)

- Sai Srivaishnavi Guntury (Physics)
- Norsang Tamang (Chemistry)
- Parth Anupamratanshanker Nagar (Data Science and Artificial Intelligence)
- Thandu Krishnasai (Data Science and Artificial Intelligence)
- Suravazula Sai Satish (Computer Science)
- Immidisetty Hemanth Sai Pavan (Data Science and Artificial Intelligence)
- Sai Mathura Krishnan (Data Science and Artificial Intelligence)
- Sairam Abbireddy (Bioscience)
- Abhinandan Senapati (Computer Science)
- Shandhini (Bioscience)
- Borra Ravi Teja (Computer Science)
- Akula Venkata Satya Sai Gopinadh (Data Science and Artificial Intelligence)
- Dishant Gurung (Computer Science)
- Bandari Rahul (Data Science and Artificial Intelligence)
- Tejanshu Sekhar Panda (Computer Science)
- Satyajit Behera (Computer Science)
- Rakesh Roshan Gouda (Computer Science)
- Nirajit Pandey (Computer Science)

### CTET

- Reshma T (Education)
- Athulya Krishna S (Education)

### **UGC-CSIR-NET (LS)**

- Sridhar S (Biosciences)
- Sukesh (Biosciences)
- Udvas Acharjee (Mathematics)

### **UGC-CSIR-NET (JRF)**

• Vishnu Sai (Biosciences)

# **UGC-NET (JRF)**

- Gooty Bharadwaj (Computer Science)
- Ayyagari Sathya Sai Sikar (Computer Science)
- Yamuna Sagubandi (Food & Nutritional Sciences)

### **UGC-NET (LS)**

- Ritwik Chandra Pandey (Computer Science)
- Prashant Tripathi (Chemistry)
- Neeraj Soni (Economics)
- B Sai Harshitha (English)

### IIT JAM

- Prapanj K T (Physics)
- Saiswaroop Natarajan (Physics)
- Sai Sanjay S (Physics)
- Sai Varshini A (Physics)

### **APSET**

• Beedupalli Usha (Mathematics)

### **ICAR-JRF**

Mounika Sura (Food & Nutritional Sciences)

### **ICMR-NIN**

• M. Sai Veena (Food & Nutritional Sciences)

# **International Examinations**

List of students from the Dept. of Mathematics & Computer Science who took the international exams for Actuaries held by The Casualty Actuarial Society (CAS) and Society of Actuaries (SOA) and qualified:

### SOA

#### **Probability**

- Sai Kartheek
- Manan Luthra
- Omkar
- K Damodar Reddy
- Pranavchandra Vivekananda
- Mohith Sai Kumar Dounth

#### **Financial Mathematics**

- Sai Kartheek
- Manan Luthra
- Swayam Kumar Patro
- KVSS Kasyap
- Sai Yashwanth Chintakayala
- Pranavchandra Vivekananda
- Mohith Sai Kumar Dounth

### Fundamentals of Actuarial Practice (FAP)

• Arunachala Sivateja M

### CAS

### Modern Actuarial Statistics 1 (MAS 1)

• Sai Kartheek

### Modern Actuarial Statistics 2 (MAS 2)

- Srinand Hegde
- Sumanth Chebrolu

# **UGC Fellowship**

• Ms. Pratiksha Pradhan, Dept. of English, and Ms. Susshma N., Dept of Physics, upgraded to "Savitribai Jyotirao Phule Single Girl Child Fellowship (SJSGC) Senior Research Fellow" following an upgrade interview with a 3-member assessment committee (April 1, 2024).





# **Central Research Instruments Facility (CRIF)**

SSSIHL Central Research Instruments Facility (CRIF), based at the Prasanthi Nilayam Campus, is one of the few such facilities in the country (and the first in a rural location) that houses advanced Characterization/Analytical tools to carry out Translational Research in various areas of Science and Technology such as Physical, Biological, Chemical, Materials Science, Food, Nutrition and also Computational and Interdisciplinary Areas.

The facility, built with a funding of Rs.45 Crores with the kind support of Sri Sathya Sai Central Trust, hosts a range of cutting-edge instruments and laboratories. It has significantly strengthened the research facilities at SSSIHL by providing state-of-the-art infrastructural facilities under a single roof.

This has allowed faculty, post-doctoral fellows, doctoral students, and postgraduate students at the Institute to accelerate their research work in all the major research areas of the Faculty of Sciences - Health, Energy, and Environment. It enables them to keep pace with the scientific developments taking place globally, and as a result, their research findings are being published in peer-reviewed high-impact journals. These concerted efforts to conduct research in cutting-edge areas of Science and Technology help contribute to the needs of society at large. Full-time technical assistants with specific expertise operate and maintain the instruments and laboratories.

SSSIHL CRIF facilitates the strengthening of interdisciplinary health-related research collaborations between SSSIHL and Sri Sathya Sai Institute of Higher Medical Sciences (SSSIHMS). Some of these include Regenerative Medicine & Tissue Engineering, Rapid Detection of Endemic Diseases, Diabetic Retinopathy, Development of Cost-Effective Multi-Modal Microscopes, SPCE-based Point of Care Devices, etc.

### **Core Facilities**

The following core facilities at CRIF are shared resources, offering a range of services to the research community at SSSIHL:

- Femto Fab Facility
- Electron Microscope Facility
- NMR & Mass Spectrometry Facilities
- Materials Characterization Facility
- Powder X-ray Diffractometer
- Vibrating Sample Magnetometer
- Thermal and Optical Characterization Facilities
- Liquid Nitrogen Facility
- Central Utilities Facility
- Optical Imaging and Integration

### Laboratories

In addition, CRIF hosts the following labs:

- Wet Chemistry Laboratories
- Functional Materials Laboratory
- Water Research and Electrochemistry
- Biosafety Laboratories: Level 1 and Level 2
- Functional Glasses and Ceramics Laboratory
- Nonlinear Optics Laboratory
- Computational Science and Plasmonics





## **Collaborators**

SSSIHL has successfully forged several research collaborations with leading organizations across India and abroad.

## Academia & Research

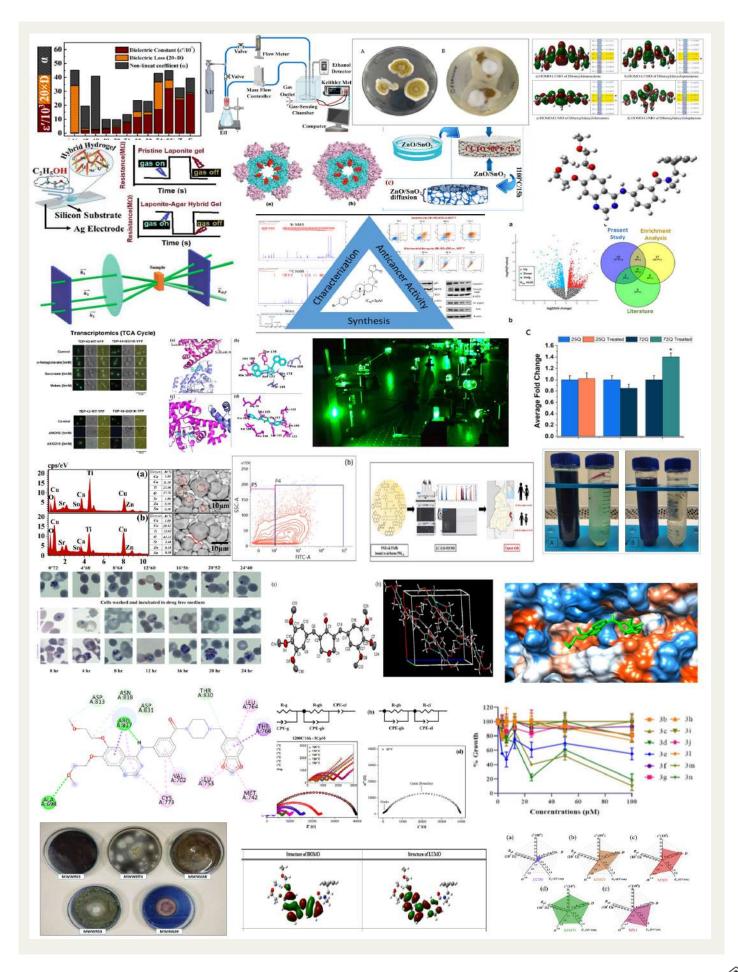
- AIIMS. New Delhi
- All-India Institute of Speech and Hearing (AIISH)
- Banaras Hindu University
- Baylor College of Medicine, USA
- BITS. Hvderabad
- Central Food Technological Research Institute, Mysore
- Central Leprosy Teaching and Research Institute, Chennai
- Centre for Incubation Innovation Research and . Consultancy, Bengaluru
- Centre for Materials for Electronics Technology, Pune .
- Clemson University, USA
- College of Science, King Saud University, Riyadh, Saudi . Arabia
- Crystal Technology Division, Bhabha Atomic Research . Centre, Mumbai
- CSIR-Central Drug Research Institute, Lucknow
- CSIR-Central ElectroChemical Research Institute, Karaikudi
- CSIR-Indian Institute of Chemical Technology, Hyderabad
- CSIR-National Chemical Laboratory, Pune
- Department of Physical Sciences, Amrita Vishwa • Vidyapeetham, Bengaluru
- Dr. Reddy's Institute of Life Sciences, Hyderabad
- Fakir Mohan University, Balasore, Odisha
- FDA-Center for Biologics Evaluation and Research, USA •
- Geological Survey of India, Hyderabad
- ICAR-Indian Institute of Horticultural Research, Bengaluru
- IISER, Berhampur
- Indian Institute of Science Education and Research, Mohali
- Indian Institute of Science, Bengaluru
- Indian Institute of Technology, Kharagpur •
- Indian Institute of Technology, Madras •
- Indira Gandhi Centre for Atomic Research, Kalpakkam •
- Industrial Research and Consultancy Centre, IIT-B, Mumbai .
- Institute for Photonics and Nanotechnologies, Italy International Centre for Genetic Engineering and
- Biotechnology, New Delhi Japan Advanced Institute of Science and Technology,
- Japan
- LV Prasad Institute, Hyderabad
- Macquarie University, Sydney, Australia
- Madras Diabetes Research Foundation, Chennai
- Malabar cancer center, Thalassery, Kerala
- Nanocatalysis and Solar Fuels Research Laboratory, Yogi Vemana University, Kadapa
- Nano-materials Lab, Birla Institute of Technology and Science, Pilani K K Birla Goa Campus, Goa, India
- National Animal Resource Facility for Biomedical Research, Hyderabad
- National Institute of Nutrition, Hyderabad
- National Institute of Pharmaceutical Education & Research, Hyderabad
- New Jersey Institute of Technology, USA

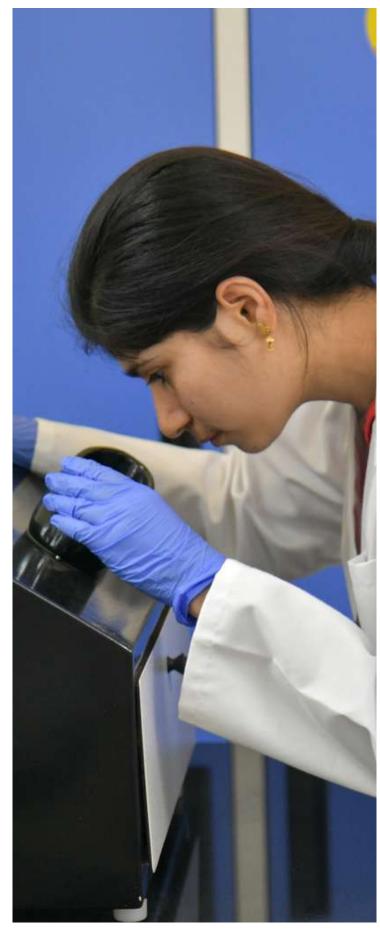
- Oak Ridge National Laboratory (ORNL), USA
- Raman Research Institute, Bengaluru
- Regional Centre for Biotechnology, Faridabad, Haryana
- Shodh-Chakra (INFLIBNET)
- SRM Institute of Science and Technology, Chennai
- Tata Institute for Fundamental Research, Mumbai
- The Institute of Bioinformatics and Applied Biotechnology, Bengaluru
- The Sahlgrenska University Hospital, Sweden
- Tuskegee University, USA
- Universidad del Norte, Colombia
- University of Agricultural Sciences, Bengaluru
- University of Colorado, USA
- University of Delhi
- University of Leeds, Leeds, UK.
- University of Maryland, USA
- University of Wollongong, Australia
- Uppsala University, Sweden

#### Industry

- Agilent Technologies India Pvt. Ltd.
- Biomoneta, Bengaluru
- CodeTantra Tech Solutions Pvt. Ltd.
- CRISPR BITS Pvt. Ltd., Bengaluru
- HCG Cancer Care, Bangalore
- IndrasPvt. Ltd., Hyderabad
- Insta Power Ltd., New Delhi
- Instapower
- Lab Engineers, Bengaluru
- Labby Inc., USA
- Metaloga Inc
- Mylan Laboratories, Bengaluru
- Omix Research & Diagnostics Laboratories Pvt. Ltd., Bengaluru
- SCIINV, Biosciences Pvt. Ltd., Hyderabad
- Symrise Pvt. Ltd., Chennai •
- Syngene International Ltd., Bengaluru
- Tech Actuarial •
- Tranalab Pvt. Ltd.
- Twastrix, Pune
- Xheme Inc, USA









Prof. B. Raghavendra Prasad, Vice-Chancellor of SSSIHL along with Prof. S. K. Mehta, Vice-Chancellor, University of Ladakh



Prof. S. K. Mehta, Vice-Chancellor, University of Ladakh and his team at CRIF, with the SSSIHL team



Prof. S. K. Mehta, Vice-Chancellor, University of Ladakh and his team at CRIF, interacting with experts from SSSIHL



Prof. Reji Philip and Dr. Saptarishi Chaudhuri from RRI interacting with SSSIHL faculty



Honourable Ministers, Government of Odisha

# **Central Research Laboratory (CRL)**

Central Research Laboratory (CRL) is located at the Anantapur Campus of Sri Sathya Sai Institute of Higher Learning and is custom-designed to cater to the research to meet the research aspirations of the faculty and students at the Anantapur Campus of the Sri Sathya Sai Institute of Higher Learning (SSSIHL). Inaugurated in August 2019, CRL houses laboratories for Wet Chemistry, Material Synthesis, and Characterization

"In the field of science today, there is great emphasis on research and discovery. But, unless the results of research are applied in practice, it will be an expensive futility. If all the time is spent on research, when is it to find useful applications in practice? Nor is there any sense of discrimination in the promotion of research...Those engaged in research seem to be more concerned about boosting their name and fame by their research than about promoting public well-being through the results of their research. Nor do they seem to be bothered about the harmful consequences of their discoveries...The scientific knowledge we acquire must be used for the benefit of our fellowmen."

#### Sri Sathya Sai Baba Revered Founder Chancellor, SSSIHL

Based on the guidelines laid down by the Founder-Chancellor, Sri Sathya Sai Baba, the research activities at the Sri Sathya Sai Institute of Higher Learning are pervasively translational, socially relevant, and intended to have a rural reach. The research work in which the faculty and students are involved encompasses three broad areas: Health, Environment, and Energy. CRL is intended to be extensively used by postgraduate and doctoral students, as well as the faculty of the campus. The following core facilities and laboratories are the shared resources of the research community at the Anantapur Campus of the SSSIHL

- Wet Chemistry Laboratories
- Materials Synthesis Facility
- High Temperature Facility
- Characterization Facility

In addition, researchers will also have access to the SSSIHL Central Research Instruments Facility (CRIF), based at the Prasanthi Nilayam Campus.







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## **Collaborations & MoUs**

SSSIHL has successfully forged several research collaborations across India and abroad with leading organizations in Academia and Industry. In 2023-24, SSSIHL signed MoUs with the All-India Institute of Speech and Hearing (AIISH), Tech Actuarial, CodeTantra Tech Solutions Pvt. Ltd., Shodh-Chakra (INFLIBNET), Metaloga Inc., Instapower, and Tranalab for collaborative research.

## MoU with All India Institute of Speech and Hearing for Collaborative Research

SSSIHL signed an MoU with All India Institute of Speech and Hearing (AIISH), Mysore, Karnataka on 20 November 2023 to further common academic interests through collaborative research and exchange of expertise, resources, and related information. One of the key areas is to address congenital problems in children with speech and hearing impairment, leading to learning disabilities.

This includes the exchange of faculty and researchers to promote research & development activities, student exchange programs including Internships and projects, and conducting seminars and lectures that further research collaboration between the two Institutions. Some of the areas of interest in the fields of Speech and Hearing include using Genetics and genomics, Big Data Analytics, Biomedical image, Signal processing, and app development for assessment and assistance to therapeutic and remedial measures. Similarly, the therapeutic use of Music & Veda, Analytical studies for developing policy guidelines, linguistic studies to identify the cause of disabilities and remedies, and Nutritional dietary supplements for the target population are the other areas of proposed collaborative research. Students Internship/Projects for Management Students is an important aspect of this MoU. The MoU was signed by Dr. M Pushpavathi, Director of AIISH, and Dr. Srikanth Khanna, Registrar of SSSIHL in the presence of Prof. B Raghavendra Prasad, Vice-Chancellor, SSSIHL, Dr. Ramkumar, Chief Administrative Officer, AIISH, Mysore, Prof. Pallav Kumar Baruah, Dean of Sciences, SSSIHL, Dr. P Sujith Kumar, Asst. Prof. Dept. of Biosciences, SSSIHL and Sri Nishikant Barodekar, Asst. Professor, Dept. of Performing Arts, SSSIHL.

#### MoU with Tranalab Pvt. Ltd.

SSSIHL has signed a Memorandum of Understanding (MoU) on 8 May 2024 with Tranalab Pvt. Ltd., a leading biotechnology company addressing one of the most pressing global health challenges, antimicrobial resistance (AMR). This collaboration aims to combine the expertise of Tranalab and SSSIHL to tackle the growing threat of AMR by testing innovative molecules developed by Tranalab against AMR pathogens.

The partnership, led by Dr. B.E. Pradeep from the Department of Biosciences, aims to test molecules developed by Tranalab for their efficacy against AMR pathogens. Both parties will seek funding opportunities to support these efforts, with Tranalab potentially funding SSSIHL for testing. Tranalab scientists may conduct research at SSSIHL, and a separate agreement will be signed for each collaborative project. The goal is to develop innovative solutions to combat the global AMR crisis.

The MoU was signed by Mr. C Ganesh, Co-founder and Director, Tranalab Pvt. Ltd., and Dr. Srikanth Khanna, Registrar of SSSIHL in the presence of Prof. B Raghavendra Prasad, Vice-Chancellor, SSSIHL, and Dr. B.E. Pradeep, Asst. Prof. Dept. of Biosciences, SSSIHL.



#### **MoU with Tech Actuarial**

On November 2, 2023, SSSIHL signed an MoU with Tech Actuarial to collaborate in building a critical mass of actuarial data scientists through research, training, and internships for students on live financial services industry projects. Tech Actuarial will provide real-world industry data, methodology, in-campus internships, and short-term certificate courses to train SSSIHL students and faculty in actuarial and data science concepts. SSSIHL will share expertise in emerging technologies like AI, machine learning, and blockchain, and offer mathematical modeling for mutually agreed-upon projects.

The MoU was signed by Mr. Satya Sai Mudigonda, Founder of Tech Actuarial, and Dr. Srikanth Khanna, Registrar of SSSIHL, in the presence of Prof. B Raghavendra Prasad, Vice-Chancellor, SSSIHL, Mr. K V R K Bhargav, Deputy Manager - Administration, and Dr. M. Muralikrishna, Assistant Professor, Department of Physics.

#### MoU with CodeTantra Tech Solutions Pvt. Ltd.,

On August 30, 2023, SSSIHL signed an MoU with CodeTantra Tech Solutions Pvt. Ltd. to enhance software programming skills among students in the Department of Mathematics and Computer Science (DMACS). The collaboration aims to produce "employment-ready" programmers using CodeTantra's disruptive Interactive Teaching platform. CodeTantra will provide the platform free of cost, maintain its uptime, and train faculty, while DMACS-SSSIHL will serve as the technical partner, offering necessary infrastructure and feedback for platform improvements. CodeTantra may also offer internship opportunities for students.

The MoU was signed by Prof. B Sai Giridhar, Registrar, SSSIHL, Mr. T S V Ramana, Chief Executive Officer, CodeTantra Tech Solutions Pvt. Ltd., Dr. M S Srinath, Assistant Professor, Department of Mathematics and Computer Science, SSSIHL, in the presence of Mr. Vivek Shrivastava, Assistant Manager - Administration, SSSIHL and Dr. D K K Vamsi, Associate Professor, Department of Mathematics and Computer Science, SSSIHL.

#### MoU with Metaloga Inc

On June 8, 2023, SSSIHL signed an MoU with Metaloga Inc. to collaborate on developing a cutting-edge pain management solution using immersive technologies like Virtual Reality (VR), Cognitive Behavioral Therapy (CBT), Acceptance and Commitment Therapy (ACT), and emotional support bots. The project aims to create a virtual environment for patients to manage pain through cognitive and behavioral interventions, enhanced by IoT-enabled biofeedback. Metaloga will develop the core solution, drawing on its experience in VR, while SSSIHL will provide research support, infrastructure, and clinical trials. SSSIHL will also involve subject matter experts

from various departments and assist in product refinement and approvals. Metaloga will help design XR courses, establish an XR lab, and offer internships and training for students in AI, ML, XR technologies, and haptics.

The MoU was signed by Dr. Y Lakshmi Naidu, Head of the Department of Mathematics and Computer Science, SSSIHL, and Mr. Sunil Kumar Golla, CEO & Cofounder of Metaloga Inc., in the presence of Prof. B Sai Giridhar, Registrar, SSSIHL, Mr. Vivek Shrivastava, Assistant Manager - Administration, SSSIHL, and Dr. D K K Vamsi, Associate Professor, Department of Mathematics and Computer Science, SSSIHL.

#### MoU with Shodh-Chakra

SSSIHL signed an MoU with Shodh-Chakra, (INFLIBNET), to collaborate on the implementation of the Shodh-Chakra platform for research management. INFLIBNET will provide platform access, integrate new features, ensure data security, and offer orientation programs. SSSIHL will register on the platform, create university profiles, verify researcher details, and encourage participation by research scholars and supervisors. Both parties agree to support capacity-building programs.

The MoU was signed by Prof. J P Singh Joorel, Director of INFLIBNET, and Prof. Pallav Kumar Baruah, Acting Registrar of SSSIHL.

#### **MoU with Instapower**

SSSIHL signed an MoU with Instapower to collaborate on research in areas such as photonics, materials science, IoT, and additive manufacturing. Instapower will provide industryrelevant problems, data, and research inputs, while SSSIHL will develop hardware and software solutions through continuous dialogue with Instapower experts. The collaboration will also involve joint research, consultancy, lectures, workshops, and student internships. Both parties aim to leverage each other's strengths for national and socially relevant projects.

The MoU was signed by Prof. Pallav Kumar Baruah, Acting Registrar of SSSIHL, Prof. Gowrishankar, Head, Department of Physics, SSSIHL, and Mr. H R Vaish, Managing Director of Instapower, in the presence of Dr K Vijay Sai, Associate Professor and Dr. M Muralikrishna, Assistant Prof., both from the Department of Physics, SSSIHL.

