

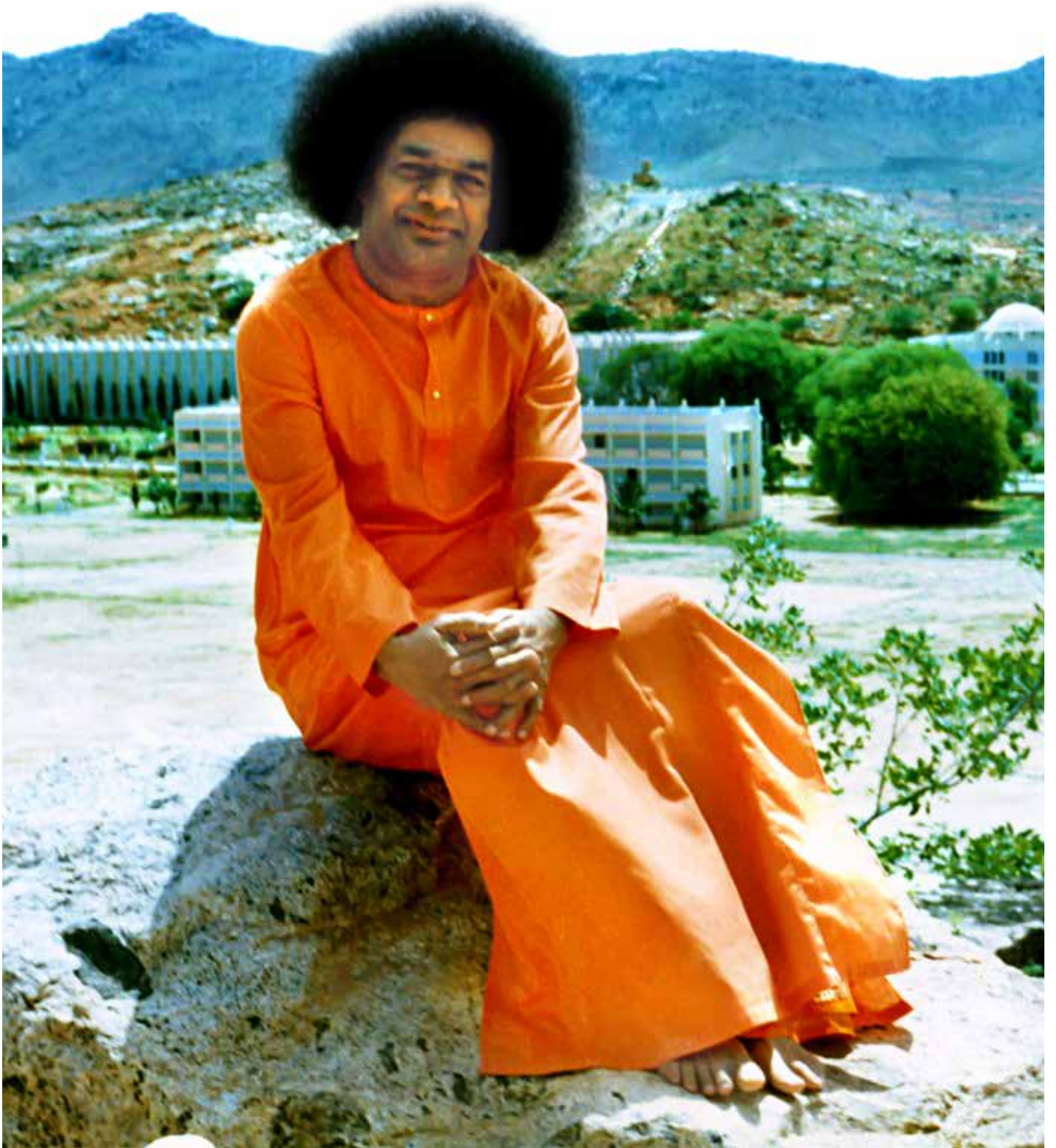


Annual Report **2015**



Dedicated to our
Revered Founder Chancellor

—  —
SSSIHL
2015



Foreword

I am particularly delighted to script the introductory remarks to this year's annual report, the release of which coincides with the glorious event of the 90th Birthday celebrations of our Revered Founder Chancellor, Bhagawan Sri Sathya Sai Baba. All of us at the university are perpetually driven by His mission to make unparalleled contributions to society through the pursuit of providing values-based free education and need-based research. In order to achieve this, we admit students with high levels of intellectual potential irrespective of social, religious and financial considerations; and subsequently, our talented faculty supports them through their academic journey. The extent of academic and non-academic support that is extended to students at SSSIHL is unequalled.