# **Research Areas**

## **Biosciences**

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#### **Antimicrobial Resistance**

The AMR laboratory is dedicated to understanding the fundamental principles involved in the acquisition of antimicrobial resistance determinants and their dissemination among clinically relevant pathogenic bacteria. We apply this knowledge to develop tools for rapid, point-of-care diagnostics to support bedside treatment of drug-resistant bacterial infections.

Our multidisciplinary and collaborative approach integrates wet lab research, whole genome sequencing, Artificial Intelligence (AI), Machine Learning (ML), and biostatistics to explore the emergence of antimicrobial resistance. In addition, we are developing predictive models to facilitate the swift diagnosis and prediction of bacterial infections.

Our state-of-the-art AMR biorepository houses 4,000 clinically isolated bacterial pathogens, supported by a dedicated cell culture facility that enables host-pathogen interaction studies. Our research benefits from national and international collaborations with academic institutions, research institutes, hospitals, and industry partners.

#### **Disease Biology**

#### **Protein Aggregation Diseases**

In Huntington's Disease (HD) we have demonstrated using multimodal MRI that changes in brain volume, fractional anisotropy, apparent diffusion coefficient, metabolic changes, and glucose utilization precede the onset of symptoms. Further, using metabolomic analysis we have demonstrated the deregulation of metabolic pathways in pre-symptomatic and symptomatic patients which overlap with deregulated metabolic pathways in the yeast model of HD. Using metabolic addition and gene knock-out experiments we have demonstrated that these pathways modulate mutant aggregation in yeast models of HD. B6, B12, and folate could mitigate mutant Huntington aggregation potentially by modulating deregulated metabolic pathways. Our results show that early intervention during the pre-symptomatic stage in genetically susceptible individuals by maintaining metabolic homeostasis might help in better management of the disease.

**In Amyotrophic Lateral Sclerosis (ALS)** using publicly available data sets we showed oxidative phosphorylation as a common deregulated pathway across data sets. Further, using the yeast model of ALS we demonstrated complex III and IV modulated aggregation of wild-type and mutant FUS and TDP43 with implications for disease. The addition of metabolites from deregulated pathways like Glutathione, short-chain fatty acids, and Nicotinic acid cleared TDP-43 aggregates. Ginseng and its component flavonoids and Ginsenosides could clear FUS/ TDP-43 aggregates **In Alzheimer's Disease**, an integrated multi-omic analysis was carried out which showed a role for vitamin B2, B5, and B6 as potential therapeutic agents in the disease.

**Dengue:** Integrated clinical and metabolomics analysis showed an association of molecular signature with different phases of dengue infection. These molecular signatures correspond to host and parasite-related responses.

Cardiovascular Disease including coronary artery disease, heart failure, and stroke, are global leading causes of morbidity and mortality. Conditions like hypertension, hyperlipidemia, and lifestyle factors contribute to these diseases. Major adverse Cardiovascular Events (MACE), and serious outcomes from CVDs, are key measures in clinical trials for evaluating treatment efficacy. Notably, disparities exist in cardiovascular health between rural and urban populations. Rural communities face higher CVDs and MACE burdens due to limited healthcare access, prevalent risk factors, and unique socio-economic challenges. This necessitates targeted research and interventions. Metabolomics, the study of small molecules in biological fluids, provides insights into CVD diagnosis, treatment, and prevention, offering novel avenues for targeted research. In this regard, plasma samples from myocardial infarction patients at Sri Sathya Sai Institute of Higher Medical Sciences, Prashantigram, are being analyzed using a metabolomic approach to identify potential signature profiles.

#### Retrospective Study of Percutaneous Transluminal Coronary Angioplasty (PTCA)

Percutaneous transluminal coronary angioplasty (PTCA), a procedure to open blocked coronary arteries, has grown exponentially since its introduction in 1977. Despite advances, restenosis, the re-narrowing of stented segments, is a common issue, often resulting in further procedures. A retrospective study is being conducted in collaboration with Sri Sathya Sai Institute of Higher Medical Sciences, Whitefield Bengaluru, to understand short- and long-term outcomes of PTCA patients by analyzing risk factors and lab parameters. Objectives include examining mortality and restenosis about various factors such as LVEF and serum creatinine levels at admission or high sugar levels. The study also explores whether gender influences late admission and whether blood pressure reduces after PTCA.

#### **Diabetes Vascular Complications**

Type 2 Diabetes Mellitus (T2DM) is a chronic and complex metabolic disorder, characterized by hyperglycemia due to impaired insulin secretion and function. Chronic hyperglycemia, along with associated abnormalities such as inflammation, oxidative stress, mitochondrial dysfunction, advanced glycation end-products (AGEs), and lipotoxicity, are primary contributors to the development of cardiovascular diseases in T2DM. The present study aims to explore the relationship between these multiple factors and the pathophysiology of cardiovascular disease by integrating multi-omic analyses, clinical data, and in vitro model systems.

#### **Health And Environment**

#### Exploring Bioactive Compounds of Endophytic Fungi Associated with Swietenia *Macrophylla* and *Bauhinia purpurea*

Endophytic fungi identified as *Alternaria* alternata BRN 05 and *Nigrospora sphaerica* BRN 01 were cultivated in two different media - full-strength (FS) and quarter-strength potato dextrose broth (QS). We conducted a comprehensive metabolic profiling of the crude extract using LC-MS-QTOF in positive and negative modes. Targeted analysis of the extract was performed using a library of approximately 850 metabolites, with each molecule's conformation determined through Metfrag, a bioinformatic software, and literature references. The metabolites were classified based on their occurrence in the respective media. Unique metabolites were found exclusively in the QS media, while others were common to both FS and QS. We utilized GNPS and Classical molecular networking for untargeted analysis, and the resulting data were analyzed using the Cytoscape software.

Furthermore, we conducted in-silico studies employing ensemble docking and molecular simulation studies to understand the interactions between the identified compounds and alpha-glucosidase. To assess cytotoxicity, we performed cell viability assays using normal cell lines.

#### **Microbes in Waste Water**

Our focus is on identifying potential fungal isolates collected from domestic wastewater treatment plants for exploring their bioremediation properties and their effectiveness in the biomedical field. Three Aspergillus isolates which are molecularly identified, showed prominent results concerning remediation of dyes and biomedical activities. Aspergillus tamarii has shown good biosorption ability on two commercially used textile dyes Malachite Green and Reactive Black 5, both being carcinogenic to living beings and affecting the environment adversely. A. tamarii decolorized 95% of the said dyes up to 100 mg L<sup>-1</sup> concentration. Treated samples were further investigated based on the spectroscopic and chromatography methods for any toxic by-products, which were then tested against living specimens (bacterial strains from wastewater). It showed no adverse effect on them and the fungal biomass could be regrown after taking up the dyes.

#### Fungal Biotechnology: Potential Applications of Fungi for Micro-pollutant Degradation

Organic micropollutants are persistent and occur in the environment in concentrations ranging from a few ng/L to several ug/L. The widespread presence of micropollutants in the environment has become a major cause of concern. The focus of our research is to harness the potential of locally isolated fungi for organic micro-pollutants remediation. In this regard we have isolated fungi from wastewater and soil namely MDWWF-2,5,6 and 8, and two novel strains of *Aspergillus arcoverdensis* and *Aspergillus* melleus which have shown the potential against selected micropollutants (Triclosan, malathion, methoxychlor, diclofenac, ciprofloxacin, etc.). Currently, we are working on finding out the best and most economical mechanism to counteract the pollutants, which includes intra-extra cellular enzymes and later the applications to treat the contaminated water

#### Wastewater Analysis, Treatment, and Energy Recovery

Wastewater is a valuable resource that can be treated and reused for non-potable purposes, particularly in regions facing water stress. The WATER laboratory within the Department of Biosciences is dedicated to developing affordable methods for wastewater analysis and treatment. Currently, the lab is focused on creating colorimetric techniques for wastewater characterization and exploring microbial electron transfer to harness energy from wastewater.

#### **Protein Structure and Function**

Protein Structure and Function laboratory focuses on understanding the structural and functional dynamics of proteins using in vitro and in silico experimental methods. Making use of the fundamental knowledge obtained, we also explore using the proteins for various biotechnological applications. Specifically, we focus on revealing the moonlighting enzyme function of oxygen carrier proteins - Hemocyanins and apply the biomacromolecules in the fabrication of enzyme-based biosensors. Further, we also carry out Computer Aided Drug Design and Discovery targeting proteins involved in infectious and non-infectious human diseases. Our efforts involve virtual screening with natural product libraries and drug repurposing by molecular docking followed by molecular dynamics simulations.

## Chemistry

#### Atmospheric Chemistry Research (ACR)

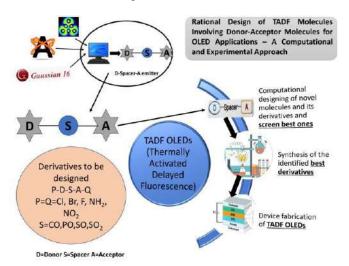
Every day, as we breathe, an invisible storm of particles and molecules infiltrates our bodies, posing a threat not only to our lungs but also to crops. Air pollution has become a major global concern due to its detrimental effects on human health and climate. Our research focuses on developing advanced offline techniques for screening and quantifying the organic and inorganic constituents present in the inhalable fraction of particulate matter. We utilize state-of-the-art spectroscopic and mass spectrometric methods, including HPLC, LC-MS QQQ, LC-MS QTOF, GC-MS, and microwave plasma atomic emission spectroscopy (MP-AES). This approach enables us to identify the sources of ambient particulate matter, both locally and regionally, and to develop effective mitigation strategies.

#### Rational Design of TADF Molecules Involving Donor-Acceptor Molecules for OLED Applications - A Computational and Experimental Approach

The field of thermally activated delayed fluorescence (TADF) is at the forefront of OLED technology research, with efforts

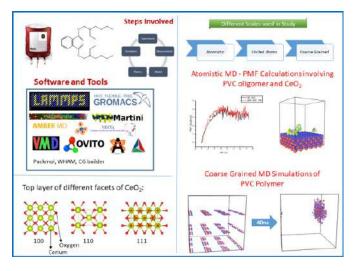
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focused on designing novel molecules for advanced OLED applications. TADF emitters are particularly promising as next-generation organic electroluminescent materials because they produce light by harvesting both singlet and triplet excitons. For a molecule to function effectively as a TADF emitter, it must be rigid, possess strong conjugation, and have a pre-twisted structure between the donor and acceptor (D-A) moieties, which helps achieve small  $\Delta$ EST values, thereby enhancing the rate of reverse intersystem crossing (RISC). This project explores the design of various donor-acceptor (D-A) molecule pairs through a combination of computational and experimental approaches. The computational work involves designing and screening novel donor-acceptor organic molecules for optimal TADF properties. On the experimental side, the project includes the synthesis of selected molecules, followed by steady-state absorption and fluorescence measurements, ultrafast spectroscopic measurements on picosecond (10<sup>-12</sup> s) and femtosecond (10<sup>-15</sup> s) timescales, and electrochemical experiments.



#### **Coarse-Grained Modelling of Polymer Nanocomposites**

Molecular dynamics (MD) simulations are a powerful tool for studying the structure, dynamics, and stability of various systems. Typically, these simulations are limited to small timescales (<10 ns) due to the high computational demands of large systems. However, by using coarse-grained (CG) models-where small groups of atoms are represented as single particles-we can extend these timescales beyond 100 ns. Coarse-graining reduces computational costs by lowering the number of degrees of freedom in the model, enabling simulations of larger systems over longer durations. This project focuses on conducting coarse-grained molecular dynamics simulations of CeO2 nanoparticle-doped PVC (polyvinyl chloride) polymer nanocomposites. The polymer will be modeled using coarse-grained techniques, and its interactions with the nanoparticles will be studied to assess changes in the material's various properties.



## Novel Bioactive Biomaterials for Orthopedic Applications and Dental Implants

The primary goal and challenge of bone tissue engineering (BTE) is to develop materials that can effectively support bone regeneration and achieve strong integration (osseointegration) with surrounding tissues. Each year, a significant number of bone grafts are required for the clinical treatment of bone defects. Among the most commonly used biomaterials for bone tissue regeneration are ceramics based on hydroxyapatite and tri-calcium phosphate, valued for their chemical and structural similarity to the inorganic matrix of natural bone, as well as their excellent bioactivity. Consequently, the exploration of novel biomaterials is crucial in the search for suitable bone regeneration materials.

## Bio-polymers as Effective Adsorbents for Greenhouse Gas Removal

In recent years, bio-polymers have gained prominence across various scientific disciplines due to their exceptional properties and wide range of applications. Their abundance, low cost, and environmentally friendly nature make them particularly advantageous. Through suitable modifications, these naturally available molecules can be transformed into novel materials with enhanced properties. In the current study, biopolymers were investigated as potential adsorbents for CO gas removal. The polar groups on the monomeric units of biopolymers can bind CO molecules through non-bonded interactions. Since biopolymers are bulk molecules and adsorption is a surface phenomenon, quantum mechanical studies on their constituent monomers are crucial for understanding the nature and strength of interactions between the adsorbate and adsorbent at the molecular level.

#### Waste-derived Multifunctional Fluorescent Carbon Nanodots as Potential Antimicrobial, Antioxidant, and Anticancer Agents

The use of food waste-derived fluorescent carbon nanodots as potential antioxidants, antimicrobial, and anticancer agents represents a groundbreaking approach to both waste management and healthcare. By repurposing food waste—such as fruit peels, vegetable scraps, and other organic residues into fluorescent carbon nanodots, we address waste disposal challenges while unlocking valuable materials with promising biomedical applications.

These carbon nanodots exhibit intrinsic fluorescence, making them suitable for imaging and sensing applications. Their inherent antioxidant properties also offer the potential for combating oxidative stress. Furthermore, their antimicrobial and anticancer activities are being investigated to develop new therapeutic agents and treatment modalities. This innovative approach not only enhances the sustainability of nanomaterial production but also paves the way for the development of multifunctional agents in both medical and environmental applications.

#### Design, Synthesis, and Biological Evaluation of Novel Pyrimidine Derivatives as Anti-Cancer Agents

Pyrimidines and their derivatives have long been recognized for their diverse biological activities. Recently, pyrimidine analogs have gained attention in the field of small molecule anticancer drug research due to their ability to mimic natural pyrimidines in DNA and interfere with cellular pyrimidine biosynthesis in tumor cells. In particular, pyrimidine-4amine shows great promise as a candidate for developing new anti-cancer agents. Modifications to the pyrimidine structure, incorporating key pharmacophores found in existing small molecule anticancer drugs, open opportunities to explore novel chemical spaces that could enhance drug discovery. Employing a diversity-based synthetic strategy, new pyrimidine-based molecules are being designed and synthesized to selectively target cancer cells. This approach seeks to minimize damage to healthy cells and reduce side effects, potentially offering more effective and safer treatment options.

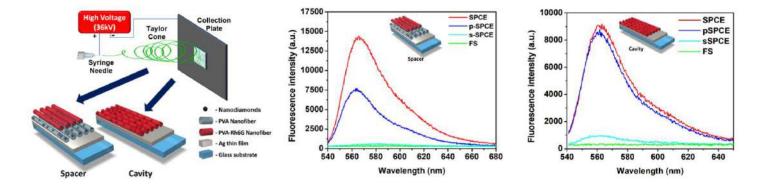
## Synthesis of Potent Biologically Active Natural Product Derivatives

The synthesis of natural products and their derivatives with diverse biological activities is a crucial area of research in organic synthesis. Natural products like Andrographolide and Arjunolic acid exhibit a range of properties, including anti-cancer, antibacterial, antiviral, antidiabetic, and cardioprotective activities. *Andrographis paniculata*, an

Ayurvedic herb, has traditionally been used to treat various ailments such as diabetes, malaria, and cancer. Semisynthetic derivatives of Andrographolide were prepared through targeted functionalization and evaluated for their anti-cancer activity. Studies, including one-dose and fivedose regimens conducted at the National Cancer Institute (NCI), followed by in vitro assays, helped identify the most active compounds. These studies provided IC50 values and insights into the mechanisms of action. The structure-activity relationship (SAR) analysis resulted in the development of potent anti-cancer compounds with significantly enhanced activity compared to the parent natural product. Additionally, *Terminalia arjuna* extract is utilized as a cardioprotective tonic. A novel process was developed to isolate Arjunolic acid with high purity from Terminalia arjuna, separating it from the closely related diastereomer Asiatic acid, and this process has been patented. Arjunolic acid derivatives with promising in vitro anti-cancer activity have been synthesized, and further in vivo studies are needed to fully explore the potential of these compounds.

#### Electrospun Nanofibers for Fluorescence-based Sensing Applications: An Eco-Friendly and Cost-effective Transition from 2D Nano Thin Films to 1D Nanofibers

Low-dimensional polymeric nanoscale materials such as 2D thin film materials and 1D nanostructures have gained attention in the areas of composite structures, electronics, biosensors, and plasmonics. Of these, 1D polymeric nanofibers have been utilized for various applications over two decades and are seen as potential replacements for thin films due to their excellent physical and mechanical properties. Among the several methods to fabricate 1D nanostructures, electrospinning is a well-established, versatile, and costeffective technique for the production of nanofibers at submicron levels. The synthesis of electrospun PVA nanofibers doped with Titania nanoparticles (NPs) and nanodiamonds was developed and utilized in plasmon-coupled fluorescence studies to obtain augmented enhancements. The highest enhancements were about 150-fold which are comparable with 2D thin films. The nanofibers presented emission enhancements that are greater and highly polarized even at increased concentrations of PVA vis-à-vis thin films that show dual polarizations at higher concentrations of PVA. These results show that 1D nanofibers can be used as green & and low-cost replacements for 2D nano-thin films.



## **Education**

#### The Effect of a Value-Integrated Constructivist Approach on Academic Achievement and Life Skills Development in Secondary School Students

Constructivism, a learning philosophy, emphasizes meaningful, student-centered learning by tapping into a child's natural abilities. When values are consciously integrated into this approach, it not only enhances students' academic rigor but also increases their openness to scientific concepts and the application of those concepts to practical life skills. This research aims to bridge the unique capabilities of the mind with the learning process, fostering a strong value system that ultimately translates into talents and essential life skills.

#### The Role of School Climate in Promoting Psychological Well-being of Adolescent Students: Aligning with NEP 2020

This research explores how school climate, in alignment with India's National Education Policy (NEP) 2020, can support the psychological well-being of adolescents. The NEP 2020 emphasizes holistic development and inclusivity, advocating for safe, supportive, and stimulating learning environments that foster both academic and socio-emotional growth. This study examines factors such as positive teacher-student relationships, effective disciplinary practices, peer support systems, and inclusive policies that enhance student engagement, mental health, and overall well-being. By aligning school climate with NEP 2020 objectives, the research seeks to identify strategies that create nurturing educational spaces crucial for adolescent development, which, in turn, lead to better academic outcomes and lifelong well-being.

## **Food & Nutritional Sciences**

## Novel Functional Food Approaches for Disease Mitigation

Functional foods and nutraceuticals are emerging as promising alternatives with therapeutic and health benefits. This research focuses on identifying functional foods and nutraceutical ingredients through food metabolomic databases. The development of novel functional food products using evidence-based ingredients aims to manage the following conditions:

 Metabolic Diseases (e.g., Diabetes) and Gut Health: This research centers on creating dietary interventions to manage and prevent these conditions, including the formulation of an onion-based functional food mix and food products enriched with the health mix. These products are evaluated for specific health benefits. Molecular gastronomic food products using onions for diabetes and gut health were also developed and assessed.

- Anti-inflammatory and Anti-viral Assessments: Heritage rice varieties were studied for their antiinflammatory and anti-viral properties, leading to the development of gut-friendly, Ayurvedic multi-therapeutic beverages, which showed promising results.
- **Micronutrient Malnutrition:** Micronutrient fingerprinting of Indian heritage rice varieties and fortification studies were conducted to address iron and zinc deficiencies. Protein- and mineral-enriched pigmented rice-based confectionery products were developed, showing good sensory acceptability and nutritional profiles.

#### Evaluating the Efficacy of Microbiome Therapeutics in Modulating Iron Metabolism: A Translational Research Perspective

Iron deficiency anemia (IDA) is a global health challenge, causing physical and cognitive deficits, particularly in vulnerable populations. This research explores microbiomebased interventions to enhance iron absorption and metabolism. In vitro and in vivo studies investigate factors





influencing iron bioavailability, using advanced techniques to measure iron absorption, retention, and gut microbiota composition. By examining interactions between gut microbiota and iron metabolism, this research aims to uncover mechanisms through which microbiome therapeutics can improve iron status, potentially leading to new therapeutic strategies and public health recommendations.

#### Nutrition Care Plan (NCP) in Hospital Settings

Malnutrition contributes significantly to hospital morbidity, mortality, and costs. Screening for malnutrition risk on admission is crucial for developing a tailored nutrition care plan. This research aims to:

- Develop a modified screening tool for rapid nutrition assessment.
- Create low-cost nutrient-dense feeds, compared with commercial formulas.
- Produce educational materials to provide ongoing nutrition care during the convalescent period.

These strategies aim to provide comprehensive nutrition therapy, monitor progress, and achieve nutritional goals in hospital settings.

## Community Outreach Research Focused on Nutrition Education

This research highlights the importance of breakfast and healthy snacks in promoting health, particularly among adolescent girls. It focuses on understanding dietary habits, barriers to healthy eating, and nutritional knowledge in diverse populations. Educational interventions stress the benefits of a balanced breakfast for metabolism, cognitive function, and sustained energy, as well as healthy snacks for regulating blood sugar and preventing overeating. Community outreach efforts include workshops and personalized guidance, aimed at fostering healthier eating habits, reducing chronic disease risk, and improving quality of life, especially in underserved communities.

#### **Gluten-free Millet-based Meal Box**

The Millet Meal Box is an innovative nutrition solution featuring a variety of millet-based products, including snack bars, smoothie mixes, and porridge. Millets, rich in fiber, protein, and essential minerals, provide gluten-free, nutritious meal options. This research shows millet's benefits in regulating digestion, blood sugar, and heart health due to its high fiber content and low glycemic index. Additionally, millets are sustainable crops, requiring less water and thriving in arid conditions, making them a valuable alternative to traditional grains. This research underscores millets' role in promoting nutrition, health, and environmental sustainability.

## Valorization of Vegetable Peels as a Source of Polysaccharides

Food processing generates significant waste, including valuable byproducts such as fiber, pectin, and antioxidants. This research examines the potential of leguminous vegetable peels as sources of starch and fiber, which were incorporated into value-added foods like crackers and soup mixes. The study aims to utilize these byproducts to create functional foods while addressing waste management in the food industry.

#### Investigation of "Mislabeling" in Indian Health Foods

One of the most recent risks in the area of food safety and quality assurance is "mislabeling", where the labels printed on the food package do not represent the true nature of the food material inside the package. Incorrect nutritional values, use of unjustified health claims, and misinformation about the quantity, manufacturing, and expiry dates are the most common examples of mislabeling. Labels being the only connection between the manufacturer and the consumers, mislabeling might impose great health hazards on consumers. Investigative studies on popular Indian health foodsprotein supplements and immune booster supplementsrevealed discrepancies between label claims and actual contents. Protein supplements were found to contain higher carbohydrates and fat than stated, while immune boosters exhibited wide variability in vitamin C and zinc content. This research highlights the need for stricter regulations and transparency in food labeling to protect consumer health

#### Plant-Powered Progress: Advancing Plant-Based Milk Analogues

The growing interest in plant-based diets has led to a significant shift in dietary habits, prioritizing the consumption of fruits, vegetables, legumes, nuts, seeds, and grains. A key aspect of this shift is the replacement or partial substitution of traditional animal-derived milk with plant-based alternatives, particularly milk analogues. Plant-based milk analogues (PBMAs) offer various nutritional benefits, such as lower levels of saturated fats and calories, and are often fortified to meet or exceed the nutritional profiles of traditional dairy foods. The study aimed to develop and evaluate the potential of PBMAs as sustainable and nutritious dairy milk substitutes and the research suggests that PBMAs like oat milk, corn milk, and little millet milk can be sustainable alternatives to traditional cow's milk. These alternatives offer high nutritional content, including high protein, iron levels, and total polyphenol content. They are also suitable for various culinary applications, making them appropriate for individuals with dietary restrictions or preferences. The research examined the application of PBMAs in a range of food products, including beverages, frozen desserts, and traditional foods. Further research is needed to improve the quality, functionality, and acceptance of PBMAs, driving innovation and sustainability in the global food system. The findings highlight the versatility

and nutritional potential of PBMAs, emphasizing the necessity for ongoing optimization in this domain. This innovation not only caters to diverse dietary needs and preferences but also aligns with health and sustainability goals. Further research in this area will be pivotal in advancing the development of PBMAs and their applications in the global food system.

#### Non-Thermal Radiofrequency (RF) Treatment for Shelf-Life Extension of Organic Whole Tomato Fruits

Recent advancements in postharvest technology have spotlighted radio frequency (RF) heating as a promising method for enhancing the quality and shelf stability of organic whole tomatoes. RF heating operates through dielectric heating, where electromagnetic fields induce molecular vibration within the tomato, generating heat uniformly throughout the fruit. This non-thermal approach effectively mitigates microbial contamination and enzymatic activities responsible for spoilage, without compromising the fruit's nutritional and sensory attributes. Current research is focused on optimizing the time and temperature parameters of RF treatment to maximize efficacy while maintaining the organic integrity of tomatoes. Ongoing studies aim to refine the optimal RF treatment parameters, ensuring minimal impact on the fruit qualities while maximizing microbial inhibition and shelf stability. Preliminary results indicate that specific RF treatment conditions can significantly extend shelf life by reducing microbial load and delaying senescence, thereby preserving firmness, flavor, and nutritional content. Hence, the integration of RF heating into postharvest management holds high potential in the organic tomato industry by enhancing economic viability and sustainability.

## **Humanities & Social Sciences**

#### **Economics**

Research at the Department primarily focuses on financial and macroeconomic modeling leading to policy analysis of the domestic and international economies. While the studies relating to economic policies, financial markets, and their interlinkages in emerging economies were taken up on the international front, the research on the domestic economy concentrated on diverse issues relating to various aspects of the Indian economy.

#### Macroeconometric Modelling of the Indian economy

This study addresses both theoretical and empirical issues pertinent to the macro-modelling of the Indian economy. It focuses on the use of econometric models for forecasting, policy analysis, and planning, and emphasizes the importance of validating these models to ensure their relevance and impact on policy-making. Effective policy modelling is crucial for achieving sustained economic growth, equitable income distribution, and overall stability within the economy and society. Key areas for research include modelling the external sector, analyzing monetary policies, and examining other macroeconomic aggregates of the Indian economy.

#### **Financial Economics**

The financial sector is often considered an engine for economic growth in any economy, leading policymakers to frame policies that aim to develop and promote the sector. However, evidence in the literature suggests that the expansion of the financial sector, also known as financialization, can result in a decline in real sector growth. As the financial system continues to grow in all dimensions in both developed and developing economies, it is crucial to determine the extent to which financial expansion contributes to the overall growth process of an economy. In the context of emerging economies, where challenges such as poverty and inequality are prevalent, there is a pressing need to estimate the threshold level of financialization. This is essential as emerging economies often face unique challenges, and understanding the optimal level of financial development can help mitigate potential negative impacts on the real economy. Therefore, this study aims to estimate the threshold level of financialization beyond which it may become growth-suppressing.

#### Regional Inequality in Financial Inclusion in India: The Role of Micro Finance Institutions and Lessons from South India

- To examine the inter-regional disparity in the penetration of MFIs in India with a focus on the North-South divide.
- To understand the underlying factors responsible for the MFIs penetration imbalance between the north and south Indian states.
- To provide feasible recommendations to enhance the footprint of MFIs in the north Indian states thereby promoting financial inclusion in India.
- To identify the challenges faced by MFIs in achieving their goals of financial inclusion in North India.
- To study the role of Joint Liability Groups (JLGs) as enablers of financial inclusion in India

#### **Agricultural Economics**

Agricultural crop revenue protection for Indian farmers. With about 45% of the workforce in agriculture, India's agricultural sector contributes 18% of GDP. Thus, farmers become an integral part of the sector, and protecting crop revenues is crucial to safeguard farmers' incomes. An effective crop revenue protection strategy is essential to secure farmers' livelihoods, using predictive analytics to manage risks tied to volumes and prices. Based on our comprehensive literature review for this project, we have identified a research gap related to the estimation of revenue. To fill this research gap, we propose the use of predictive analytics to develop appropriate methods for revenue estimation that incorporate both volume and price projections. By taking a more comprehensive approach to revenue estimation, we believe that a more accurate and nuanced understanding of revenue can be gained. This, in turn, could have practical implications for farmers, government, and businesses looking to forecast revenue, allocate resources, and make strategic decisions based on those forecasts. We also plan to develop an Actuarial Data Science framework tailored to meet the revenue protection needs of Indian farmers, focusing on the identified crops, and incorporating key risk factors and market dynamics.

## Health Economics: A Study on Sathya Sai Healthcare's Mission

This study explores the Sri Sathya Sai Healthcare mission by examining all four hospitals under the Sri Sathya Sai Central Trust: the Mobile Hospital, General Hospital, and Super Specialty Hospitals at Whitefield and Puttaparthi. The primary objectives of this study are to:

- Assess the overall functioning and service delivery of the Sri Sathya Sai hospitals.
- Evaluate the impact of these hospitals in reducing out-ofpocket healthcare expenses for the beneficiaries.
- Measure the satisfaction levels of patients and families receiving healthcare services.
- Study the role of these hospitals in promoting preventive healthcare, particularly among vulnerable rural populations.

## Languages & Literature

#### English

#### The neo-Vedantic 'Self' in Romantic Poetry:

In this 'post-human' world, the idea of a cohesive, integrated human Self has become problematic and challenging. It has an impact on the way humans perceive themselves and the world they inhabit. In the thesis, the author strives to prove that the idea of a disunified, fragmentary Self is the outcome and natural progression of the *essentialist*, rational Self of the Western Enlightenment. Neo-Vedanta talks of the Self, moving towards gradual unity and Transcendence from duality. This is echoed in Romantic poetry, which advocates for a unified Self, and reveals a relationship between the Self and the world.

#### Development and Validation of a Model and a Measurement Scale for Communicative Competence:

This study seeks to address the gap in the measurement of communicative competence by developing an eclectic model and corresponding scale. The research involves constructing a novel model based on existing frameworks and creating a scale to measure communicative competence. The proposed scale will be validated through qualitative methods, including corpus analysis and specialized software. The resulting comprehensive model integrates diverse constructs of communicative competence, offering a multifaceted measurement tool. The study's outcomes are expected to benefit both academic research and practical applications by providing an innovative approach to assessing and enhancing communicative practices in educational and professional contexts.

#### A Literary Move from Climate Silence to Climate Action: An Ecosophical Reading of Amitav Ghosh's Selected Novels:

Environmental concern is one of the most debated areas of study in recent times as many prominent writers and critics have voiced their concerns about it and on it. Cli-fi, a branch of ecocritical study, highlights the impact of climate change on human life through scientific storytelling. The Research on Amitav Ghosh's writings aims to raise awareness about environmental crises among the younger generation and debunk the idea that climate change is a mere theory. The study highlights the social relevance of Ghosh's novels in raising climate change awareness and inspiring action. It emphasizes the role of cultural narratives in shaping attitudes, the need for interdisciplinary approaches, and the importance of climate justice. Further, engaging the readers will influence policy & advocacy towards sustainable practices.

## An Indian Philosophical Reading of Iris Murdoch's Novels:

Though many Indian scholars have studied the works of Iris Murdoch, it has mainly been through the Western philosophical lens. This research draws on fascinating sources, like the original commentaries from the archives. The archival element makes the work novel and original. Focusing on the complexities of power identity, morality, and ethics and their perception among the Indian audience, the work intends to convey the intellectual, cultural, and philosophical influences of Murdoch's work in an Indian context. It emphasises on how Murdoch's works are interpreted by readers in India. It has a national relevance as the work tries to bring a confluence of Eastern and Western philosophical concepts.

#### Trauma Studies in Kashmir Literature in English:

The research aims to study the trauma of Kashmiris as portrayed in literature. The traumatic events and their effects on the Kashmiri natives as represented by the writers in their narratives are analysed for a better understanding of the problem at hand. The study looks forward to exploring how the collective national trauma as well as intergenerational trauma can be addressed from the Trauma Studies perspective to get an all-inclusive academic understanding of real human experience. The topic is widely discussed in the literary/ academic fields under various subcategories.

#### Comparative Poetics: Sanskrit and English:

Speech, the most used medium of communication, is delivered in countless languages. But now, when even new languages are formed and used, the oldest tongue of India, Sanskrit has taken a backseat. Sanskrit is known as the Deva Bhasha or the language of Gods. It has rich poetics, grammar, and literature. In the modern age, even in India, we read, analyse, and form opinions on literature based on Western theories. These same Western theories which are recently 86

formed owe their origin to Sanskrit theories dating back from the 2nd to 11th centuries. Through this research, the Sanskrit literary theory of Dhvani and its various kinds are used to analyse English poetry. This research has national relevance as it magnifies the richness of Sanskrit which has paled into insignificance in this era.

#### **Cognitive Poetics of A K Ramanujan:**

This research explores the multifaceted dimensions of A K Ramanujan's poetry in English, investigating how methods from cognitive stylistics can contribute to the formation and interpretation of images as metaphors that structure the poetry, poetics, and life of A K Ramanujan. Through the analysis of primary and secondary sources, including archival material, this study aims to unravel the interplay between linguistic, conceptual, and image-schematic elements within Ramanujan's oeuvre of poetic image-turned-metaphors. A cognitive stylistic research of A. K. Ramanujan's poetic images emphasizes the crucial role of language in shaping thought and identity.

#### Exile, Memory, and History:

An examination of the Palestinian diaspora at crafting an unblemished historical account of their traumatic experiences. This research endeavors to explore the multifaceted nature of nostalgic memories as depicted through exilic narratives in the autobiographical writings of the Palestinians displaced following the 1947 exodus. Additionally, this study aspires to address existing historiographical gaps and construct a revised historical narrative. This research also examines how the exiles adapted to their new lives and how their memories and traumatic experiences contributed to the redefinition of their national identity.

#### Space, Place, and Species in Emerging Ecologies:

A Study of Narratives Based on River Teesta: Living in a world marked by a deepening ecological crisis demands seeking various models of sustainable solutions including regionspecific ones. This work establishes how regional ecocultural narratives constitute a site of affective engagement obtaining among space, place, and species in a life place by analysing narratives based on River Teesta. The study analyses a range of narratives based on River Teesta such as folklore and indigenous oral narratives; eyewitness narratives of ecological catastrophes along Teesta River Basin; regional fictional narratives; and documentaries, identifying the river as an ecocultural keystone and theorising Teesta as a lifeplace, a concept in bioregionalism.

## Exploring the Theory of Narrative to Unravel Narrativity in Indian English Lyrics:

This Research will help fellow researchers to understand the concepts of Narratology, Narrative discourse, and Narrativity in Lyrics to an extent. Narrative Lyrics are not very common. These poems will make the reader experience the world of the Novel through short verses. It will also motivate poem

lovers to read Jayanta Mahapatra and his contemporaries. The readers will start reading a poem not like a set of stanzas or couplets but like a story. Looking at the narrative techniques in a lyric will take the reader from a world of rhymes and rhythms to a world of narration.

## Indian Picture-books in English and Material Engagement Theory:

Indian picture-books in English are a recent phenomenon that has immense potential in scaffolding a child's development in all spheres. The research attempts to look at how the multimodal and material aspects of the picture book enable the child reader to understand the world around and oneself through material engagement and play with the picture book. By contextualizing the work to the Indian environment, the work tries to look at how the nation's social, cultural, and economic situations influence the content of the picture books, which in turn molds the identity of the child reader.

#### Telugu

#### Malladi Venkata Krishnamurthy's First Decade of Social Novels: Characterization from 1973 to 1982

Malladi Venkata Krishnamurthy, a prolific writer, authored over a hundred novels spanning a wide range of themes. This study focuses specifically on his social novels written between 1973 and 1982. The primary aim is to analyze the psychological depth of the characters, explore how the issues depicted in these novels resonate with contemporary situations, and reveal the underlying messages the author subtly conveys through his work.

### **Management & Commerce**

## Systematic Literature Reviews in Sustainable Consumption

The research focus is on compiling the existing extant literature scientifically and methodically to provide insights to various industries and future research scholars. The industries studied include the sustainable fashion industry, luxury goods, durable goods, and Plant Based Meat Substitutes. The systematic reviews are carried out based on existing frameworks like PRISMA and SPAR-4-SLR. The analysis is based on various frameworks like ADO Framework, TCCM Framework, Hybrid frameworks, Theory-based reviews, etc. The research provides a comprehensive understanding of existing literature and a detailed discussion of future research agendas.

#### Spirituality - An Attitudinal Variable Among Other Factors that Drive Purchase Behaviour of Green Consumer Segment

The research tests the effect of spirituality as one of the attitudinal determinants of green consumer behaviour. The study undertook spirituality as one of the factors, along with

others, to test the hypothesis. Quantitative research was carried out, and structural equation modelling was performed to test the direction of the relationship between the variables under study. The research not only adds a new worldview to the existing literature but also carries important implications for Marketers, businesses, policymakers, and future researchers.

#### **Vulnerability in Leadership**

The current study, having embraced an ambivalent definition of vulnerability, focuses on understanding the expression of vulnerability by top management across different industries in corporate India based on motivations of its imperative relevance on academic and industry fronts. On discovering vulnerability and disclosure, insights into accrued benefits, including organisational citizenship behaviour & and perceived leader effectiveness, shall emerge, which could then be harnessed via leadership development programmes and associated interventions toward leadership development in India.

#### **Rural Development in Particular Rural Entrepreneurship**

The research focuses on analysing the measures taken by both state and central governments for rural development in India. A key aspect of the study is to examine the budget allocations dedicated to rural development initiatives and compare them with other priorities like agriculture. The research aims to compare various entrepreneurship development programs implemented by the governments to foster rural entrepreneurship. By assessing the impact of these programs, the study seeks to identify which initiatives have been more successful in promoting entrepreneurial growth and sustainable economic development in rural areas. This will provide insights into the most effective approaches for supporting rural entrepreneurship.

#### A Study to Understand the Intricacies of Rural Development and Rural Entrepreneurship

The research focuses on analysing the measures taken by both state and central governments for rural development in India. A key aspect of the study is to examine the budget allocations dedicated to rural development initiatives and compare them with other priorities like agriculture. The research aims to compare various entrepreneurship development programs implemented by the governments to foster rural entrepreneurship. By assessing the impact of these programs, the study seeks to identify which initiatives have been more successful in promoting entrepreneurial growth and sustainable economic development in rural areas. This will provide insights into the most effective approaches for supporting rural entrepreneurship.

#### Study on Non-Performing Assets (NPA) of the Banking

**Sector in India:** Non-Performing Assets stands as a prime roadblock and challenge as common-man places all his trust on a bank when he deposits with it, his hard-earned life savings. When such a bank fails to meet its obligations

toward the Common-man, the entire economy loses trust in the banking system. Banks fail to meet their contractual obligations towards depositors due to the default of borrowers, which in turn is due to under-estimating risks. Therefore, minimisation of NPA is a must for increasing economic growth.

#### ESG and Financial Performance of Companies:

At a time when ESG investing is gaining momentum, propelled by institutional investors and regulatory efforts, effectively offering financial and social returns without increasing costs or diminishing returns, theis research investigates the relationship between ESG performance of Indian companies and the financial performance of the companies and their stocks as measured by their systematic risk and risk-adjusted returns. The research is also likely to inform how this linkage compares with that of the rest of the world and the relative strength of the three ESG pillars in driving profitability and stock performance of Indian companies.

#### **Financial Inclusion**

Financial Inclusion (FI) can help in enhancing financial/ economic security of the poor people. Lower income groups across the globe are at a severe disadvantage when it comes to meeting their financial needs. This is a result of several factors like lack of stable and regular incomes, non-availability of financial resources as per their needs, cultural and gender inhibitions. Lack of trust in the existing financial system(s) is also a major factor. The Government of India has initiated and nurtured several FI programs and schemes to provide the marginalized sections with access to formal finance. However, there have been gaps between intended and achieved goals. This research seeks to understand the significance of financial inclusion as an efficient tool for financial empowerment and thereby socio-economic empowerment of the poor people. The research will analyze the various schemes for financial inclusion and assess whether they are achieving the goal of financial empowerment of the poor in agrarian areas. Is financial inclusion limited to just access to formal finance or is there a broader objective of enhancing the financial capabilities of the poor in agrarian areas? The research will try to formulate and suggest meaningful strategies to deepen financial inclusion that will result in financial and economic empowerment in rural agrarian areas.

#### **Financial Inclusion Through Microfinance**

Microfinance Institutions (MFIs) play a crucial role in advancing financial inclusion by providing essential financial services to underserved communities. However, if MFIs are not financially sustainable, they will struggle to meet their social mission of serving those at the bottom of the economic pyramid, potentially leading to their closure.

Given the critical role of MFIs in the broader economy, research on strategies for ensuring their sustainability is essential. Our research focuses on helping MFIs achieve a balance between their social objectives and financial sustainability through effective credit risk management, ensuring they can continue to serve vulnerable populations while remaining viable. 88

#### A Stakeholder Analysis of Sustainable Community-Based Rural Tourism Development

This research aims to delve into the intricate dynamics of rural tourism development by identifying, analyzing, and understanding the perspectives of key stakeholders. Through a case study approach and stakeholder analysis, the study will explore power dynamics, interrelationships, and capacitybuilding needs. Unstructured interviews, personal interviews, and observational studies will be employed to gather data from diverse stakeholders, including rural communities, local government officials, tourism businesses, and nongovernmental organizations. By understanding the varying expectations, concerns, and capacities of these stakeholders, the research will provide valuable insights into the potential for sustainable rural tourism development and identify specific areas where capacity-building initiatives can be targeted to foster effective collaboration and community empowerment.

### **Mathematics & Computer Sciences**

#### **Chemical Graph Theory**

To study the physicochemical, biological, and pharmaceutical properties of chemical compounds, a lot of laboratory equipment is required. Since these experiments are timeconsuming and expensive, an alternative method has been proposed to get rid of these constraints. The proposed method of predicting the required properties is nothing but finding the topological indices and performing QSAR/QSPR analysis. The study of the topological indices helps us understand the physicochemical and biomedical properties of many chemical compounds. This research is mainly focused on predicting the physical, chemical, and biological properties of phytochemicals using topological indices. QSAR (Qualitative Structure-Activity Relationships) and QSPR (Qualitative Structure-Property Relationships) analysis will be carried out to study the physicochemical properties and bioactivity of the chemical structures and molecules using topological indices. This research outcome contributes to the Department of Medicine and Pharmacology. The predicted properties and correlation coefficients might help them in designing new antiviral drugs, composite drugs, and drug delivery systems.

## Fractal Geometry, Fractal Interpolation and Approximation, Fractal Applications

Fractal geometry and fractal analysis have a wide range of applications in complex analysis (for example Julia and Fatou sets), dynamical systems, economics, mathematical finance (for example modelling stock prices through fractal times series), mathematical biology, computational biology (for instance Feigenbaum attractor, Lorenz attractor, Henon map), number theory (for example Fibonacci sequence), stochastics and many more scientific and engineering branches. Fractal interpolation is the generalised spline interpolation technique and also the most advanced interpolation technique which attracts researchers for the approximation of rough functions and interpolating certain data generated by a function whose certain derivatives are irregular in nature. The presence of the scaling factors in the structure of a fractal interpolant provides a large flexibility to its shape. Using fractal interpolation, one can produce not only irregular objects but also smooth curves by choosing the appropriate IFS and its parameters (scaling factors and shape parameters) on suitable compact spaces. The research in fractal applications includes Solutions of BVPs, Graph Directed Fractal Interpolation, Fractal Image Compression, Fractals and Biology, Scattered Data Interpolation, etc.

#### Fluid Flow, Heat, and Mass Transfer

Fluid mechanics is the study of fluid behavior (liquids, gases, blood, and plasmas) at rest and in motion. Fluid mechanics has a wide range of applications in mechanical and chemical engineering, in biological systems, and astrophysics. The transport of heat and mass are fundamental features of fluid flows. As such, thermal-fluid-mass transfer processes are essential to addressing energy problems of conserving energy, enhancing energy efficiency, and the overall energy crises. Research focuses on thermal management and thermal control for industrial applications, from the study of high-performance heat transfer surfaces. It is also extended to fluid boundary layers, which continues to be useful in understanding the characteristics of fluid flow that are pivotal to reducing energy consumption.

## A Commutative Algebraic Approach to Generating Functions

The research explores connections between algebraic tools and the number thirty, particularly focusing on generating functions and trigonometric sums. A novel approach using commutative algebra has been introduced to simplify and generalize established results, revealing intriguing parallels between reciprocity laws and partial fraction identities. The exploration extends to degenerative Bernoulli and Euler numbers, Umbral Calculus, and Hypergeometric Functions, supported by efficient algorithms in Computer Algebra systems. Current investigations concentrate on the geometric connections between partial fractions and reciprocity laws, the establishment of an algebraic Mittag-Leffler Theorem, and algebraic generalizations of Ramanujan sums with applications to deletion correction codes.

## Microlocal Analysis Pseudodifferential Operators, and Hyperbolic Operators.

In this area, we are interested in performing a singularity analysis of hyperbolic operators with singular and oscillatory coefficients. It is well-known that these operators exhibit a loss of regularity. Using microlocal techniques (specifically, space-frequency techniques), we capture this loss of regularity by tracking changes in the underlying symplectic geometry. We are also interested in cases where coefficients degenerate, vanishing at certain points, known as Fuchsian operators. For these problems, we have demonstrated a propagation of singularities.

#### AI-ML and Deep Learning Methods in Medical Diagnostics and State of Art Healthcare with reference to Coronary Artery Disease, Tuberculosis, Cancer

- Recommend the drug and dosage to be prescribed to meet the targeted cholesterol level.
- Study of Patient-Specific Three-Dimensional Left Ventricular Dynamics
- To predict Treatment Outcome and Loss to Follow-up at Scale in Tuberculosis using Machine learning with reference to Karnataka state TB Data.
- Predicting Metastasis in Cancer Patients Using Machine Learning: A Comparative Analysis of Models.