In the beginning of 2015, roughly two months into my term as Vice-Chancellor, in consultation with the Directors of Campuses, Faculty Deans and Heads of Departments, a tangible planning process that aims at identifying and establishing the priorities that would enable us to make wise choices for effective use of our available resources in the years to come was set in motion. This resulted in the consolidation of the Master of Business Administration (MBA) program, making it uniformly available across all campuses. This facilitates greater and easier movement of faculty from one campus to another, which in turn benefits the students immensely.

Subsequently, we developed a much more specific and strategic plan in an effort to bring about more visibility to the current academic programs. Towards this end, it was strongly felt that there was a pressing need to consolidate some of the programs in order to keep pace with other reputed universities- not just in rapidly growing areas such as Science and Technology, but also in Management and Humanities. The first step taken towards this was to make our Ph.D. programme more vibrant and attractive without sacrificing quality.

Interdisciplinary research is an essential component of innovation. It brings together different minds across various disciplines and emerging areas to converge and work together to make a greater impact on any program. This interdisciplinary thinking culminated in starting a new Postgraduate programme- M.Sc. in Materials Science. It will help cater to the requirements of multifunctional materials—with underlying science and technology—for a variety of industries. Postgraduate programmes in Computational Sciences and Weather Patterning are also under active consideration.

The university continues to invest in providing the best possible infrastructure and facilities for students and faculty. An advanced Research Centre to meet the aspirations of both the faculty and students cutting across various disciplines is being established. The Sri Sathya Sai Advanced Centre for Research and Development will house the latest equipment to facilitate need-based research in the areas of Materials Science, Physics, Chemistry, Biosciences, Food Sciences, Mathematics, Management and Humanities for years to come. It is expected to be operational in 2016.

As envisaged by our beloved Bhagawan, our contribution to society is reinforced by our research excellence. The research output at the university has seen a significant rise in the past few years. The number of research scholars has increased by 57% in the past five years. A good example of how SSSIHL research makes a difference is reflected in the launch of new research collaborations in the sciences between the university and external institutions such as the Food and Drug Administration (FDA), USA in areas such as rapid detection of endemic diseases, diabetic retinopathy, development of a cost effective multimodal microscope, regenerative medicines and tissue engineering, as well as collaborations on multiple research projects with Sri Sathya Sai Institute of Higher Medical Sciences (SSSIHMS). Funding for

research from DRDO, ISRO, DAE, DST, UGC, etc. is testimony to the rise in the quality of research at the institute.

I am indeed very proud to note that our faculty and research scholars published 110 journal papers and 119 conference papers in national and international journals of high repute during the academic year 2014/15, reflecting their perseverance towards achieving the goals set by our beloved Swami.

Each year, we invite distinguished guest speakers/visiting faculty from all over the globe for the benefit of our student community. I am proud to note that over 25% of eligible postgraduate students were successful in national level examinations such as GATE/JEST, CSIR-UGC NET, etc. in 2014/15.

Our admissions policy reflects the quality we look forward to in our academics. The acceptance rates at the university continue to be excellent. For entry in 2015, only 22% of undergraduate applicants and 21% of applicants to postgraduate and professional programmes were admitted. The student strength has increased by 18% over the last five years. It now stands at 1366. During the same period, the student-teacher ratio has improved from 10:1 to 8:1. We keep adding to the talent pool of our faculty every year. A total of fifteen new faculty members have been appointed during the academic year 2014/15.