#### AI - Development, Deployment, and Interpretation with High-Performance Computing and Big Data Computing

- Web3-Based Decentralized MLOps: Empowering Transparency, Control, and Collaboration in AI Development
- Evaluating Large Language Models for Structured Data Tasks: Scalability, Efficiency, and ROI in Text-to-SQL Conversion and Beyond
- Enhancing AI Interpretability with Formal Concept Lattices: Local, Global, and Contrastive Explanations for Trustworthy Models

#### Computer Vision and Image Processing with Applications in Health care

- Patient Specific Three-Dimensional Left Ventricular Fluid Dynamic Analysis using Cardiac Ultrasound
- Automatic Segmentation and Learning of the Distribution of White Matter Hyperintensities from 3D Neuro MRI for a Longitudinal Study

## Use of Artificial Intelligence Based Technique for the Retrieval of Atmospheric Motion Winds

Feature tracking algorithms find widespread application in various image processing domains. Meteorological departments, specifically concerned with determining horizontal winds, commonly employ these algorithms to track cloud features or changes in moisture images. This tracking process is often referred to as Atmospheric Motion Vectors (AMVs). AMVs find versatile applications, ranging from enhancing the assimilation of Numerical Weather Prediction (NWP) data for improved forecasting accuracy to facilitating super-resolution techniques for satellite images, thereby elevating the quality of meteorological analysis.

#### **Privacy-Preserving Machine Learning**

The world generated 2.5 exabytes of data per day in 2018. With the widespread adoption of IoT, this number is expected to cross a hundredfold by 2025. All the data collected are sent to the cloud for storage and analysis. The data is nevertheless encrypted on its transmission. However, the machine learning models for data analysis are built on the decrypted data at the cloud servers. Thus, the data is exposed to the ML service providers. This poses a serious hindrance due to the strict privacy laws by countries, the rigorous data policies of companies, and growing privacy concerns among users.

## Infectious Disease Modeling with Reference to Translational Research

- To model within-host and study the disease spread and behaviour dynamics and patterns with reference to diseases such as Dengue, COVID-19, Tuberculosis, and Hansen's Disease
- To model vector-host and study the disease spread and behaviour dynamics and patterns with reference to diseases such as Dengue, COVID-19, Tuberculosis, and Hansen's Disease
- Multiscale modelling studies with reference to diseases such as Dengue, COVID-19, Tuberculosis, and Hansen's Disease

#### Cryptography and Information Security: IoT/Blockchainbased Security Systems

The research explores developing novel proxy reencryption (PRE) schemes with enhanced security and efficiency properties, by advancing the state-of-the-art in secure decentralized data-sharing technologies in cloud environments. Exploring the applications of PRE schemes in practical data-sharing scenarios, such as Healthcare data and finance applications, with secure and privacy-preserving file sharing, identity, encrypted messaging, collaborative data analytics, ensuring end-to-end data confidentiality and access control. Exploration extends to enhance the computation and communication cost of the designed schemes using Lightweight Cryptography.

#### Social Security Data Mining

Social security schemes are the provisions and funding of various benefits by the Government for its citizens or beneficiaries. The major facilities provided by the Government include access to health care, income security, unemployment, work injury and insurance, mother and child care, etc. The research explores beneficiary, payment, policy, fraud, process, dialog, feedback and service-delivery centric analysis using various data mining techniques that includes AI/ML/DL and the latest technology trends.

#### **Computational Graph Theory**

Graph theory is a rich and versatile field of mathematics that explores the properties and applications of graphs, which are structures made up of nodes (or vertices) connected by edges. One intriguing concept within graph theory is graceful labelling, where the vertices of a graph are assigned unique labels such that the absolute differences of the labels at the endpoints of each edge are distinct. Another important area of graph theory is the study of metric dimensions, which involves finding the minimum number of vertices required to uniquely determine all other vertices based on their 90

distances to the selected set. This concept has practical applications in network navigation, robotic path planning, and sensor placement. Additionally, graph theoretical concepts play a crucial role in cryptography and authentication techniques, providing robust methods for securing data, ensuring privacy, and verifying identities through the use of complex graph structures and algorithms. These applications demonstrate the broad utility of graph theory in solving real-world problems across various domains.

#### Society of Actuaries (SoA) Research Projects

## Using Interpretable Machine Learning Methods

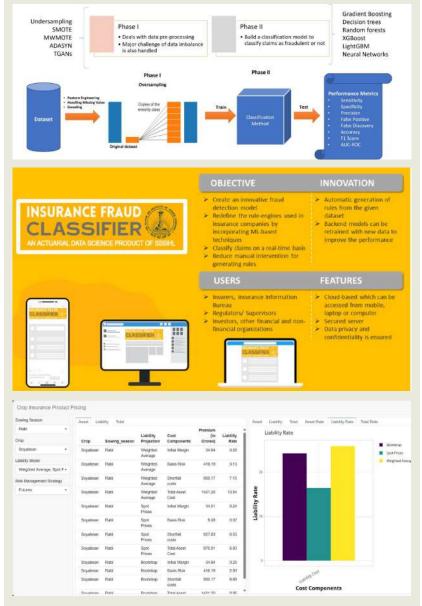
This project endeavors to deliver a comprehensive research paper outlining a framework for interpretable machine learning algorithms tailored for fraud detection in health insurance. Machine learning algorithms excel at constructing intricate models by discerning patterns in data, yet the risk of overfitting to training data necessitates rigorous testing by modellers and users. While certain validation practices for linear models apply to machine learning, the challenge of interpretability remains pronounced.

#### **Crop Insurance Revenue Protection**

This research delves into the design and actuarial pricing of a specialized crop insurance product for farmers, utilizing actuarial data science and derivatives. It includes key features of the crop insurance product such as coverage, target market, and unique selling points. The research also examines the current state of crop insurance risk management and the crop reinsurance industry in the U.S., as well as the use of derivatives to hedge crop revenue protection risks. Considerations for designing the product for the Indian market, including regulatory, market, and cultural aspects will be looked into as part of the project.

#### A Framework to Integrate Artificial Intelligence and Machine Learning for Next-Generation Hybrid Educational System

The main objective of this research is to bridge the gap between integrating AI and ML into the current educational system, facilitating growth in the sector. It aims to find an easily adoptable solution for educators, provide a scalable implementation for institutions, and create a dashboard for administration performance monitoring. The study's outcome will be a generic framework for integrating AI and ML into hybrid education, addressing current challenges.



### **Physics**

#### **Photonics:**

**Novel and Versatile Mode-locked Fiber Laser Sources:** Passively modelocked fiber lasers have been a hot topic of research in the last two decades primarily for two reasons. Firstly, mode-locked fiber lasers find fruitful applications in various fields such as spectroscopy, imaging, sensing, and many more. Secondly, fiber lasers provide a platform for studying various nonlinear phenomena including soliton dynamics. This work focuses on development of novel and versatile mode-locked fiber lasers in the noiselike pulse regime and also the ability to manipulate their properties, keeping in view specific applications. The aim is to explore the complex physics of formation, interaction and evolution of these pulses and use this knowledge to indigenously develop novel and versatile NLP sources that could be tailor-made for different applications like biosensing, OCT, high resolution spectroscopy and optical communication systems. Lab-on-a-chip Based Biomedical Sensors: Lab-on-achip (LOC) devices are socially relevant in multiple ways. Optofluidics is a micro-fabrication-based technology that explores novel functions and related physics through the synergy between light and fluids at the microscale. Optofluidics lab-on-a-chip technology holds great promise for various fields including bio-photonics, medicine, and micromachining applications. One of the main advantages of this field in photonics is the replacement of bulk optics with integrated optics on a chip, which consequently makes the device both time and cost-effective. There are several microfabrication technologies adopted to realize optofluidic devices. Lithographic techniques are extensively used for mass production, but the cost of the reagents involved in the fabrication of the master mold is too high and this limits its potential for design optimization. However, maskless direct writing techniques like femtosecond laser micromachining (FLM) and CO2 laser cutting and engraving technology have an advantage due to their lower fabrication costs and shorter turn-around times (TAT) for chip fabrication. FLM in particular offers added advantages like the capability to produce both optical waveguides and microfluidic channels, the capability to produce 3-dimensional structures, the possibility to combine different fabrication techniques, and the rapidprototyping capability. We have recently demonstrated FLM for fabricating buried microchannels in fused silica in a much safer way by hot potassium hydroxide (KOH) method when compared to handling highly corrosive hydrofluoric acid. We have also demonstrated the integration of waveguides and microchannels fabricated using FLM in fused silica. Finally, we have demonstrated a highly sensitive novel bimodal interferometric technique in these fused silica chips.

**Optical Coherence Tomography:** We have developed a maneuverable, low-cost, line-field, CMOS camera-based, spectral domain Optical Coherence Tomography (OCT), and demonstrated its use for sensing the nanometer scale vibrations of the human tympanum, in-vivo. A novel Bessel function-based time-averaged sampling technique has been developed that can aid in improving the SNR of our low-cost OCT. The potential application of this device for OCT Angiography is also being explored.

**Nonlinear Optical Material Characterization:** A semiautomated time-resolved third-order nonlinear dynamics characterization facility, utilizing degenerate four-wave mixing, with a 300 femtosecond Ytterbium-doped fiber laser has been set up. This can be used to characterize the response of novel materials that can be used for specific purposes. A fully automated femtosecond Z-scan facility has also been set up to augment the DFWM method.

**SERS and Biosensing Applications:** The Department of Physics has been collaborating actively and undertaking interdisciplinary research work on Scientific and societal importance. With the support from our earlier FIST grant (2014), we set up a Raman microscope facility. This has enabled us to undertake Surface Enhanced Raman spectroscopy application for molecular detection for different chemical & clinical applications. We were successful in fabricating and

sensing using novel SERS substrate for detecting biomolecules like Catechol, Dopamine, etc., using paper microfluidic platforms. We could phenomenologically explain the origin of these Raman modes using first principle calculations computationally.

#### **Nuclear Spectroscopy and Medical Imaging:**

Nuclear structure and Nuclear Spectroscopy (electrongamma spectroscopy): The nuclear physics group has rich experience in both theoretical and experimental lowenergy spectroscopy. The group carries out studies on level structures of odd-mass and doubly-odd nuclei. Experimental work involving gamma-gamma coincidence and conversion electron spectra is regularly carried out. The nuclear data on level energies, gamma energies, and intensities for some of the nuclei differ considerably even for the intense gamma transitions and widely differ from the adopted data in nuclear data sheets. The internal conversion spectrum needs to be studied extensively. The assignment of Multipolarities for some of the transitions needs to be relooked. Therefore, an extensive experimental investigation of the gamma and conversion electron spectra to provide precision spectroscopic information has been undertaken. This data would be of great use for calibrating electron detectors and electron transporters.

Design and Optimization of Collimators for Micro-PET and Medical Imaging Simulations: Medical imaging by non-collinear gamma-ray cascade decay may be superior to the conventional PET and SPECT. A small animal PET composed of GSO detectors can be adapted to the new modality by retrofitting with a SPECT-like collimator and software modifications. This is an international collaboration work by Prof. Rangachary (University of Saskatchewan, Saskatoon, Canada), Prof. Tomonori Fukuchi (RIKEN Center for Biosystems Dynamics Research, Kobe, Japan), and Leonid Nkuba (University of DSM, Tanzania). The aim is to develop a GATE-based collimated PET model and a custom image reconstruction algorithm.

#### **Development of Intraoperative Multimodal Gamma**

**Camera:** The current intraoperative imaging technologies suffer from limitations in their form factor as they are quite bulky to move around in the operation theater. While some small form factor intraoperative devices exist, they pose challenges due to impaired technical performances (e.g., spatial resolution below 2mm), hindering their efficiency which subsequently poses a risk to patient safety. An ideal solution to the current problem is a compact device (handheld) with high-performance, real-time multimodal imaging (spatial resolution < 2mm, frame rate > 25 frames/second) and advanced image fusion algorithms designed to improve intraoperative visualization and decision-making.

The research focuses on developing a compact, hand-held device equipped with real-time imaging capabilities and novel image fusion algorithms. This device will integrate:

Detector: CZT detectors offer superior energy resolution

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allowing to distinguish closely spaced energy peaks and sensitivity compared to traditional scintillators. The direct conversion process in the CZT results in high energy resolution, more than 5% FWHM at 662 keV compared to the typical 7% or higher seen in the scintillators. The CZT functions effectively at room temperature, simplifying the system design, and reducing the power consumption thereby enabling portable detection in intraoperative scenarios.

**Fluorescence Imaging:** Complementary NIR fluorescence imaging at 850nm with contrast agents such as ICG will provide high-resolution visualization of specific anatomical structures and molecular targets that act as an aid to the Gamma modality after the navigation.

**Optical Imaging:** Standard optical imaging will provide anatomical information and aid in the correlation of gamma and fluorescence images in real-time.

**Nuclear Reaction Cross-section Measurements:** The neutron-induced reaction cross-section data is important in many areas of nuclear sciences including nuclear medicine, nuclear forensics, nuclear reactors, accelerators, waste transmutations, defense applications, nuclear astrophysics, nuclear structure, and fundamental research. Our researchers are collaborating with scientists from BARC under a funded project to undertake the measurement of neutron cross-sections for specific structural materials that are commonly used in current-generation nuclear reactors.

#### A Collaborative & Exploratory Research Project on the Implementation of Deep Learning Techniques for Biomedical/ Radiological Imaging with SSSIHMS & SSSIHL

A joint undertaking between the Departments of Mathematics & Computer Science (DMACS) and the Department of Urology, SSSIHMS, to detect Extra-pulmonary Tuberculosis in CTbased radiological imaging. The Clinical research team has been actively developing a Deep learning-based tool to detect GUTB, which has a unique issue of non-localised growth zones /disease progression, unlike other renal disorders. A new DLbased GUTB detection tool and a user interface module have been developed so clinical users can easily use the DL model for detection. Further data collection and validation are in progress to complete the project.

#### **Computational Biophysics**

Single-molecule detection and sequencing technologies have great importance in understanding of biological processes and have immense potential in various fields including medical diagnostics and personalized medicine. Nanopore-based sequencing has emerged as a promising approach in analyzing the individual molecules directly and offers advantages such as high throughput, rapid analysis, and portability. Biological nanopores like Cytolysin-A, PA63,  $\alpha$ -hemolysin etc. offer precise control over pore dimensions and chemical properties. Molecular dynamics (MD) simulations have emerged as indispensable tools for elucidating the fundamental mechanisms underlying nanopore-based single molecule detection and sequencing. In this project, we propose the single molecule detection and DNA/protein sequencing by translocation through protein pores like Cytolysin-A, PA63,  $\alpha$ -hemolysin, etc., as well as the synthetic nanopores to elucidate the effect of nanopore properties such as size, charge, and surface chemistry etc using all-atom MD simulations. It allows understanding the microscopic picture of biomolecule translocation, which helps interpret/validate experimental data and predict the performance of nanopore-based sensing platforms. The outcomes of the study have potential implications for biological research and medical diagnostics.

#### **Functional Materials Science:**

Nanoheterostructures and Soft materials (hydrogels) for Gas Sensing applications: Metal oxide semiconductor ZnO thin films are modified by incorporating conducting carbonblack (super  $\mathrm{C}_{\scriptscriptstyle\!\mathrm{GS}}$  ) through the sol-gel process to derive ZnO/ C<sub>65</sub> heterostructures. ZnO/C<sub>65</sub> heterostructure films are tested for different volatile organic compounds (VOCs) gas-sensing applications at room temperature. ZnO/C<sub>65</sub> films which behaved like n-type semiconductors at low  $C_{65}$  turned out to be p-type like at a high fraction of  $C_{65}$  content. ZnO/ $C_{65}$  samples have shown enhanced sensitivity, ultra-fast response, and fast recovery times of 5 s and 11 s, respectively at room temperature (28 oC). Moreover, Laponite, a synthetic nanosilicate clay, and agar, a natural polysaccharide, both imbibe large amounts of water and form hydrogels. Various physical and chemical stimuli elicit the hydrogel response, which has been applied in designing diverse sensors and biomedical systems. We exploit the change in hydrogel's ionic conductivity due to volatile organic compounds (e.g., ethanol) interaction with the surfaces of Laponite-Agar hydrogel films. Laponite-Agar gel films have exhibited high selectivity towards ethanol sensing, fast response (4 s) and recovery time (15 s), and a limit of detection of 6 ppm at room temperature.

#### **Glasses/ Glass-ceramics for Biomedical Applications:**

Research is focused on developing materials for health and the environment. In this direction, high-density lead-free bismuth borate glasses in binary and ternary bismuth borate glasses have been investigated for radiation shielding applications. High-density bismuth borate glasses possess promising shielding characteristics comparable to the metallic Pb and are much superior to commercial lead shielding glasses. Moreover, metallic nanocrystals have been embedded in a glass matrix using an ion-exchange technique and controlled heat treatment process for sensing and biomedical applications. Bioactive and biodegradable borate glasses have been investigated by modifying the glasses with TiO<sub>2</sub> and Ag ions for enhanced therapeutic effects.

#### Development of Lead-free Ceramic Materials with Enhanced Piezoelectric & Ferroelectric response:

Lead-based ceramics, such as Lead zirconate titanate (PZT), have long been the standard for piezoelectric applications due to their excellent electromechanical properties. However, their use poses risks to health and the environment which has been banned by many nations recently. Researchers have been exploring various alternative materials to replace lead-based ceramics while maintaining or even improving their piezoelectric performance. Some of them include Barium titanate (BaTiO<sub>2</sub>), Bismuth-based ceramics (BiFeO<sub>2</sub>), Potassium Sodium Niobate (KNN), etc. Barium Titanate has been a front-runner in this material discovery. It is a wellknown ferroelectric material with potential for piezoelectric applications. Researchers have explored doping BaTiO<sub>3</sub> with various elements to enhance its piezoelectric properties. For example, doping with rare-earth elements or transition metals can modify the crystal structure and improve piezoelectric performance. Our research group has established a novel BCZT-based stoichiometry (Calcium & Zirconium co-doped in Barium Titanate) ceramics with enhanced piezoelectric & ferroelectric response.

## Solid-State Electrolytes for Advanced Energy Storage Systems: Development and Optimization:

The goal of this research project is to investigate and advance the most recent developments in the field of electro-energy storage. The focus of this research project is energy storage in general, specifically in relation to lithium-ion (Li-ion) and sodium-ion (Na-ion) batteries. The project assesses the energy storage capabilities of new materials for Li/Na-ion batteries as well as designing, fabricating, and characterizing them. We aim to reduce production costs and have as little of an impact on the environment as possible, all the while improving energy density, cycling stability, and efficiency through innovative techniques and experimental methods. For the past few years, we have been focusing on creating innovative solid electrolytes. Early investigations into the synthesis and testing of solid electrolytes have yielded important information about their viability and possible benefits over liquid electrolytes. The choice of particular materials and fabrication methods has been influenced by these investigations. LiTa<sub>2</sub>PO<sub>8</sub> (LTPO) solid electrolyte, which we just fabricated and studied, has extremely promising room temperature conductivity.

#### Nanomaterials for Remediation of Fluoride and Heavy

**Metal Ions from Water:** This research aims to develop nanomaterial-based technologies to remediate hazardous contaminants such as fluoride and heavy metal ions (Pb, Hg, As, Cr) from water. Contaminants in water, including fluoride, arsenic, and various heavy metals, pose severe health risks. Traditional water purification methods are limited, prompting the exploration of nanomaterials, which offer advantages like high surface area, tunable pore size, and customizable surface chemistry. The study has resulted in the fabrication of novel 1D and 2D metal oxide-based nanomaterials, including bimetal ion-functionalized titanates, which are being reported for the first time.

The research focuses on optimizing these materials for simultaneous adsorption of fluoride and multiple toxic heavy metals. The materials are being tested in both batch and real-time scenarios, using real water samples. This approach could pave the way for the development of efficient and costeffective water filters based on nanotechnology. Additionally, the research addresses fluoride toxicity from tea, investigating factors that influence fluoride release during brewing and testing nanomaterials for their ability to remove fluoride from tea infusions—an area that lacks previous research.

The versatile, multifunctional nanomaterials developed in this study can adsorb multiple contaminants efficiently in a short time, offering a promising solution for addressing water contamination and developing sustainable water purification technologies.

Magnetic Nanocomposites for Health and Environment: Our research focuses on developing magnetic polymer nanocomposites with excellent electrical properties, aimed at electromagnetic interference shielding to protect the environment and human health from electromagnetic pollution. We have synthesized tin-doped magnetite (Sn<sub>v</sub>Fe<sub>3</sub>-xO<sub>4</sub>) nanoparticles, through a systematic substitution of  $Fe^{2+}$  with  $Sn^{2+}$  cations in  $Fe_{3}O_{4}$ . Using a facile technique of alternate stirring and ultrasonication, we fabricated electroactive-superparamagnetic PVDF-Sn<sub>0.2</sub>Fe<sub>2.8</sub>O<sub>4</sub> magnetic nanocomposite films. Furthermore, by incorporating conductive materials into the PVDF-Sn<sub>02</sub>Fe<sub>28</sub>O<sub>4</sub> nanocomposites, we have enhanced their suitability for EMI shielding applications. These materials exhibit good shielding effectiveness of approximately 99.8%, meeting the shielding effectiveness values mandated by commercial standards. Additionally, we have undertaken the synthesis and characterization of composite systems comprising tin oxide and iron oxide to promote energy sustainability. These materials exhibit moderate magnetism and high dielectric constants (colossal permittivity materials), making them suitable for applications in energy storage and microwave devices.

# **Funded Research Projects**

SSSIHL continues to pursue needs-based research that will help alleviate problems affecting the poorer sections of society. During the academic year 2023-24, the total value of ongoing projects at the University was ₹3.03 Crores.

### **Biosciences**

Understanding the Mechanisms Involved in the Emergence of Heteroresistance among Enterobacteriaceae Indian Council of Medical Research (ICMR) PI: Dr. Bulagonda Eswarappa Pradeep **₹50 Lakhs** 

Exploration of Simultaneous Fluorescence and Phase Contrast Optical Imaging Methods Using Novel Fourier Optical Techniques for System Biology Applications **Society for Assistance International, USA** PI: Dr. S Venketesh Co-PI: Dr. V Sai Muthukumar **Z.43 Lakhs** 

## Chemistry

IKSHANA: Low-Cost, Mobile-Plasmonic Diagnostic Device for Integrated Evaluation of Diabetic Retinopathy, Glaucoma and Retinal Health **DBT-BME** 

PI: Dr. Naga Sai Visweswar Co-PI: Dr. P Sujith Kumar and Dr. Srikanth Khanna **₹17.06 Lakhs** 

## Food & Nutritional Sciences

Formulation and Evaluation of Ready-to-use Supplementary Foods (RUSFs) in the Management of Moderate Acute Malnutrition (MAM) using Indigenous Food Crops and Novel Approaches **CSIR-ASPIRE** PI: Prof. N. Srividya **20.8 Lakhs** 

Value-added RTS Non-carbonated and Carbonated Ayurvedic Tomato Beverage Tomato Grant Challenge Innovation Cell, AICTE, Ministry of Education, & Ministry of Consumer Affairs, Government of India PI: Prof. N. Srividya Co-PI: Ms. Mounika Pandey ₹3.3 Lakhs

## **Humanities & Social Sciences**

#### **Economics**

A Structural Model of the Current Account of India's Balance of Payments Under the New Economic Policy Regime **Indian Council of Social Science Research (ICSSR) -IMPRESS SCHEME** PI: Dr. G Raghavender Raju **₹3.15 Lakhs** 

## **Mathematics & Computer Sciences**

Time-Optimal Control Problems and Bifurcation Analysis of Coupled Non-Linear Dynamical Systems with Application to Pest Eradication

 National Board of Higher Mathematics (NBHM)

 PI: Dr. Krishna Kiran Vamsi Dasu

 ₹15 Lakhs

Role and Interactions of Biological Markers in Causation of Type 1/Type 2 Lepra Reactions: A In Vivo Mathematical Modelling with Clinical Validation **The Council of Scientific & Industrial Research (CSIR)** PI: Dr. Krishna Kiran Vamsi Dasu **₹15.6 Lakhs** 

A Commutative Algebraic Approach to Generating Functions, **SERB** PI: Dr. N. Uday Kiran

₹**6.6 Lakhs** 

DeepDroughtUAV: Deep Learning Based Estimation of Drought Area in the Anantapur Cluster Using UAV Surveillance Andhra Pradesh State Council of Higher Education (APSCHE) Co-PI: Dr. Balasubramanian **710 Lakhs** 

Using Interpretable Machine Language Methods: An Application to Health Insurance Fraud Detection **SOA Research Project** PI: Prof. Pallav Kumar Baruah **₹8.4 Lakhs** 

Insurance Fraud Classifier for Health Insurance CAS Individual Grants Competition 2022 Casualty Actuarial Society, USA PI: Prof. Pallav Kumar Baruah Co-PI: Sri Sathya Sai Baba Mudigonda **TI4 Lakhs** 

## **Physics**

Neutron Induced Reaction Cross-Section Measurements on Structural Materials Using Direct and Surrogate Technique **DAE-BRNS** PI: Prof. R. Gowrishankar Co-PI: Dr. K. Vijay Sai **731.19 Lakhs** 

Development of Multiplexed Fiber Laser Based Dual Frequency Combs for Sensing and Spectroscopic Applications **SERB-SURE** PI: Prof. R. Gowrishankar **718.86 Lakhs** 

Dispersion Managed Subsea Simulation and Onep Optical Algorithm Testing Infinera Corporation PI: Prof. R. Gowrishankar ₹22.89 Lakhs

Closed Loop Project Optical Testing and Research Cisco Systems Inc., USA PI: Prof. R. Gowrishankar ₹12.79 Lakhs

State-of-the-art, Low Cost, Dental Implant System (Development Research Grant\* in Collaboration with Uppsala University, Sweden) **Swedish Medical Council** PI: Prof. Deepa Seetharaman Co-PI: Dr. G. Paramesh

₹**64.38 Lakhs** 

\*The grant money will be administered by Uppsala University, Sweden



# **Research Publications in Peer-Reviewed** Journals

### **Biosciences**

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- Natarajan Arumugam, Datta Darshan V. M, Vishal Venketesh, Sai Sanwid Pradhan, Anuj Garg, Venkatesh Sivaramakrishnan, Subbarao Kanchi and Sakkarapalayam M. Mahalingam (2024). Synthesis, Computational Docking and Molecular Dynamics Studies of New Class of Spiroquinoxalinopyrrolidine Embedded Chromanone Hybrids as Potent Anti-Cholinesterase Agents. *RSC Advances*, *14(26)*, 18815-18831. DOI: <u>https://doi. org/10.1039/d4ra02432j</u>
- Ganesan, S. T., Elangovan, N., Sowrirajan, S., Chandrasekar, S., Arumugam, N., Almansour, A. I., Mahalingam, S. M., Datta Darshan, V. M., Subba Rao, Kanchi, & Venketesh Sivaramakrishnan. (2024). Synthesis, Topology, Molecular Docking and Dynamics Studies of o-Phenylenediamine Derivative. *Journal of Biomolecular Structure and Dynamics*, *42*(8), 4072-4086. DOI: <u>https://doi.org/10.1080</u> /07391102.2024.2317981
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- Siva Sankari, G., James, R., Payva, F., Venketesh Sivaramakrishnan, Kumar, T. V., Kanchi, S., & Santhy, K. S. (2024). Computational Analysis of Sodium-Dependent Phosphate Transporter SLC2OA1/PiT1 Gene Identifies Missense Variations C573F, and T58A as High-Risk Deleterious SNPs. *Journal of Biomolecular Structure and Dynamics*, *42*(8), 4072–4086. DOI: <u>https://doi.org/10. 1080/07391102.2023.2218939</u>
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- Datta Darshan, V. M., Sivaramakrishnan, V., & Kumar, K. A. (2023). Structural Systems Biology Approach Delineates the Functional Implications of SNPs in Exon Junction Complex Interaction Network. *Journal of Biomolecular Structure and Dynamics*, *41*(21), 11969–11986. DOI: https://doi.org/10.1080/07391102.2022.2164355
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- Pradhan, S. S., Kanikaram, S. P., Datta Darshan, V. M., Pargaonkar, A., Dandamudi, R. B., & Venketesh Sivaramakrishnan. (2023). Metabolic Deregulation Associated with Aging Modulates Protein Aggregation in the Yeast Model of Huntington's Disease. *Journal of Biomolecular Structure and Dynamics*, 1-18. DOI: https://doi.org/10.1080/07391102.2023.2257322
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- Book Chapter: Sai Swaroop R., Sai Sanwid Pradhan, Ashwin Ashok Naik, & Venketesh Sivaramakrishnan.
   (2024). Protocol for Integrated Multi-omics Analysis and Validation by Yeast Model for Amyotrophic Lateral Sclerosis. In Prof. Dr. Swapan Ray (Ed.), *Neuroprotection: Methods and Protocols.* Springer Publications. ISBN: 978-1-0716-3662-6.
- Book Chapter: Burri, R. R., Skov, R., Eswarappa Pradeep, B., & Sudbrak, R. (2023). The Battle Against Antimicrobial Resistance. In Nitya Mohan Khemka & Srinath Reddy (Eds.), Accelerating Global Health Pathways to Health Equity for the G20 (28-38). ISBN: 978-81-963864-8-1.
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# **Conference Presentations/Proceedings**

## Chemistry

- Undavalli Venkata Gopi, Kumar Sai Smaran. Defect Engineering Pathways Towards Unlocking the Potential of Perovskites in Supercapatteries, *18th International Symposium of Polymer Electrolytes (ISPE-18),* American Chemical Society (ACS) Malaysian Chapter, Coorganized by NanoMalaysia Berhad (NMB) and Lembaga Pembangunan Langkawi (LADA), Langkawi, Malaysia (June 23-28, 2024).
- B. Praphulla Chandra, Durga Prasad Patnana, and Prashanth Tripathi. Determination of Airborne Microplastics Using LC-MS/MS, *EGU General Assembly 2024, EGU24-2744*, Copernicus Meetings, Vienna, Austria (April 14-19, 2024).
- Ashish Chettri, Siba Prasad Ghosh, and A. Sunil. Nanosponges for Waste Water Treatment, *International Conference on Advances in Chemical and Applied Sciences for Sustainable Development (ACASSD-2024)*, JECRC University, Jaipur, Rajasthan (March 29-30, 2024).
- Sai Athmeeya G Shet, Jan-Michael Y Carrillo, S. S. R. Kumar Challa, V. N. Ravi Kishore Vutukuri. Design of Safer Novel Polymer Nanocomposites Involving Ceria Nanoparticles and Non-PVC Polymers for Biomedical Applications: A Molecular Dynamics Simulation Study, *ACS Spring Meeting - 2024*, American Chemical Society (ACS), Hybrid Mode, New Orleans, USA (March 17-21, 2024).
- Sai Athmeeya G Shet, V. V. N. Ravi Kishore, Jan-Michael Y Carrillo, S. S. R. Kumar Challa. Exploring PVC-Plasticizer Interactions: Insights from Atomistic Molecular Dynamics Simulations and PMF Analysis, *International Conference on JNCASR - CECAM Conference MD@60*, JNCASR, Bangalore (February 26 - March 1, 2024).
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- Uppada Manikanta, Nishant Kumar Kolli, Santanu Roy. Environmental Friendly Synthesis of Silver Nanoparticles from Portulaca Grandiflora Flower Petals for Potential Antibacterial Activity, *Third International Conference on Environmental Research: Issues, Challenges for Sustainable Development and Livelihood Security,* Eurasian Academy of Environmental Sciences, Association for Agricultural Technology in Southeast Asia, Sadguru Gadage Maharaj College, Centre for Innovation in Science and Social Action, Sub-Regional Science Centre - Karwar, Karnataka Forest Department, Karwar, Karnataka (December 01-02, 2023).



## Education

- P. Padmambika and P. Lavanya. The Role of Interdisciplinary Research in Addressing Complex Global Challenges and Fostering Innovation, *National Webinar* on *Research Methodology*, Government Degree College Timarni, MP (May 31, 2024).
- B. Sai Soujanya Kumari and P. Lavanya. Exploring Life Skill Patterns among Secondary School Students: A Comprehensive Survey, *9th International Conference on Life Skill Education (ICLSE 2024)*, Thiruvananthapuram (January 04-06, 2024).

## **Food & Nutritional Sciences**

- Amrita Shaw, Sai Muthukumar V, and Jhinuk Gupta. Detection of Re-used Cooking Oil through Micro-Raman Spectroscopy, **7th International Conference on Food and Nutrition**, Malaysia (Hybrid Mode) (June 29-30, 2024).
- Shreya P. Sarathy, Tharani Lakshmi Tharuni, Amrita Shaw, and Jhinuk Gupta. Mislabeling in Indian Health Food Market: Market Survey and Analytical Testing, *7th International Conference on Food and Nutrition*, Malaysia (Hybrid Mode) (June 29-30, 2024).
- Sai Sruthi Shree K. K. and N. Srividya. Nutritional Evaluation of Bioprocess Based Fortified Indian Traditional Pigmented Rice Varieties to Address Iron Deficiency Anemia, *FortiSF2024 - a Workshop for FRK Manufactures & Blenders and a Symposium on Technological Advancements in Staple Food Fortification*, The Innovation Hub on Rice Fortification (IHRF), Agricultural and Food Engineering Department, IIT Kharagpur (February 22-23, 2024).
- N. Srividya and Sai Sruthi Shree K. K. Poshak+ Double Fortified Red Rice High-Protein Fudge/Burfi, FortiSF2024
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- Beesetti Lohita and M. Srijaya. Blossoming from Earth: Pioneering Plant-Based Innovation in Food, Nutrition, and Health - A Review, *6th International Conference on Food and Nutrition*, Canada (Hybrid Mode) (October 25-26, 2023).
- Mounika Pandey, Manogna Pathri, and N. Srividya. Association of Dietary Insulin Index and Insulin Load on Diabetes, Obesity, and Cardiometabolic Health: A Scoping Review, *6th International Conference on Food and Nutrition*, Universal Society of Food and Nutrition (USFN) (October 25-26, 2023).
- Sai Tirumala Vasireddy and Sumana Araveti. A Study on Commonly Consumed Breakfast Foods (Ready to Use (RTU) / Ready to Cook (RTC) Pre-Mixes, Breakfast Cereals

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 Varshitha Vadde and Sumana Araveti. A Study on Most Commonly Consumed Snacks and Its Nutrient Contribution to Our Healthy Lifestyle, *6th International Conference on Food and Nutrition*, Universal Society of Food and Nutrition (USFN) (October 25-26, 2023).

## **Humanities & Social Sciences**

#### **Economics**

- Geetha Bala, M. R. Digital Banking and Financial Inclusion: Bridging the Gap for Financial Empowerment of Women, *National Seminar on Digital Payment Systems for Cashless Economy: Trends, Issues, and Prospects,* Indian Council of Social Science Research (ICSSR), Sri Krishnadevaraya University, Anantapur (March 27-28, 2024).
- Geetha Bala, M. R. Impact of Skill Development Programs on Financial Empowerment of Women in Andhra Pradesh, *Eighth International Conference on Economic Growth and Sustainable Development: Emerging Trends*, SDM Institute for Management Development, Mysore (November 29-30, 2023).

#### **Political Science**

- A. Sujana. Indian Constitutionalism: A Comparative Analysis of the Writings of Granville Austin and M. V. Pylee, *Two-Day National Seminar on Contextualising Constitution of India: Past, Present, and Future (ICSSR* 2023), Department of Political Science, Central University of Andhra Pradesh (November 15-16, 2023).
- A. Sujana. Suo Moto Cognizance: Issues and Challenges, A Good Governance Perspective, *International Conference on Law and Social Transformation (ICLS)*, Alliance University, School of Law, Bangalore (September 9, 2023).

### Languages & Literature

#### English

- B Sai Vaishnavi and Maitali Khanna. Unveiling Narrativity Dissembled in Mahapatra's "Summer" and "Dawn at Puri": A Barthesian Analysis, *The 15th Newcastle and Northumbria Postgraduate Conference in Language and Linguistics,* Northumbria University, London (Hybrid Mode), (April 11, 2024).
- Saipriya Babu and N. Vani Sri. A Jungian Reflection on the Tapestry of Panchaali's Life in Divakaruni's The Palace

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- Pem Doma Sherpa and Vijayalekshmi R. Eco-nostalgia, Memory and Affect in the Poetry of Mamang Dai, *Two-Day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective* organised by Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai, (March 28-29, 2024).
- Sai Vilakshana Thapa and Vijayalekshmi R. The Role of Home Language in Immigrant Households: A Study Based on "The Paper Menagerie" and "Mother Tongue", *Two-Day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective* organised by Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai, (March 28-29, 2024).
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- Sattyasri Gururaghavendran and Sai Archana M. Use of Digital Tools in Teaching English: Impact on Learners across Socio-economic, Multilingual, and Cognitive Levels in Schools, *Two-Day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective* organised by Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai, (March 28-29, 2024).
- V. Prashanti and Aruna Kumar Behera. Analysing Speech in Jane Austen's Pride and Prejudice Based on Gender, *Two-Day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective*, Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai (March 28-29, 2024).
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Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai (March 28-29, 2024).

- Meghana Srinivas Mandalappu and Maitali Khanna. Navigating the Mental Spaces and Emotional Labyrinths in the Selected Songs from Taylor Swift's Folklore, *Two-Day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective*, Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai (March 28-29, 2024).
- Ardra K. B. and Maitali Khanna. Cognitive Growth with Sudha Murty: Employing Piaget's Theory of Cognitive Development to Unravel Cognitive Cues in Sudha Murty's Selected Short Stories, *Two-Day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective,* Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai (March 28-29, 2024).
- Kavyashree Shrestha and Maitali Khanna. The Girl in the Golden Armour: A Critique of 'Subversion of Power' in Namina Forna's The Gilded Ones, *Two-Day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective,* Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai (March 28-29, 2024).
- Yadha Lama and Sowmya Srinivasan. "I Seek a Place That Can Never Be Destroyed": Decoding the Unknown Through Didactic Literature, *Two-Day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective,* Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai (March 28-29, 2024).
- Sanya Ahuja and Vijayalekshmi R. The Changing Patterns in the Representation of Women in Pakistani New Media, *Two-Day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective,* Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai (March 28-29, 2024).
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- V. Sri Harshita and Sowmya Srinivasan. Disappearing Rivers

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- Jagriti Sharma and Rani P. L. Innovation in Interviewing: The Case of Celebrity Interviews, *Two-Day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective,* Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai (March 28-29, 2024).
- Kashish Moktan and Aarthi R. M. Childhood Trauma and Nostalgia: A Thematic Exploration of Sufjan Stevens' Selected Songs, *Two-Day International Conference on Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective*, Department of English and Foreign Languages, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai (March 28-29, 2024).
- Jagriti Sharma and Rani PL. Gaadi Bula Rahi Hai: Trains as a Site for Peripetia in Bollywood, *Melange 2024: Safarnama-Narrativizing Railways as a Cultural Text,* Christ University, Bengaluru (March 18, 2024).
- Meghana Mandalappu and Rani PL. Tracking Tales: A Worldling Journey Through Theroux's 'The Great Railway Bazaar' and 'Ghost Train to the Eastern Star' on the Indian Terrain, *Melange 2024: Safarnama-Narrativizing Railways as a Cultural Text,* Christ University, Bengaluru (March 18, 2024).
- B. Sai Vaishnavi and Maitali Khanna. Foregrounding Narrativity in Jayanta Mahapatra's "Summer" and "Dawn at Puri" Using Abbott Porter's Narrative Theory, *Poeming the World: Jayanta Mahapatra's Contribution to Indian English Poetry* organised by University of Allahabad, Prayagraj, (March 12-13, 2024).
- S. Lakshmi Menon. Stages of the Spiritual 'I' Consciousness in Wordsworth's "Tintern Abbey" and Tagore's "Gitanjali": An Indic Gaze at Selected English Poems in the Anthropocene, through the Lens of Neo-Vedantic Hermeneutics and Indian Aesthetics, *1st South Asian Exchanges International Conference on Indian Arts and Literature* organised by Journal of South Asian Exchanges, India, (March 9-10, 2024).
- Sai Archana M and Rani P. L. Developing an Operational Model of Communicative Competence for Employees in Communication-Intensive Sectors, *Two-Day International Conference on Language and Literature*

*titled "Imprints, Initiatives, and Insights: Redefining Gen Z English Language Competencies and Literary Perspectives"* organised by St. Joseph's College & Holy Cross College, Tiruchirapalli in collaboration with ELTAI Trichy, (February 27-28, 2024).

- Yadha Lama and Sai Archana M. Developing an Integrated Vocabulary Teaching Toolkit for Enhancing the LSRW Skills Among Gen Z Learners, *Two-Day International Conference on Language and Literature titled "Imprints, Initiatives, and Insights: Redefining Gen Z English Language Competencies and Literary Perspectives"* organised by St. Joseph's College & Holy Cross College, Tiruchirapalli in collaboration with ELTAI Trichy, (February 27-28, 2024).
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- Sai Priyadarshini S and Vijayalekshmi R. Translation of Metaphors, the Language of Movies: Images and Affect in Kannathil Muthamittal, *International Conference on Translation and Multiculturalism* organised by Department of English, V.S.S.D. College, Kanpur, and ELTAI, (Hybrid Mode) (February 20-22, 2024).
- Sattyasri Gururaghavendran and Vijayalekshmi R. Sita Devi to Lady Sita: A Tradition in Translation/Transition, *International Conference on Translation and Multiculturalism* organised by Department of English, V.S.S.D. College, Kanpur, and ELTAI, (Hybrid Mode) (February 20-22, 2024).
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# **Special Annual Events**

The annual special events align with one or more of the five dimensions of Sri Sathya Sai Values-Based Integral Education: spiritual, cultural, intellectual, physical, and service. These events are designed to nurture and reveal the inherent values and qualities within both students and teachers. Participation is encouraged based on each student's unique skills and talents."

#### Embodiments of Love!

If education is not used for the welfare of society, it is no education at all. Man can be called truly educated only when his education benefits people at large and he becomes recipient of their love. It is not enough if one merely acquires bookish knowledge, one should cultivate all virtues and attain supreme wisdom. True education is that which bestows on man the wealth of morality, spirituality and character. The purpose of education is not merely to sustain the body; it should broaden the mind and make the human being an ideal and a virtuous one.

#### Bhagawan Sri Sathya Sai Baba

Revered Founder Chancellor, SSSIHL Benedictory Address, SSSIHL Annual Convocation, 22 November 2001

## Annual Sports & Cultural Meet Prasanthi Nilayam, January 11-15, 2024

Sri Sathya Sai Educational Institutions held the main event of the Annual Sports & Cultural Meet on Thursday, 11 January 2024 at the Sri Sathya Sai Hill View Stadium, Prasanthi Nilayam, Andhra Pradesh, India.

The Sri Sathya Sai Educational Institutions include Sri Sathya Sai Primary and Higher Secondary School, Smt. Eswaramma High School, Sri Sathya Sai Institute of Higher Medical Sciences College of Nursing and Allied Health Sciences, and all four campuses of Sri Sathya Sai Institute of Higher Learning (Deemed-to-be University).

The gala event is a culmination of various sports, cultural, and fine arts competitions held at all the above campuses/ Institutions throughout the academic year. It showcases an array of physical and cultural presentations by over 3000 students of the institutions spread across two sessions, morning and evening. Preparations, which began a month in advance, involved hundreds of practice hours by all students and teachers at each institution.

### January 11, 2024, Sri Sathya Sai Hill View Stadium, Prasanthi Nilayam

#### **The Morning Session**

The morning session unfolded with the majestic ceremonial entry of our beloved Bhagawan Sri Sathya Sai Baba into the Sri Sathya Sai Hill View Stadium at 8 a.m. Bhagawan was welcomed by a procession of motorcycle escorts and the women's brass band from the Anantapur Campus of Sri Sathya Sai Institute of Higher Learning (SSSIHL). This was followed by a flag salute from House and Institute Captains of the SSSIHL, schools, and allied institutions, and later escorted by the lion dancers and the slow march squad, a special contingent led by the men's brass band of the Prasanthi Nilayam Campus, SSSIHL. The Veda chanting group then ushered Bhagawan to the Shanti Vedika dais. The Chancellor, SSSIHL along with senior members and students representing each of the Sai educational institutions, offered salutations to Bhagawan.

The March Past saw 46 strong contingents featuring over 2200 students from across all Sai educational institutions marching in unison towards the Shanti Vedika dais offering their salutations to their Revered Founder Chancellor. This included a special 'States Contingent' in traditional attire from the Anantapur campus, representing all Indian states and fostering a celebration of national integration. The University flag, a symbol of unity and commitment, was then hoisted, and students took the sports meet oath, promising to uphold the honour and glory of Sri Sathya Sai's mission.

The mascot Airaavat, the celestial white elephant, flew to the hill's top, lighting the principal torch and officially inaugurating the 2024 Annual Sports & Cultural Meet. The bands of all the campuses then beat the retreat with divine renditions setting the stage for the day's presentations.

The morning presentations commenced with the SSSIHL Prasanthi Nilayam campus and Higher Secondary School. The SSSIHL boys began with a mesmerizing Lion Dance, showcasing a splendid display of agility coupled with spirituality and a rhythmic synergy between the lions and the percussion instruments. This was followed by a synchronized modern dance performance that made a brilliant ode to the timeless 'Nataraja'. The spotlight of their presentation was the 32-foot-tall float of Lord Krishna's Vishwaroopa darshanam to Arjuna while conveying the timeless essence of the Bhagavad Gita on the battlefield. This was followed by a presentation by the Higher Secondary School boys fearlessly displaying their skills with Archery, synchronized rhythmic juggling, and the ancient martial art form of Kerala 'Kalarippayattu'.

The highlight was 'Throttling Tornadoes' by the SSSIHL senior students (men), featuring daredevils on 26 bikes, performing breath-taking stunts, daring jumps, riding through a ring of fire, and spectacular formations leaving the audience enthralled and stunned with their sense of balance, timing, and fearlessness, most importantly, their devotion to and love for their Divine Master. The students in the end came together to form the message 'Forever Yours Sai'.

























The SSSIHL Muddenahalli campus then offered a sequence of events from the Ramayana, highlighting Hanuman's qualities of "Utsaham, Saahasam, Dhairyam, Bhakti, Shakti, Paraakramam" by way of dance, stunts, tutting, and acrobatics.

Finally, the students from the SSSIHL Brindavan campus presented 'Tags & Chases', a competitive sport that combines the game of tag with parkour and obstacles, followed by Lezims & Drums, a folk dance from the state of Maharashtra in India, and daring stunts on roller skates, skateboards, U ramps, and German wheels.

#### **The Evening Session**

The evening session commenced with the ceremonial procession welcoming Bhagawan Baba into the Sri Sathya Sai Hill View Stadium. The tiny tots of Smt. Eswaramma High School and the Primary school stole the spotlight with their scintillating and mesmerizing display and performances. Continuing the evening's diverse cultural tapestry was a graceful presentation by the students from the SSSIHMS College of Nursing and Allied Health Sciences who presented "PRANADAATRI' demonstrating lifesaving evacuation techniques during earthquakes & fire accidents, including first aid measures, and cardiopulmonary resuscitation and a mesmerizing 'Mohiniyattam' performance portraying the inherent qualities of love, tranquillity, and kindness within a woman.

The grand finale was presented by the students of the Anantapur Women's campus, depicting a symphony of divine feminine powers (Naari Shakti). The performances, using LEDs and illuminating props, showcased the three kinds of shakti - Kriya shakti (Power of Action), Ichcha shakti (Power of Will), and Jnana shakti (Power of Knowledge), to overcome obstacles in the physical, mental, and intellectual planes. Eventually, they seek divine harmony with Adi Shakti, signifying a symphony of unified energies.

The event came to a glittering end with fireworks lighting up the skies in the Hill View stadium even as the theme song of the 99th Year of the Advent of Bhagawan filled the stadium bringing to close the main event of the Annual Sports and Cultural Meet 2024 - a captivating celebration of talent, devotion, and youthful exuberance, leaving the audience enchanted and inspired by the multifaceted showcase of the student's abilities.

#### View recording:

Morning Session: <u>https://www.youtube.com/</u> watch?v=JazSToPRdtO Evening Session: <u>https://www.youtube.com/</u> watch?v=pVf6ALNt25w









## Cultural Offering Prasanthi Nilayam, January 12-15, 2024

A drama titled **'Parivartan -The Sacred Odyssey'** was presented by the students of the Muddenahalli campus as part of the ongoing Annual Sports & Cultural Meet at the Sai Kulwant Hall, Prasanthi Nilayam on 13 January 2024. The drama portrays two businessmen mirroring Mahabharata's Karna and Arjuna highlighting the importance of divine strength and grace for success, echoing Bhagawan Baba's wisdom.

View recording: <u>https://www.youtube.com/</u> watch?v=Csk 4BdfjdE

The Dept. of Performing Arts offered a bouquet of devotional songs titled *'Sai Sangeet Uttarayanam'* on 14 January 2024, at the Sai Kulwant Hall, Prasanthi Nilayam, as part of the ongoing Annual Sports & Cultural Meet. 2024.

View recording: <u>https://youtube.com/live/</u> iL7MO2XdRkQ?feature=share

A captivating portrayal of the life and times of **Bhakta Kanakadasa**, a 15th-century Haridasa saint and Dvaita Vedanta philosopher from Karnataka, India was presented by the Brindavan campus at the Sai Kulwant Hall, Prasanthi Nilayam, on 14 January 2024. The performance depicted the transformative journey of the devoted Thimmappa to Bhakta Kanakadasa – a great devotee of the Lord, a renowned composer of Carnatic music, and a poet, known for his compositions in Kannada. The evening had a melodious beginning with the Brindavan Brass Band offering a few soulful compositions to Bhagawan.

View recording: <u>https://www.youtube.com/</u> watch?v=L7Qi2hRifgA

The transformational story of **Andhakasura** was presented by the Prasanthi Nilayam campus at the Sai Kulwant Hall, on 15 January 2024. The drama 'Shivamrutham' brilliantly portrayed the redemption of the wicked and mighty asura king by Lord Shiva.

View recording: <u>https://www.youtube.com/watch?v=34-kyaSWSE0</u>









### Prize Distribution Ceremony Prasanthi Nilayam, January 15, 2024

The Prize Distribution Ceremony of the Annual Sports and Cultural Meet 2024 for the Sri Sathya Sai educational Institutions were held on 15 January 2024, on the auspicious occasion of Makara Sankranti, at the Sai Kulwant Hall, Prasanthi Nilayam, Andhra Pradesh. The ceremony aimed to acknowledge and celebrate the outstanding achievements of students in sports, cultural, and fine arts events throughout the academic year 2023-24.

The program commenced at 8:20 a.m. with a magnificent procession featuring the University brass band, students chanting Vedam and a flag-bearing squad. This was followed by enlightening speeches delivered by teachers and students from each SSSIHL campus, shedding light on the significance of the event and sharing their personal experiences.

The categories under sports comprised of 10 track events - 100m, 200m, 400m, 800m, 1500m, 2000m, 5000m, 10000m, 4 x 100m, and 4 x 400m relays, and 7 field events - shot put, discus, hammer, and javelin throwing events, high jump, long jump, and triple jump, along with over 11 team and individual games like basketball, football, cricket, volleyball, ball badminton, handball, lawn tennis, table-tennis, tennikoit, badminton, and kho-kho.

In the cultural category, there were over 45 segments, encompassing debate, drama, quiz, orchestra, instrumental, light vocal, modeling, mono acting, mime, painting, photography, poster making, elocution, short story writing, sketching, stotram and Vedam chanting, yoga, classical and folk dance, bhajan antakshari, Carnatic and Hindustani classical vocal, mehndi, cartooning, clay modeling, and more.

A total of **1390 prize winners, comprising 796 in sports and 594** in cultural events, were recognized at SSSIHL. This included the distribution of **121 Gold, 89 Silver, and 88 Bronze medals** specifically for Athletics. The ceremony featured the presentation of **28 Championship** trophies, with 12 allocated to Athletics, 12 to cultural events, and 4 to Fine arts celebrating the remarkable achievements of the students.

View recording: https://youtube.com/live/OVOn7DDMHVI

### 2024 Sports Meet Champion List

#### **Athletic Champions**

Name	Program	Campus
Ardra K B	UG	ATP
Yamini H	PG	ATP
Ronak Thapa	UG	BRN
A Sai Kumar Reddy	PG	MDH
K. Gowtham	UG	PSN
Amarjith PK	PG	PSN

### **Cultural Champions**

Name	Program	Campus
Rani Srivalli Satya Subha	UG	ATP
Uma Meenakshi R	PG	ATP
Suryaprakash Bharaadwaj	UG	BRN
S Sai Ganesh	UG	MDH
Anand Chhetri	UG	PSN
Chimirala Sashidhar	PG	PSN

#### **Fine Arts Champions**

Name	Program	Campus
Anika Hingne	UG	ATP
Pathak Maitree Jaykumar	PG	ATP







































# Annual Convocation Prasanthi Nilayam, November 22, 2023

Sri Sathya Sai Institute of Higher Learning (SSSIHL) (Deemed to be University) held its 42nd Annual Convocation at the Sai Hira Global Convention Centre, Prasanthi Nilayam, Andhra Pradesh, on 22 November 2023.

Hon'ble President of India Smt. Droupadi Murmu graced the Convocation as the Chief Guest and also delivered the Convocation address. The Hon'ble Governor of Andhra Pradesh Sri S Abdul Nazeer was the Guest of Honour. Additionally, the event was graced by Smt. K V Usha Sricharan, the Minister for Women, Children, Differently Abled, and Senior Citizens Welfare from the Government of Andhra Pradesh.

On their arrival at the venue, the women's brass band of the Anantapur campus accorded a ceremonial welcome to the Chief Guest, the Guest of Honor, and the Minister, Govt. of Andhra Pradesh, where they were received and greeted by the Chancellor Sri K Chakravarthi IAS (Retd.), and the Vice-Chancellor Prof. B Raghavendra Prasad and Sri R J Rathnakar, Managing Trustee, Sri Sathya Sai Central Trust. The Chief Guest along with the Guest of Honour, the Minister, Govt. of Andhra Pradesh, the Chancellor, Vice-Chancellor, Controller of Examinations, Members of the Sri Sathya Sai Institute of Higher Learning Public Charitable Trust (PCT), the Board of Management, and Deans advanced towards the dais in a ceremonial procession with the Registrar of the Institute carrying the ceremonial mace.

The event commenced with the National Anthem upon the arrival of the Chief Guest, Guest of Honour, the Minister, Govt. of Andhra Pradesh, the Chancellor, and the Vice-Chancellor onto the stage, which was followed by the invocatory Veda chanting from the Taittriya Upanishad. The Convocation was then declared 'open' in the Divine voice of the Revered Founder Chancellor Bhagawan Sri Sathya Sai Baba at the request of the Vice-Chancellor.

In his welcome address, the Vice-Chancellor Prof. B Raghavendra Prasad took great delight in welcoming the Hon'ble President of India, the Hon'ble Governor of Andhra Pradesh, and the Minister for Women, Children, Differently Abled, and Senior Citizens Welfare, Govt. of Andhra Pradesh, to the 42nd Convocation of the Institute. Sharing a summary of the activities by the various departments and by the Institute during the previous academic year and to date, he highlighted the implementation of the new four-year programmes in alignment with the NEP 2020, the institute's focus on emerging technologies such as Deep Learning, Cyber Security, and Quantum Computing, strides made on the Industry-academia connect, the establishment of the Centres for Excellence in Actuarial Data Sciences, and another in Mathematical Biology reflecting the institute's commitment to academic excellence in interdisciplinary domains.

The grand ceremony then saw the Hon'ble Chancellor, Shri K Chakravarthi, IAS (Retd.), admit 503 candidates to their degrees followed by the convocation pledge administered by the Vice-Chancellor. President Droupadi Murmu then conferred the 21 Gold Medals on the qualifying students who achieved distinction in various disciplines.

Governor Sri S Abdul Nazeer praised the institute as a beacon of value-based education, urging students to uphold Dharma and contribute to society. President Smt. Droupadi Murmu, honoring Bhagawan Sri Sathya Sai Baba on His 98th Birthday, spoke on the importance of Truth and Righteousness, describing the institute as a "Modern Gurukula" and emphasizing the need for strong moral foundations in education. She praised the institute's unique "Edu-care" approach and advocated for increased opportunities for women in education.

Congratulating the graduates, the President was confident that the students would spread eternal life values in accordance with the ideals taught at the institution.

View recording: <u>https://www.youtube.com/</u> watch?v=KWhhNv1ziXs







## Annual Convocation Drama November 22, 2023

#### Divya Prema - Bridging Lives through the Eternal Wisdom of Rama Katha Rasavahini

The story of Sri Rama is an immense bridge, uniting the lofty principles of Dharma with simple yet profound life lessons. The divine bond of love between Mother Sita and Sri Rama, the unwavering devotion of Lakshmana, the profound humility of Hanuman, and the enduring brotherhood exemplified by Bharata—each unfolds its own invaluable lesson.

This play 'Divya Prema' by the students of SSSIHL is merely a rivet in that bridge—an instance of that profoundness taking us through the challenges faced by characters in the Ramayana, the repercussions of their choices, the resolution found in surrender, and the ultimate reward of bliss. The play parallels the experiences of its protagonists—Sai students—with events from the Ramayana to drive home relevant insights. It highlights how every decision involves considerations of what, when, why, how, and where, and a flaw in just one can cast a shadow over the entire outcome.

Life, it suggests, doesn't always introduce you to the people you want to meet but puts you in touch with those you need to meet—whether to help, hurt, love, or leave but gradually strengthens you into the person you were meant to become. Our lives have been sanctified by entering Swami's fold, as He has declared that He is the same Sri Rama come again and that He is searching for His former associates to assign them roles in His current mission of reviving righteousness and guiding humanity into the haven of peace. Let us pray that we too be allotted roles, and may He grant us, as a reward, the vision of that haven.

View recording: <u>https://www.youtube.com/live/</u> ESO63Jwe8AE?t=2475s







## **All-Round Gold Medallists**

Rani Srivalli Satya Subha Bachelor of Arts

Pulkit Khare Bachelor of Commerce (Honours)

**Pakala Pruthividhar Reddy** Master of Technology in Optoelectronics and Communications

A Aditya Bhardwaj Master of Science in Data Science and Computing

### **Gold Medallists**

Juttu Adarsh Varma Bachelor of Arts (Honours) in Economics

Madduri Sai Sri Datta Bachelor of Science (Honours) in Economics

Cherukuri Sai Kartheek Bachelor of Science (Honours) in Mathematics

Vikram Krishna Bachelor of Science (Honours) in Biosciences

**Bellapu Ravvala Shreya** Bachelor of Science in Food and Nutritional Sciences

**Ritu Raj Pradhan** Bachelor of Science (Honours) in Computer Science

Kolla Vinay Sai Bachelor of Commerce (Honours)

**Agaventi Bhargav** Bachelor of Business Administration

Nithin Nithya Harsha Bachelor of Performing Arts in Music

**Guggilam Sri Chandana Krishna Lekha** Bachelor of Education

**H Sreeram** Master of Arts in Economics

Sathyanarayan Narayan Master of Science in Mathematics

Sahil Pradhan Master of Science in Physics

Mainak Mukherjee Master of Science in Chemistry

Mani Kanta Koppolu Master of Science in Biosciences

Yukti Bhardwaj Master of Arts in English Language and Literature

Kesavani Netheti Master of Science in Food and Nutritional Sciences

Akash Bairagi

Master of Science in Data Science and Computing

Poduru Shesha Sai

Master of Business Administration

**Desetti Sai Nandan** Master of Technology in Computer Science

Shriram Kori Master of Technology in Optoelectronics and Communications

## Ph.D. Awardees

Ram Murthy - Chemistry Electrochemical and Biological Applications of Sulphur-Based Ligands and their Palladium (II), Cobalt (II), and Nickel (II) Metal Complexes

**K J Srinivas - Management** Implementable Strategies for Sustainable Rural Development -A Study in Select States of South India

**Chandrahaas C S - Management** Conceptualization, Development, and Validation of Holistic Leadership Scale through a Study of Three Values-Centered Socio-Political Leaders

Sai Swaroop R - Biosciences Integrated clinical and multi-omic analysis of protein aggregating and demyelinating diseases identify molecular signatures, potential biomarkers, and therapeutic targets

**Nitesh Tamang - Chemistry** Synthesis, Characterization, Anticancer and Antiplasmodial Activities of Potent Andrographolide Derivatives

Anjana Biswas - Physics Functionalized Titanate (H2Ti3O7) Nanotubes as Versatile Materials for Efficient and Rapid Adsorption of Fluoride and Heavy Metal Ions from Water

**K V Seetarama Mani Chandrika - Chemistry** *Bio-inspired molecules for desalination, hydrogen storage, and antimicrobial applications* 

N Saiharini - Food and Nutritional Sciences Valorization of fruit processing by-products: Extraction, characterization, phenolic and pesticide residue profiling and utilization as a valuable source of pectin and dietary fiber

**R Sriram - Biosciences** Integrated Clinical and Metabolomic Evaluation of Dengue and Design of Mobile Phone-based Dengue Diagnostics with Novel Plasmonic Nanomaterials

Nishant Kumar Kolli - Chemistry Investigations into Combeite-based materials as potential biomaterial platforms invigorating osteoblastic proliferation

Sai Sanwid Pradhan - Biosciences

Integrated clinical and multi-omic analysis shows that deregulated pathways modulate protein aggregation in Huntington's disease: Mechanisms, Potential Biomarkers and Therapeutic Targets

Rahul Poddar - Mathematics

*Riemannian Manifolds Carrying Some Specified Structures and Conformal Vector Fields* 

Cheerala Vijay Sai Krishna - Chemistry

Synthesis of Novel Benzoxazole-Hybrids for Cyanide Sensing and Biological Applications

### Prasanthi Vidwan Mahasabha Sai Kulwant Hall, Prasanthi Nilayam, October 18-24, 2023

Dasara, or Navaratri, is a ten-day festival celebrated across India, usually in October, in honor of the Divine Mother principle. Since the early 1960s, Dasara at Prasanthi Nilayam has been closely linked with the **Veda Purusha Saptaha Jnana Yagna**, a week-long sacred worship conducted annually in the Divine Presence at the Poornachandra Auditorium for the welfare of the world.

Students of Sri Sathya Sai Institute of Higher Learning (SSSIHL) actively participate by chanting Vedic hymns, reading scriptures, and performing other aspects of the worship alongside learned pundits.

In the evenings during the Yagna, programmes are held in Sai Kulwant Hall under the banner of the **Prasanthi Vidwan Mahasabha**. These sessions feature addresses by scholars, students, and functionaries from Bhagawan's educational institutions, focusing on spirituality, philosophy, Bhagawan Sri Sathya Sai Baba's teachings, and personal experiences of devotees. The speakers in 2023 included:

- Dr. Sowmya Srinivasan, Dept. of Languages and Literature, Anantapur Campus
- Sri Pada Venkata Sathyanarayana Sharma, Dept. of Mathematics and Computer Science
- Sri Manoj Gadi Prakash, Dept. of Management and Commerce
- Dr. Shailesh Srivastava, Dept. of Physics

As part of the ongoing Dasara celebrations, the students of the Anantapur Campus offered a devotional music program titled '**Bhava Tarangini**' Meanwhile, students from the men's campuses performed '**Nada Brahmamayi**,' celebrating the Divine Mother and Lord Sri Ramachandra, and '**Devi Tubhyam Namaha**,' a medley of devotional songs in various languages. These offerings added to the spiritual vibrancy of the festival, bringing together devotion, knowledge, and the blessings of the Divine.















### S G Sundaraswamy Memorial Lecture Prasanthi Nilayam, September 24, 2023.

Dr. (Prof.) U S Vishal Rao, a leading head and neck oncologist and surgeon, delivered the S G Sundaraswamy Memorial Lecture 2023 at the Sai Hira Global Convention Centre, Prasanthi Nilayam, Andhra Pradesh, on Sunday, 24 September 2023.

Speaking on the topic '*Possibility to Actuality: Bridging the Gap Between Biological Advances and Technological Advances*' Dr. Vishal Rao explained in detail the rapidly emerging area of translational medicine, a 'bench-to-bedside' approach that challenges established theories, disrupts the current state of medicine, and reimagines evidence-based practices through technological advancements, all to rapidly improve public health and patient care.

The talk emphasized the importance of adopting Design Health thinking to identify and define problems, leading to sustainable solutions. He believed that the greatest tribute the students of Sri Sathya Sai Institute of Higher Learning could offer to the Founder Chancellor Bhagawan Sri Sathya Sai Baba would be to use the world-class research facilities at the Institute for the benefit of society. Dr. Vishal Rao spoke about the need to foster collaboration between academia and industry to create an innovation ecosystem that bridges the gap between biological and technological advancements.

A highly accomplished and respected figure in the field of medicine and academia, Dr Vishal Rao is a Fellow of the Royal Society of Medicine and currently serves as the Country Director for Head and Neck Surgical Oncology and Robotic Surgery at the HCG Cancer Centre in Bengaluru. He is also the Dean for the Centre of Academics & Research within the HCG Group. He is the inventor of 'Aum Voice Prosthesis' a \$1 speaking device for throat cancer patients. His invention is a part of 100 global social innovations across the globe. Dr. Vishal Rao is serving as a member of the Consultative Group to the Principal Scientific Advisor to the Prime Minister, Govt. of India, and a member of the Vision Group for Science, Technology & Biotechnology in the Government of Karnataka. Additionally, he holds the position of Country Director for the International Federation of Inventors Association (IFIA Bharat).

The S G Sundaraswamy Memorial Lecture is an annual endowment lecture at Sri Sathya Sai Institute of Higher Learning (SSSIHL) instituted in honour of late Sri S G Sundaraswamy—a doyen of the legal profession in Bengaluru and an ardent devotee of Bhagawan Baba—by his son, Sri S S Naganand, Trustee, Sri Sathya Sai Central Trust, Sri Sathya Sai Institute of Higher Learning (Public Charitable Trust), Sri Sathya Sai Sadhana Trust and Sri Sathya Sai Media Foundation.

View recording: https://www.youtube.com/live/1JohqqJwxDQ







# Summer Course in Indian Culture & Spirituality, July, 2023

The Summer Course in Indian Culture & Spirituality serves as an induction programme at the beginning of each academic year for all students and teachers of Sri Sathya Sai Institute of Higher Learning to expose students of the University to Bharat's rich cultural and spiritual heritage. It orients students into Bhagawan Baba's educational philosophy and gives them deep, first-hand insights into how they can directly benefit from this unique institution.

# Highlights from the Summer Course for the Academic Year 2023-24:

The **Muddenahalli campus** hosted the Summer Course 2023 from 13-15 July. The inaugural ceremony featured a grand procession, Vedam chanting, and lamp lighting by Chief Guest Dr. Sai Kumar, IAS, along with Sri B. Venkataramana, Director; Sri Sai Manohar, Warden; Dr. K. Sayee Manohar, Head of the Department of Management and Commerce; and Dr. G. S. Srirangarajan, Associate Professor, Department of Management and Commerce.

Sri Sai Govardhan J., Assistant Professor, of Languages & Literature, introduced the course's objectives, and Sri B. Venkataramana emphasized exploring Indian culture and spirituality. Dr. Sai Kumar, IAS, highlighted divine blessings and lessons from ancient scriptures in his Inaugural Address. The day's events included a Bhajan workshop led by Sri S. Ravi Kumar, Dr. Amey Deshpande, and Dr. Siddhartha R. from Prasanthi Nilayam, followed by a talk on the Ramayana by Dr. G. S. Srirangarajan and a Parayanam session by Sri R. Subramanyan.

Day 2 featured a talk by Sri Ashok Sundareshan on Bharatiya solutions to current issues, followed by Pandit Sri Mukesh Sudarshan, who spoke on Vedic traditions. A panel discussion moderated by Dr. B. Chandrasekhar included alumni Sri Vikram GN, Associate Manager, Global Advocacy; Sri S. Ajay Mukund, a Ph.D. scholar at Anna University; Sri M. Sai Santosh, Financial Analyst intern; Sri Sravan Sai, Associate at JP Morgan; and Sri Chikkam Sai Phani Kumar, Assistant Manager at HDFC. Day 3 began with a talk by Sri Kota Siva Kumar on "Dharmo Rakshati Rakhitaha," followed by a skit by students based on Swami's "Chinna Katha." The event concluded with a valedictory address by Sri Sanjay Sahni, Controller of Examinations, who shared his experiences with Bhagawan.









The Summer Course held from 13-15 July at the Anantapur **campus**, blended spiritual teachings with practical insights. The event opened with a grand procession featuring the Institute Band 'Sai Melodies,' Nadaswaram, Bhajans, and Vedam. Prof. M. Praphulla, Director of the Anantapur campus, welcomed attendees, and Prof. N. Srividya, Deputy Director, reflected on past Summer Courses and Bhagawan's meticulous planning. Sri K. Chakravarthy, Chancellor of SSSIHL, delivered the inaugural address, stressing the importance of respecting Bharatiya culture. Day 1 included a talk by Sri Sai Surendranath, faculty at SSSHSS, Prashanthi Nilayam, on the spiritual significance of Hindu rituals. Research scholars presented "Love Supreme: A Magic Wand to Unveil Human Values," exploring Bhagawan's cardinal values through various media, and Dr. C. Padmavathamma, retired faculty, at SSSIHL, led a Parayanam talk.

Day 2 featured a yoga session, a talk by Dr. Rani P.L., Associate Professor of Languages & Literature, on aligning with divine directives, and keynote addresses by Prof. Sai Swaroopa Iyer, faculty at Chanakya University, on Purusharthas, and Dr. Kiron Bala Arora, Honorary Associate Professor of Hindi and former Warden of the Sri Sathya Sai Hostel for Women, Anantapur, on the Ramayana's historical accuracy. This was followed by a cultural performance titled "Etaddhi Ramayanam" by senior students, a study circle, and a Parayanam talk by Ms. Kiron Gupta. On the final day, Dr. U. Suma, Associate Professor and Dean of Management & Commerce, contrasted secular and spiritual education, while Bhagawan's divine discourse emphasized humility and cultural adherence. Dr. Narasimhan, Director of SSS General Hospital & Mobile Hospital, spoke on "Spirituality in Practice - Seva," and Dr. K. Aravinda Rao, IPS (Retd. DGP, AP), discussed "Bhagavad Gita - Spirituality in Action." The event ended with a Quiz on Bharath and Bharatiya Culture, and a Valedictory address by Prof. B. Sai Giridhar, Registrar of SSSIHL, who encouraged students to practice compassion and discernment. As per tradition, the institute honored superannuated faculty members for their dedicated service to the institution.

The **Brindavan campus** conducted the Summer Course 2023 from 14-16 July. The event commenced with a grand procession, followed by Vedam chanting and the ceremonial lighting of the lamp. The Vice-Chancellor, Prof. B Raghavendra Prasad, delivered the inaugural address, emphasizing the significance of Indian culture and spirituality at all levels. A video presentation by Swami Paramarthananda of Arsha Vidya Gurukulam explored Bharatiya Shastras. Group Captain K R Narayana, an alumnus, delivered an insightful presentation on "Defence Forces and Spirituality." The final-year students' drama on Saint Narayana Bhattadri was followed by a study circle, Bhajans, and a parayanam session led by alumnus Sri Niranjan Mudbidri.

Day 2 featured a panel discussion titled "Living with Sai" with notable alumni including Prof. Gopichandran, Sri Jasti Krishna Kishore IRS, Sri Venkatesh Prasad, and Sri Ashok Ahuja, followed by a quiz on Swami's life conducted by Dr. Balaram Khamari, Asst. Prof., Department of Biosciences. The day also included a drama presentation titled "Cheppinatlu Chestara,"









followed by a discussion led by Warden Dr. T. Ravikumar. The evening concluded with a music program and a parayanam session by Sri D V Chandrasekar, Sr. Manager at SSSIHMS, Whitefield. Day 3 saw a presentation by Sri Naveen Lakkur, Chief Innovation Coach, on "Inclusion and Diversity - Indian Culture and Spirituality Enabling Innovation," followed by a session by Sri Sai Giridhar Sairam, Resident Scholar, on "Vasudhaiva Kutumbakam," which tied into the G2O Jan Bhagidhari events. The course concluded with a valedictory address by corporate trainer Sri Vijay Menon, who urged students to practice self-reflection and moral growth. The event ended with a vote of thanks, Mangala Arathi, and the distribution of Prasadam.

The Prasanthi Nilayam Campus conducted the Summer Course from 13-15 July. The event themed "Sa Vidya Ya Vimuktaye," meaning "The one who knows is liberated," began with a ceremonial procession and the lighting of the lamp. Dr. Shailesh Srivastava set the context for the course, reminding students of the unique opportunity to be part of Swami's university, which offers a distinct approach to knowledge and life. This was followed by an inaugural address by Vice-Chancellor Dr. Raghavendra Prasad, who emphasized the importance of Swami's educational ideals. A divine discourse by Bhagavan Sri Sathya Sai Baba was then shared with the audience. Sri Vinay Kumar, Trustee of the Sri Sathya Sai Karnataka Trust, addressed the gathering on "Living with God is True Education," sharing his personal experiences with Swami and insights on attention to detail. Later in the day, a discourse on the Taittiriya Upanishad was followed by group discussions. The evening concluded with a parayanam session led by Shri C G Sai Prakash from the SSSMC, who shared his experiences with Bhagavan.

Day 2 featured a quiz on "Indian Knowledge Systems" organized by Dr. Chandrahaas and Shri R. Sai Naveen from the Department of Management and Commerce. The forenoon session concluded with a talk by alumnus Shri Gunaranjan, founder of Yousee.in who spoke on "Education is for life; not for a living," stressing the importance of adaptability and service. The afternoon saw the conclusion of the study circle on the Taittiriya Upanishad, followed by a Bhajan Antakshari session hosted by Dr. Siddhartha Raju and Dr. A S Viswanathan, highlighting the spiritual power of Sai Bhajans. On the final day, the course was graced by Shri Vijay Menon, a renowned human development strategist, who spoke on "From Vishyarthi to Vidyarthi to Vinayarthi." He recounted the lives of devotees like Karanam Subamma and urged students to cultivate humility and service. The day also included a musical performance by the Department of Performing Arts. The valedictory address was delivered by Dr. Sai Shyam Sharma, Associate Professor, Department of Mathematics & Computer Science, who discussed the stages of learning and thanked everyone for their contributions to the event's success. The 2023 Summer Course left students with a deeper understanding of how knowledge should lead to humility, the importance of studying Bhagawan's teachings, and the inspiration to follow the path of service set by Swami's devotees.









# **Community Service**

#### Plogging for a Cleaner Campus on International Day of Zero Waste, Anantapur, March 30, 2024

In line with its commitment to sustainability and environmental consciousness, the SSSIHL Green Cell, Anantapur Campus, organized a campus-wide plogging event on March 30, 2024, to mark the International Day of Zero Waste. The event saw the participation of around 25 students, all eager to make a positive impact on their surroundings and the environment. Plogging—an activity that combines jogging with picking up litter—proved to be a fun and effective way to promote environmental awareness while staying physically active. Equipped with gloves and trash bags, the students set out across the campus, carefully collecting litter from every corner. The event aimed to raise awareness about the importance of reducing waste and embracing sustainable practices in everyday life, reinforcing the message that small actions can contribute to a healthier planet.

#### Narayana Seva, Anantapur, March 26, 2024

On the joyful day of Holi, March 26, 2024, as part of the regular monthly Narayana Seva 320 packs of 'Prasadam' were prepared for distribution. A small group of students, along with a teacher, visited a slum near Bukkarayasamudram, an orphanage, and a gas station to distribute the prasadam. As the team approached the slum, the residents' faces lit up in anticipation, particularly the children, who eagerly gathered around with bright smiles as they received the prasadam. Their next stop was an orphanage for children under the age of twelve, where the prasadam was distributed with the same love and care. On their way back, they made a final stop near a gas station, ensuring that a few more needy individuals received the prasadam, spreading joy and warmth along the way.

#### Narayana Seva, Anantapur, February 15, 2024

On February 15, 2024, Narayana Seva was conducted at the Anantapur Campus. A group of students, along with a supervising teacher, visited a government-run orphanage and a nearby slum to distribute 'Prasadam'. This initiative had a profound impact on both the recipients and the students. For the recipients, the Prasadam, coupled with kind gestures and heartfelt interactions, lifted their spirits, reminding them that they are valued and cared for. For the students, the experience was transformative, deepening their sense of empathy, humility, and service, while fostering a greater understanding of social responsibility.

#### Visit to Sai Dwarakamayee Vriddhashrama, Muddenahalli, February 11, 2024

On February 11, 2024, the students of Muddenahalli Campus visited Sai Dwarakamayee Vriddhashrama, an old age home in Sultanpet. This was not just a visit but a heartfelt experience that deeply resonated with the students. Upon arrival, the students were immediately drawn to the elderly residents, who welcomed them by sharing their life stories and experiences. What began as a simple interaction soon became







a meaningful exchange, leaving an indelible mark on the students and elders.

The visit gave students a chance to reflect on the importance of respecting and honoring the elderly and appreciating their wisdom and contributions to society. Conversations with the elders also opened their eyes to the realities of aging, fostering a deep sense of empathy and compassion. Through these interactions, the students learned valuable life lessons and challenged common stereotypes about old age, cultivating greater sensitivity and understanding toward the elderly.

#### Christmas with Children at Byranayakanahalli Village, Muddenahalli, December 25, 2023

On the morning of December 25, 2023, the students of Muddenahalli Campus had a unique and heartwarming outreach program. They visited Byranayakanahalli, a neighboring village, to celebrate Christmas with the local children. The event began with prayers, setting a serene and festive tone for the morning. The students then sang melodious Christmas carols, bringing joy and excitement to the children. The celebration culminated in a delightful surprise, as "Uncle Santa" distributed chocolates to the children, leaving them thrilled and full of holiday cheer!

#### Demonstration of Chemistry Experiments at Govt high school, Government High School, Muddenahalli, November 17, 2023

On November 17, 2023, students from the Department of Chemistry, Physics, and Biosciences, conducted an outreach programme at the Government High School in Muddenahalli, where Chemistry experiments were demonstrated to the students. Due to the lack of lab facilities in many government schools, students often only learn about experiments from textbooks. This programme offered them a rare opportunity for hands-on learning, which was enthusiastically received by both the students and teachers.

The Biosciences group, led by Dr. K.N. Naresh, demonstrated experiments to the 9th-grade students, while the Chemistry department, led by Dr. Santanu Roy, engaged the 8thgrade students with exciting experiments conducted on the school lawn. The Physics team, guided by Dr. V. N. Ravi Kishore Vukuturi and Sri Sudhanshu Tiwari, also held their demonstrations. The students were thrilled to interact with the mentors, and the event became an inspiring learning experience for all. The enthusiasm shared by the teachers and mentors during the demonstrations filled the atmosphere with joy and excitement, making the day memorable for everyone involved.

#### Special Campaign 3.0 for Institutionalizing Swachhata, October 2 -31, 2023

Inspired by Bhagawan Sri Sathya Sai Baba's message on cleanliness, the students and faculty across SSSIHL campuses regularly participate in activities that maintain cleanliness across the hostel and campus throughout the academic year.









The Swachh Bharat Mission, launched by the Government of India, and the Swachhata Pakhwada initiative align closely with the ongoing efforts at SSSIHL.

# Swachhata Pakhwada:'Ek Tareekh, Ek Ghanta, Ek Saath', October 2023

On October 1, 2023, marking the nationwide cleanliness drive in honor of Mahatma Gandhi Jayanti, students and staff took part in the 'Ek Tareekh, Ek Ghanta, Ek Saath' initiative. As part of Swachhata Pakhwada students undertook several activities that covered classrooms, labs, hostel rooms, generator rooms, e-waste, and outreach programs promoting cleanliness and environmental care:

- The Department of Chemistry at the Prasanthi Nilayam campus led a thorough cleaning of classrooms, labs, and corridors. Students and faculty segregated and labelled chemicals, disposing of expired materials according to safety regulations. All M.Sc. students actively participated under the guidance of faculty, with geo-tagged photos shared for reference.
- The Department of Mathematics and Computer Science recognizing the importance of a clean and organized workspace in fostering creativity and productivity, organized a clean-up drive every fortnight. Approximately 90 M.Sc. Mathematics and M.Tech. Computer Science students, along with 14 research scholars and 12 faculty members, participated.
- The students and faculty of the Dept. of Education, Anantapur campus conducted a Swachhata drive as part of the following best practices creating Eco-Clubs and holding cleaning activities on the campus.
- E-waste was collected and disposed of across various departments following university protocols.
- Faculty, staff, and students organized campus-wide scrap collection and disposal, generating over ₹1 lakh in revenue.
- Undergraduate students carried out environmental studies on campus, with presentations and certificates scheduled to be awarded on October 7, 2023.
- Hostel rooms were cleaned weekly as part of regular upkeep.
- Students and staff cleaned the Music Museum located next to the Music College.
- A rural service project was conducted in collaboration with SSSIHL alumni, focusing on oral health check-ups and raising awareness about maintaining a healthy environment.

#### Demonstration of Chemistry Experiments at Elementary Government School, Narasimhapalli, Puttaparthi Mandal, September 16, 2023

The Department of Chemistry from SSSIHL conducted an outreach programme in Narasimhapalli, a remote village in Puttaparthi Mandal, to demonstrate Chemistry experiments



for students at the local elementary government school. Due to the lack of infrastructure, these students typically study experiments from textbooks but are unable to experience them in a real lab setting.

Led by Dr. Santanu Roy, Associate Head, Department of Chemistry, and Dr. B. Praphulla Chandra, Asst. Professor, Department of Chemistry, the objective of the outreach programme was to ignite interest in science among elementary government school students by demonstrating Chemistry experiments and in the process encouraging our M.Sc. students to contribute to the development of rural schools as part of the Grama Seva programme, initiated by the Founder Chancellor of SSSIHL.

Teachers at the school were also actively involved and expressed their appreciation for the initiative along with the students creating a valuable learning opportunity for both teams.

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#### MeriLiFE Massive Tree Plantation Drive 2023, Anantapur, August 15, 2023

As part of the "One Student, One Tree 2023" initiative under the Indian government's "MeriLiFE Massive Tree Plantation Drive 2023" — an effort aligned with the global Mission LiFE movement to promote sustainable lifestyles — a large-scale tree plantation drive was held at the Anantapur Campus, on August 15, 2023. Mission LiFE, led by India, aims to inspire individuals and organizations to take actions that contribute to a sustainable future, with a target of planting one crore trees across various institutions.

During the event, first-year undergraduate students, alongside faculty, participated actively in planting 99 diverse saplings across the campus. These saplings were generously donated by Mr. A.G. Anil Kumar, founder of the Green Army Organization, Anantapur. The students expressed a strong commitment to nurturing the trees they planted, ensuring their growth throughout their stay on campus.

#### Addressing Waste Management through Community Engagement, Brindavan, August 7-8, 2023

On 7 & 8 August 2023, the Brindavan Campus organized a community engagement programme to address local waste management issues. Situated in an urban area with inadequate waste disposal systems, the initiative aimed to promote environmental awareness among students, staff, and the surrounding community.

A team of teachers surveyed the bus stops near the campus, noting the piles of waste. A group of 15 students was then assigned to clean the area on 8th August. Equipped with masks and gloves, the students cleared trash and segregated recyclable items like PET bottles and plastics for proper disposal. The programme fostered a sense of satisfaction and responsibility in students, who learned the importance of cleanliness and recycling. Additionally, members of the community were inspired to take a more active role in maintaining their environment.

#### Cheyutha Programme, Anantapur, 2023-24

'Cheyutha,' meaning 'Serving the Needy,' is an initiative aimed at supporting the children of the campus contingent staff in their academic journey. Throughout the year, six to ten students volunteer to teach subjects like basic English, arithmetic, and more. In addition to academic support, the volunteers assist the children with their daily homework and assignments. To keep the learning experience engaging, the sessions often include storytelling with moral values, games, and *bhajans* to inspire enthusiasm and interest among the children.

For the students involved, the experience is deeply rewarding. It cultivates personal growth, sensitivity to the needs of others, and a better understanding of the subjects they teach. Moreover, the act of service brings a sense of fulfillment, enhancing both their interpersonal skills and their overall understanding of human values.





# **Cultural Events** Festivals & Important Days

#### Punarmilan: A Day of Reunion & Alumni Homecoming, April 27, 2024

Alumni spanning across ten batches reunited on 27 April 2024 for Punarmilan, an alumni initiative to reminisce, reconnect, rejoice, and celebrate cherished memories in the serene surroundings that shaped their academic journey at Sri Sathya Sai Institute of Higher Learning, Muddenahalli Campus. The event was a tribute to the dedicated faculty and staff who played pivotal roles in their educational pursuits. It was a collective expression of gratitude and appreciation for their alma mater, a place that holds a special corner in their hearts.

#### Sri Sathya Sai Aradhana Day, April 24, 2024

The 13th Sri Sathya Sai Aradhana Mahotsavam was observed on April 24, 2024, at Prasanthi Nilayam, commemorating the *MahaSamadhi* of Revered Founder Chancellor Bhagawan Sri Sathya Sai Baba. The day, known as Aradhana Day, reminds us of the Omniscience and Omnipresence of the Avatar, with students and staff expressing their love and gratitude through the traditional offering of the "Sai Pancharathna Kritis." Prominent Carnatic musicians from South India performed the Sai *Pancharatna Kritis* in the morning session. His Excellency, Governor of Kerala, Sri Arif Mohammed Khan, graced the occasion as the Guest of Honor and spoke on the essence of *Sanathana Dharma* as upheld by Indian culture. He later launched the mobile apps for two new projects offered to Bhagawan by the Sri Sathya Sai Seva Organisations:

- Sri Sathya Sai Divyanga Jan Seva: An initiative to provide 100,000 physically challenged individuals with artificial assistive devices.
- Sri Sathya Sai Liquid Love: A pan-India online portal for efficient blood donations.

On the eve of Sri Sathya Sai Aradhana Mahotsavam, 23rd April, the students and staff of Bhagawan's educational institutions collectively offered Devotional Music Program *Prema Aradhana* as their heartfelt gratitude in the form of soulful songs interspersed with short narrations.

#### Gratitude Offering by Outgoing Students, March 2024

The Final year batches of all four campuses held heartfelt gratitude programs at the Sai Kulwant Hall to express their love and devotion to the Founder Chancellor Bhagawan Sri Sathya Sai Baba. On March 10th, students of the Muddenahalli Campus, presented "Tum Se Tum Tak", a musical tribute where they shared their gratitude in their mother tongues through devotional songs. On March 14th, the Prasanthi Nilayam Campus students performed "Ye Rishta Anant Hai", symbolizing their eternal bond with Sai through a cultural program of devotional music and speeches. The Brindavan Campus students offered "Living His Legacy", a program featuring drama, songs, and speeches on March 23rd and the Anantapur Campus girls presented "Premaku Premato", a soul-stirring musical offering blending devotional songs with expressions of love on the 31st March 2024. These programs reflected the deep sense of gratitude and spiritual connection shared by all the students.

















# Sai Swara Taalarpanam - A Musical Offering, March 28, 2024

The Department of Performing Arts presented a soulful musical offering titled *Sai Swara Taalarpanam* in the Divine Presence of Bhagawan in Prasanthi Nilayam on March 28, 2024. The program began with an instrumental Veena rendition of *Samaja Vara Gamana* by Saint Thyagaraja in Raga Hindolam. This was followed by a Hindustani piece, *Nata Nagara Ati Sundara*, in Raag Kirwani, which depicted the beauty of Bhagawan Sri Krishna. The event featured a dynamic Tabla ensemble in Teen Taal, another Carnatic composition, *Shiva Shiva Shiva Enarada* in Raga Pantuvarali. It concluded with a vibrant fusion performance in Raag Yaman, including Sai Bhajans.

#### Maha Shivarathri, March 8, 2024

The holy festival of Maha Shivarathri falls on the Krishna Chathurdasi day which is on the fourteenth day during the waning of the moon in the month of Magha. The students of all the campuses are fortunate to participate in the grand celebrations of this holy day at the Sai Kulwant Hall in Prasanthi Nilayam.

On 8 March 2024, the festivities started at 8.00 a.m. with sacred Vedic chants. This was followed by a magnificent presentation of Nadaswaram and Panchavadyam by the students. The students then rendered the Lingashtakam, Kalabhairavashtakam, and Bilvashtakam, and sang devotional songs. In the evening, the students witnessed the sacred Abhishekam of the Sayeeswara Linga chanting the Rudram, and Sri Sathya Sai Ashtottarashata Namavali and listened to the nectarine Discourse by Bhagavan. They then participated in the 12-hour-long Akhanda Bhajan (6 pm, 08 Mar to 6 am, 09 Mar)). Students of each campus took turns to participate in singing the bhajans along with devotees. The sacred night vigil concluded at 6 a.m. on 09 March with Mangala Arathi and Prasadam distribution

#### International Women's Day Celebrations, March 07, 2024

The Department of Education and Gender Sensitization Cell at Sri Sathya Sai Institute of Higher Learning (SSSIHL), in collaboration with the Department of Humanities & Social Sciences, organized a vibrant celebration of International Women's Day at the Anantapur Campus in March. The event honored the multifaceted roles of women in today's society, aligning with the Government's 'Beti Bachao Beti Padhao' initiative. A thought-provoking play titled "Trikarna Shuddhi - Stree Shakti" was performed, embodying the theme "Empowered Women Empower Women."

Adding to the celebration, students presented an engaging role-play, "A3: Aware, Arise, Act - Change for the Changemakers," highlighting key challenges faced by women and advocating for active change. This inspiring day served as a reminder of the importance of gender equality and strengthened the community's dedication to women's empowerment.









#### Vidva Vahini - A Stream of Divine Wisdom, March 03. 2024

The first-year post-graduate students presented a powerful drama titled "Vidya Vahini" (Stream of Divine Wisdom) at Sai Kulwant Hall, focusing on the conflict between ambition and social responsibility. Set in a contemporary Indian village, the play follows the story of a school owner and his son, a businessman struggling to fund his first major project. The son's financial difficulties led him to consider mortgaging the land on which the school stands, highlighting the tension between personal success and community welfare. The play prompts reflection on where the true value lies-personal gain or contributing to society's betterment.

Vidva Vahini challenges viewers to reconsider their priorities, emphasizing the importance of social responsibility in a world where ambition often overshadows community needs. It sparked meaningful conversations about the sacrifices required to uphold values and the lasting impact individuals can have on society.

#### #MeraPehlaVoteDeshKeLiye2024 Campaign at SSSIHL, February 28 - March 6, 2024

Sri Sathya Sai Institute of Higher Learning (SSSIHL), organized a two-week campaign as part of the "Mera Pehla Vote" 2024 initiative by the Ministry of Education and Ministry of Information and Broadcasting. The campaign, held from February 28 to March 6, 2024, aimed to raise voter awareness, especially for first-time voters. The 14th National Voters Day was observed on January 25, 2024, with participation from students across various faculties. Activities included debates, quizzes, blog posts, voter pledges, and rallies. A total of 500 students participated in the pledge ceremony, with many actively contributing to the mygov.in platform. Students published blog posts and took part in quizzes and debates.

#### **Key highlights:**

- Blog posts: 5 students received 100 points for their contributions on *mygov.in*: Anika Hingne (III B.A.), Samragi Gurung (II B.A.), Sai Saranya (II B.A.), Smahee (II B.Com.) and Amukta Malyada (I B.A.).
- Quiz achievers: 100 students participated in this event. 4 students Swecha Rai (III B.A.), Harshita Bataraju (III B.A.), Samragi Gurung (II BA) G.Sai Saranya (II B.A.) were recognized at the Enthusiast Level 1
- Voter Pledge: On March 5, 2024, 500 students pledged their first vote, led by Ms. Astha Karikdoli Darjee (II B.A.).
- Debates: Students discussed "The Role of Indian Youth in Shaping Indian Democracy," emphasizing the importance of youth involvement in the electoral process.

The campaign successfully raised awareness about the importance of voting, fostering enthusiasm among first-time voters

#### 15th Foundation Day Celebrations of the Muddenahalli Campus, February 14, 2024

The Muddenahalli Campus marked its 15th Foundation Day on February 14, 2024, with a vibrant procession featuring the palanquin of Bhagawan Sri Sathya Sai Baba, which journeyed through the hostel and institute premises. The day's events began with bhajans held in front of the Rama statue, followed by a short play that highlighted the significance of the campus and a musical program, creating a spiritually enriching experience for all attendees. In conjunction with the celebration, the Eco Einstein Club organized an event titled "Jog for Junk," where participants jogged around the campus to collect plastic waste. This initiative not only promoted environmental awareness but also emphasized the importance of sustainability, as the collected waste was segregated for proper disposal and recycling.

#### Retreat Day, January 27, 2024

In keeping with tradition, students gathered to reminisce about their experiences from the weeks of preparation, practice, and rehearsals for the SSSIHL Annual Sports and Cultural Meet 2024, held on January 11, 2024, at the Sri Sathya Sai Hill View Stadium in Prasanthi Nilayam. The retreat, which took place after the sports and cultural meet, featured displays of all the sets created by students. Participants shared their experiences from the event and expressed gratitude to everyone who contributed to its success. This gathering provided a reflective and celebratory conclusion to the activities, fostering a sense of unity and camaraderie among students, faculty, and staff.

#### 75th Republic Day Celebrations, January 26, 2024

On January 26, 1950, India officially became a republic with the enactment of its constitution. The 75th Republic Day was joyously observed across our campuses, serving as a poignant reminder of the visionary contributions of our constitution's framers, the democratic principles that define our nation, and our enduring commitment to the well-being of our country. The national flag was proudly unfurled at all our campuses.

At the **Prasanthi Nilayam campus**, Professor B Raghavendra Prasad, the Vice-Chancellor, unfurled the national flag and addressed students on the significance of the day. A stirring performance by the brass band and the Department of Music filled the atmosphere with patriotic fervor.

Group Captian (Retd.) K R Narayana, an esteemed alumnus who served the Indian Air Force for over three decades, presided over the festivities at the **Muddenahalli campus**. After unfurling the national flag, he delivered a speech to the students on the theme "Bharath: The Mother of Democracy."

Celebrations at the **Brindavan campus** were graced by Colonel Arun Bhagra, a retired AGM from SC Railways with over three decades of service in the Territorial Army (Madras Sappers). He shared his thoughts after unfurling the national flag, highlighting how Bhagawan Baba had inspired him to serve the nation. Sri Pulkit Khare, a third-year B.Com (Hons) student, also addressed the gathering.





At the **Anantapur campus**, Professor N Srividya, the Campus Director, unfurled the national flag, followed by the National Anthem and a parade. The chief guest, Ms. Ridhi Bhalla, an alumna of SSSIHL serving in the Indian Armed Forces, encouraged students to excel and take pride in their Indian identity.

The festivities included the presentation of appreciation mementos to the Hockey teams (National Sports Day Event), acknowledgment of Ms. K Hemasri for excellence in Archery, and recognition of Ms. D Akshitha Parwati, the runner-up in the State Level Tennis competition. Additionally, gifts were distributed to the contingent staff for their contributions to the Annual Sports & Cultural Meet 2024.

#### National Voters' Day, January 25, 2024

In observance of the 14th National Voters' Day, the Political Science students and staff from the Department of Humanities and Social Sciences organized a voter awareness campaign. The event featured a skit titled *Nothing Like Voting, I Vote for Sure*, aimed at encouraging voter participation. An official video released by the Election Commission of India was screened, and the process for obtaining an E-Electronic Photo Identity Card was demonstrated. The National Voters' Pledge was administered, with enthusiastic participation from students and staff, especially targeting first-time voters to raise awareness about their electoral rights and responsibilities.

#### Christmas Celebration, December 25, 2023

As a tradition, students from all the campuses organised multifaith prayers, sang carols, and also enacted short plays from the Life of Jesus. Some of the students prepared a manger depicting the birth of baby Jesus and baked special Cakes to celebrate the occasion. Christmas carols reverberated throughout the day on the campus with a special dinner for all. The students at the Prasanthi Nilayam campus had the opportunity to participate in the celebrations at the Sai Kulwant Hall and present Carols and other songs creating a magical atmosphere. Few students of the Muddenahalli campus dressed as Santa Claus visited a nearby village of Byranakanahalli and distributed sweets to the village children and rice to all the residents.

#### 98th Birthday Celebrations of Revered Founder Chancellor, Sri Sathya Sai Baba, November 23, 2023

The auspicious occasion of the 98th Birthday of our Revered Founder Chancellor, Bhagawan Sri Sathya Sai Baba was celebrated with great joy at Sai Kulwant Hall. The morning proceedings on 23rd November, began with a musical offering by the Prasanthi Bhajan Group, blending nostalgic songs with new melodies that invoked the essence of love for Swami. The celebrations continued with heartfelt offerings of birthday cards and cakes from students, devotees, and institutions, accompanied by melodious performances from student bands. The evening featured two traditional events: the Golden Chariot Procession and the Jhoola Mahotsavam (swing festival). As devotees filled the hall with heartfelt prayers, the revered Jhoola Sai, adorned in blue, swayed gently as Ms. Kaushiki Chakraborty took the stage, offering a musical tribute that began with Guru Vandana. She expressed her humility and gratitude, considering it a blessed opportunity. The celebrations also included performances by renowned artist Rajhesh Vaidhya, a celebrated Veena exponent, who provided an instrumental offering during the evening session, and Carnatic vocalist Sivasri Skandaprasad,

# Sangeet Santruptaya Sai - A Musical Offering, November 16, 2023

This evening, the talented musicians of the Department of Performing Arts, Prasanthi Nilayam, along with their dedicated faculty, presented a captivating musical concert titled Sangeet *Santruptaya* Sai at the Sanctum Sanctorum. The performance began with the soulful rendition of *Adideva Siva Shankara*, leading into a carefully curated selection of enchanting melodies, *Bantutheeri Kolu* and *Narayana Rama Ramana*, followed by a moving qawwali number, *Mere Moula Mere Aaqa Mere Sai Mere Baba*. The concert culminated in an exhilarating performance of *Brova Baramma RaghuRama*, leaving all attendees immersed in the divine experience.

#### Kumara Purnima, October 28, 2023

Kumara Purnima, observed on the full moon day in October-November, marks the birthday of Goddess Lakshmi, the deity of wealth. On this day, divine Hindu pairs such as Radha-Krishna, Shiva-Parvati, and Lakshmi-Narayana are worshiped. A group of students honored the occasion by offering flowers and *kheer* (a traditional sweet dish made of rice and milk) near the Tulsi Mantapa, conducting the rituals in a deeply traditional manner.

#### Dussehra Celebrations, October 18-24, 2023

The students and staff of SSSIHL were blessed to participate in the grand Dussehra celebrations at Sai Kulwant Hall and Poornachandra Auditorium. Central to the festivities was the *Veda Purusha Saptaha Jnana Yajna*, an integral part of Prasanthi Nilayam's tradition since its inception in 1962, aimed at fostering world peace. The 2023 Dasara Jnana Saptaha Yajna, held from October 18th onwards concluded on October 24th with the sacred Maha *Poornahuthi* offering at Poornachandra Auditorium.

Throughout the seven days, students also participated in the *Prasanthi Vidwan Mahasabha* held in the evenings and witnessed the *Ayudha Puja* on the 8th day. The week featured devotional offerings like Bhava *Tharangini, Nada Brahmamayi* singing praises of the Divine Mother and Lord Sri Ramachandra, and *Devi Tubhyam Namaha*, a compilation of devotional songs in multiple languages by the students.

The Prasanthi Dance Group presented a thematic musical drama titled *Jantunam Nara Janama Durlabham*, reflecting on the profound truth that human birth is rare and precious, a message often emphasized by Bhagawan.

The festivities culminated on Vijaya Dasami with a captivating instrumental performance by Mahesh Raghvan and his team, marking the grand conclusion of the week-long Prasanthi Dasara celebrations.



#### Kolu Celebrations, October 17, 2023

Kolu, also known as *Bommai Kolu, Gombe Habba, or Bommala Koluvu*, is celebrated during Navratri to symbolize the triumph of good over evil. The Kolu dolls, representing various deities and divine figures, were beautifully arranged on a step-like display and adorned with decorations, creating a devotional atmosphere for worship and celebration.

#### Ganesh Chaturthi Celebrations, September 19-21, 2023

The Ganesh Chaturthi celebrations at the hostels were a threeday event filled with devotion and cultural offerings, beginning on September 19, 2023. The festivities included Ganesha bhajans, creating an atmosphere of spirituality, and culminated on September 21 with the *Nimajjanam*, or immersion. Students displayed their dedication, teamwork, and creativity by pulling elaborately decorated chariots to Sai Kulwant Hall, accompanied by devotional bhajans and prayers.

As the chariots reached the divine Sannidhi of Bhagawan Sri Sathya Sai Baba, they were offered as a symbol of collective love and devotion. A commentary team provided insights into each chariot's significance, enriching the experience. The celebrations concluded with the immersion of the Ganesha idols, marking the end of the vibrant and spiritually uplifting event.

#### Krishna Janmashtami Celebrations, September 07, 2023

Lord Krishna, ever in a state of divine bliss, continues to bestow joy upon his devotees. His life and teachings illuminate the path of love, guiding humanity toward the dispelling of darkness, the removal of troubles, and the attainment of supreme wisdom.

At Sai Kulwant Hall, the Krishna Janmashtami festivities began with a captivating procession of cows, symbolizing the pastoral life deeply connected with Lord Krishna. Students, dressed in vibrant costumes, marched alongside the cows, representing the spiritual bond between the Lord and the sacred animal. The rhythmic beats and serene atmosphere of Sai Kulwant Hall added a divine grace to the event, setting the stage for the day's celebrations.

As the day progressed, the traditional Dahi Handi (pot-breaking) ritual, a beloved aspect of Janmashtami, brought energy and excitement to the hostels. Filled with enthusiasm, students eagerly participated, attempting to break the pot of butter, a symbol of Lord Krishna's love for the creamy treat from his childhood.

#### Teacher's Day: Gurunaam Guru, September 05, 2023

In celebration of Teacher's Day, the students of the B.Ed. department presented a thought-provoking drama titled *Gurunaam Guru*, meaning "Teacher of Teachers." The performance showcased the profound influence of teachers in shaping not only a student's academic journey but also their overall personal growth. It emphasized the pivotal role teachers play as guides and mentors, helping students overcome life's obstacles while leading them on the path to self-discovery and self-realization.





#### Sai Nadh Krishnarpanam - A Musical Offering, September 4, 2023

In preparation for the holy festival of Sri Krishna Janmashtami on September 7th, students from the Department of Performing Arts, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam Campus, offered a soulful musical presentation titled 'Sai Nadh Krishnarpanam' this evening in the Divine Omni-Presence at Prasanthi Nilayam. The offering featured a harmonious blend of musical traditions, including a Carnatic Kriti, a Hindustani Bandish, a graceful Veena recital, and an energetic Tabla ensemble. The performances also included compositions by revered saints Sri Annamacharya and Sri Swathi Thirunal, enriching the devotional ambiance.

#### Onam Celebrations, August 29, 2023

The vibrant spirit of Onam was celebrated with grandeur at SSSIHL, seamlessly blending tradition and cultural exchange. The hostels came alive with festive energy as students, especially those from Kerala, took the lead in decorating the premises with colorful rangoli patterns. A special Onam feast offering a culinary journey through the rich flavors of their homeland was served. The air resonated with the melodious strains of Onam songs, amplifying the festive atmosphere and filling everyone with a sense of shared joy and cultural appreciation. In the evening, students attended a special presentation by devotees from Kerala at the Sai Kulwant Hall, which highlighted the deeper spiritual significance of Onam, as elucidated by Bhagawan offering everyone a profound understanding of the festival, going beyond its vibrant cultural expressions. These joyous activities foster a strong sense of community spirit, enabling students to celebrate their heritage while learning to appreciate and embrace the traditions of their peers.

#### Varalakshmi Pooja Celebrations, August 25, 2023

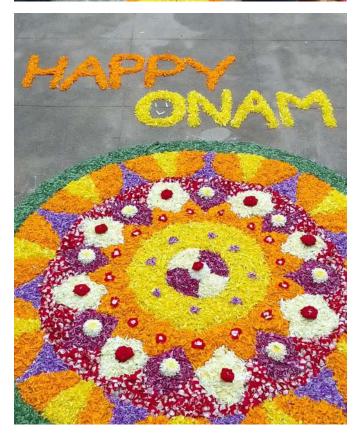
The morning of Varalakshmi Puja began with the melodious tunes of the *Naadaswaram*, setting a serene atmosphere for the day. Dressed in vibrant sarees, the students offered flower petals, kumkum, haldi, and *akshatas* to Devi, praying for the prosperity and well-being of all. Prof. M. Praphulla narrated the Varalakshmi *Vrata Katha*, highlighting the significance of the Puja. The day's celebrations left everyone in a joyous and spiritually uplifted mood.

#### Anantapur Campus Celebrates College Day with Alumni, August 22, 2023

On July 22, 1968, Bhagawan Sri Sathya Sai Baba founded the Sri Sathya Sai Arts and Science College at Anantapur. To celebrate this special day each year by welcoming back the Silver Jubilee alumni batch. As part of this tradition, the 1995-98 batch returned to campus on August 22, 2023, to express their gratitude to Bhagawan and relive cherished memories. The alumni organized a 50-minute program that began with an invocatory Vedam chant, followed by talks, musical renditions, a classical dance, and a skit performed by their children. The event concluded with a panel discussion and the distribution of gifts to current students and teachers, fostering a spirit of connection across generations.









#### 76 Years of Indian Independence Celebrated At SSSIHL, 15 August 2023

15 August 2023 marks the 77th Independence Day of free India. It also marked the celebration of 76 glorious years of freedom. Reminiscing the struggle and sacrifices made by Mother India's brave and noble children, the students and staff of Sri Sathya Sai Institute of Higher Learning celebrated this momentous day with great pride in our hearts, across all four campuses. Here is a detailed report on the celebrations including the activities conducted by the students to commemorate all AKAM campaigns like *Partition Horrors Remembrance Day, Meri Maati Mera Desh*, and *Har Ghar Tiranga*.

The students and staff of the **Prasanthi Nilayam campus** gathered at the Institute to celebrate the 77th Independence Day. At 8 a.m., Director Dr. R. Raghunatha Sarma hoisted the national flag, and both staff and students saluted it proudly before singing the National Anthem. In his address, the Director emphasized the importance of remembering the sacrifices made for freedom, noting the 13,500 martyrs recorded in the Dictionary of Martyrs as only a fraction of those who gave their lives for the nation. He highlighted the need for continuous vigilance in today's world, citing modern threats such as cyber-attacks, disinformation, and economic coercion that silently impact national security and the economy. The Director spoke about India's progress towards becoming a developed nation and elaborated on the true meaning of 'Swantantra.' He recalled Bhagawan's warnings about the dangers of disunity and quoted him: "Purity leads to true unity, and Unity leads to divinity." The speech concluded with a stirring patriotic song performed by the students of the Department of Performing Arts, infusing the atmosphere with nationalistic pride and fervor.

# The Quest for True Freedom - A Short Play on the Life of Shri Aurobindo Ghosh

On the occasion of the 77th Independence Day, postgraduate students presented a compelling play titled "The Quest for True Freedom" in Sai Kulwant Hall, Prasanthi Nilayam. The performance commemorated the 150th anniversary of Shri Aurobindo Ghosh's birth, showcasing the life of this mystic patriot whose actions exemplified the integration of patriotism and spirituality.

The play explored the true meaning of freedom through pivotal moments from Shri Aurobindo's life, serving as an inspiration to emulate his ideals, especially in a time when divisions based on caste, creed, and religion were prevalent. It called for unity and urged the youth to harness their education for the nation's service while emphasizing the importance of spiritual discipline combined with patriotism as a pathway to true freedom. The performance concluded with a 'one-India' theme song celebrating India's progress, followed by the National Anthem.

At the **Muddenahalli campus**, the 77th Independence Day celebrations were graced by Chief Guest Colonel T. V. Gopala Krishnan (Ret.). He was escorted to the center stage by senior students and hoisted the national flag, after which everyone present sang the National Anthem. Colonel Gopala Krishnan emphasized the importance of remembering the sacrifices made by freedom fighters and soldiers. The event included stu-

dents singing patriotic songs celebrating India's glory, followed by a sapling-planting ceremony on campus.

The **Brindavan campus** also celebrated with revered Chief Guest Group Captain Kashinath Damodar Bhat, who hoisted the national flag. After the salute, the campus brass band played the National Anthem. The Director, Prof. N. Sivakumar, welcomed the audience and marked the significance of the day. Sri Sai Shivam Shah from III B.Com. (H) delivered a speech in Hindi, followed by remarks from the Chief Guest. He encouraged students to maintain high standards of quality, effectively utilize technology, and serve the country with sincerity.

#### Kartavya - Writing for Freedom: A Short Play

A short play was presented by the third-year students entitled, "Kartavya - Writing for Freedom" at the Brindavan campus. The drama revolved around an imaginary freedom fighter named Mahendra who inspired the country through his writings and defending freedom fighters in court cases.

The students and staff of the **Anantapur women's campus** assembled at the grounds to celebrate the 77th Independence Day. At 8 a.m., the Director of the Campus Prof. (Mrs.) M Praphulla hoisted the national flag. The staff and students with great pride and joy saluted the flag, which was followed by the National Anthem and the Pledge. A marchpast by all the students represented by their houses - Sathya, Dharma, Shanti, and Prema was then led by their house commander. The march past was followed by speeches in English, Hindi, Telugu, and Sanskrit languages, over the theme Azadi Ka Amrit Mahotsav. The cultural programs included songs, poems, and dance performances, based on patriotism.

On this occasion, we fondly remember the words of our founder Chancellor Bhagawan Sri Sathya Sai Baba, who said "*It is the patriotism and spirit of sacrifice enshrined in the hearts of the people and their spiritual outlook that will protect the nation*". Overall, the celebrations across campuses highlighted the themes of patriotism, unity, and the importance of serving the nation, honoring the sacrifices of past heroes while inspiring the youth for a brighter future.

#### Meri Maati Mera Desh - Maati Ko Naman, Veeron Ka Vandan

As part of the *Meri Maati Mera Desh campaign*, all the students and staff across our campuses took the pledge to serve the nation and contribute positively to society. The students held a fistful of soil as they took the Panch Pran Pledge. At the Anantapur Women's campus, a plantation programme was organised under the theme "Meri Maati Mera Desh". 99 saplings of different types of fruits and shade-giving trees donated by Mr. A.G. Anil Kumar, Founder of, the Green Army organization, Anantapur, were planted by faculty, students, and non-teaching staff at various locations within the campus. The students were very thrilled to know that they would be the caretakers of the sapling they planted for their entire duration of stay at the campus. As a part of the 'Veeron Ka Vandan' activity, students dressed as various unsung heroes took centre stage sharing their contributions to the freedom struggle.





























#### Har Ghar Tiranga

The Har Ghar Tiranga program was celebrated with patriotic fervor by the students at Sri Sathya Sai Institute of Higher Learning. The students gathered together on the eve of Independence Day and sang patriotic songs while holding the National flag. The hostels were adorned with multiple Tirangas and each person had a small tiny flag replica with them. Students and staff were encouraged to come and take photographs both in groups and individually. Various patriotic songs were played at the Hostel campuses.

#### **Partition Horrors Remembrance Day**

The students and staff of the Sri Sathya Sai Institute of Higher Learning observed 14 August 2023 as Partition Horrors Remembrance Day, across all its campuses, reflecting and recounting the sacrifices of our elders who were rudely displaced from their homes, and subject to violence on religious grounds.

Sri Prasad RLK, Assistant Professor, DMC spoke on the occasion giving the students a peek into the sequence of events that took place that led to the partition and the role of our leaders. He spoke about the trauma caused by the violence to men, women, and children alike. Those who survived were devastated as they were displaced from their families staying in the current day Pakistan and had lost their loved ones to the violence. The students got a perspective into the impact it had on the lives of millions of people uprooted from their homes for no fault of their own, and the excruciating pain experienced by them seeing their families being torn apart, exposed to violence of all kinds, surrounded only with hatred, fear, and barbarity of unimaginable proportions.

Selfishness, religious intolerance, lack of unity and brotherhood, and hearts devoid of love were to blame had led to one of the largest forced migrations the world has ever seen. The students were then shown the exhibits on the topic curated by ICHR & IGNCA. The session ended with the National Anthem. The activity helped sensitize them on various issues of society and life, reiterating how love, unity, and tolerance are the basis of peaceful co-existence.

We are reminded of a powerful message our Master and Beloved Founder Chancellor Bhagawan Sri Sathya Sai Baba gave the world when He said:

"Where there is righteousness in the heart, there will be beauty in character. Where there is beauty in character, there will be harmony in the home Where there is harmony in the home, there will be order in the nation Where there is order in the nation, there will be peace in the world."

#### G20 Janbhagidari Events, August 2023

As part of the G20 Janbhagidari initiatives, the Brindavan Campus hosted a series of insightful events in August 2023. On August 5th, Sri S.S. Naganand, a Member of the Sri Sathya Sai Central Trust, delivered a talk on the theme "*Vasudhaiva Kutumbakam*", emphasizing the G20's focus on global unity and cooperation. On August 11th, Dr. Vijay Kelkar, an eminent economist, and former Union Finance Secretary, addressed the students on the topic of "*Economic Development of India*". In addition to these talks, the campus also organized an online G20 quiz, student presentations, and a video showcasing a speech by the Prime Minister, all aimed at fostering awareness and engagement with the G20's objectives.

# National Students Paryavaran Competition (NSPC), July 01 - August 21, 2023

Twenty-one students from Sri Sathya Sai Institute of Higher Learning (SSSIHL) participated in the National Students Paryavaran Competition (NSPC), organized by the Ministry of Environment, Forest & Climate Change in collaboration with Paryavaran Sanrakshan Gatividhi, from July 1 to August 21, 2023. The program raised awareness about environmental conservation among students, encouraging them to actively address and mitigate environmental challenges through informed action and responsible attitudes.

# 52nd Anniversary of the Anantapur Campus, July 08, 2023

The Anantapur Campus celebrated its 52nd Anniversary with a spiritually enriching program. The event included a prayer, a recitation of the *Ganapati Atharvaseersham*, and the Laksharchana to invoke divine blessings. Dr. Rani P.L. gave a talk on the significance of the day and the Founder Chancellor's role in shaping the campus. A video on the 1968 foundation stone laying ceremony was shown to the students.

#### International Yoga Day, June 21, 2023

As part of the International Yoga Day 2023 celebrations, the Brindavan Campus organized an online program centered on the theme "Yoga for Fitness." Sri Anand Shrivastava, a Yoga instructor, led a demonstration of yoga asanas promoting physical well-being. Additionally, celebrations were held at the Sri Sathya Sai International Sports Centre, Prasanthi Nilayam, where students from various Sai educational institutions gathered to perform a series of yoga postures and formations. The event also highlighted the importance of integrating yoga into daily life, with insightful talks from Yoga instructors and faculty members.











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"Students! The future of the country, for good or ill depends on you. The older generation cannot reform the nation. Only a disciplined and well-educated younger generation can serve the nation well, as future leaders. Treat the whole world as a vast mansion. Strive for the wellbeing of all nations equally with Bharat. The Sri Sathya Sai Institute

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has been established to promote sacred ideals among students. Adhere to your principles and beliefs regardless of what others may say. Have the example of the Gopikas in mind. Their devotion to

Krishna was firm and unwavering.

Consider truth as your life breath. If you speak the truth and practice righteousness, you will attain the highest state. Truth and Righteousness are interrelated. Together they constitute humanness. Bear in mind the glorious example of Harishchandra, who sacrificed everything for the sake of truth. Adhere to truth in earning a living or in experiencing anything in life."

Excerpt from Ch. 27, Sri Sathya Sai Speaks (Vol. 26), 12th Convocation Address, 22 Nov 1993

SRI SATHYA SAI BABA Revered Founder Chancellor, SSSIHL



# The End of Knowledge is Freedom.

SRI SATHYA SAI BABA