The university administration takes this opportunity to thank the Sri Sathya Sai Central Trust for its active and effective support to the university. We humbly pray for Bhagawan's blessings so that we may continue to demonstrate sustained progress towards the intended tasks as envisioned by Him.



Prof. K B R Varma
Vice-Chancellor

Annual Report 2015

1 June 2014 to 31 May 2015

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Introduction to SSSIHL

Sri Sathya Sai Institute of Higher Learning (SSSIHL), Prasanthi Nilayam, Andhra Pradesh, India, is a visible manifestation of Bhagawan Sri Sathya Sai Baba's vision of education for human transformation.

The university hosts over 1300 undergraduate, postgraduate and professional programme students across four campuses:

For women students:

- o Anantapur Campus at Anantapur, Andhra Pradesh

For men students:

- o Prasanthi Nilayam Campus, at Puttaparthi, Andhra Pradesh
- o Brindavan Campus, at Whitefield, Bangalore, Karnataka
- o Muddenahalli Campus at Muddenahalli, near Chickaballapur, Karnataka

The university has a merit-based open admissions policy for all, irrespective of income, religion or region.

SSSIHL provides free education to students in all programmes of study. This includes waiver of all fees- tuition, examinations, laboratory, library, sports and medical.

Programmes offered include undergraduate, postgraduate, professional and research.

A Modern Gurukula

Sri Sathya Sai Institute of Higher Learning was founded to inculcate ethical and moral values in students. These ethics and morals form the undercurrent of every subject taught at the university. Here, the development of a student's character is just as important as imparting knowledge.

This holistic development of students can only be possible in an environment that encourages the development of the student's mind, body and spirit.

To facilitate this, the university has a compulsory residential policy for all students. The environment is similar to the ancient Indian *gurukula* system of education, in a modern context. Teachers and students live and grow together in an atmosphere of mutual trust and unity.

Most students typically spend between two to five years pursuing an education at SSSIHL. As a result, what differentiates them from graduates of other universities is the transformation of their hearts, not just the training of their minds.

Residential Character

The compulsory residential system is an essential ingredient for the university's Values-based Integral Education to achieve its objective of transformation. This is where the concept of the modern *gurukula* really comes to the

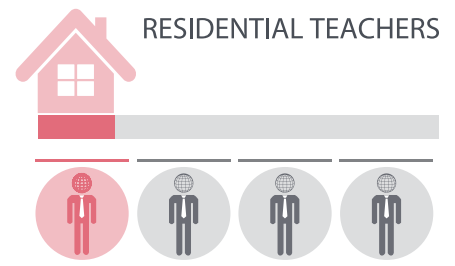
fore. In fact, Bhagawan Baba Himself designed the entire system and its activities, right down to the daily routine of students!

Residential Teachers

Residential teachers voluntarily stay with students at the hostel. They choose this responsibility in addition to their academic and administrative workload. Like students, they also share rooms with typically two teachers in a room.

They perform three fundamental tasks:

- o Ensure the all-round welfare of students
- o Discharge specific duties for the upkeep of the hostel daily routine and general discipline
- o Facilitate the smooth functioning of the hostel Self Reliance departments



1 in **4** teachers are residential
(Stay with the students in the hostel)



Students! You are the beneficiaries of totally free education at the Sai Institute. The gratitude you can show to the Institute is by your behaviour, as women and men of good character. Never be ungrateful to those who have been good to you. There is no greater sin than that.

Sri Sathya Sai Baba
Revered Founder Chancellor, SSSIHL

Values-based Integral Education

In the words of Bhagawan Sri Sathya Sai Baba, Revered Founder Chancellor, SSSIHL:

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.

Bhagawan Baba has designed the system of Sri Sathya Sai Values-based Integral Education in such a manner that between the time an 18-year old student joins the university and when she or he graduates (at the age of 21 or 23) there is a deep *inner* transformation that takes place. This concept is very unique at the university level.

The Process

The diagram on the right forms the basis of the system of Values-based Integral Education at SSSIHL.

The base is the concept of a modern *gurukula* that sustains all relationships and activities at SSSIHL. It is responsible for creating and sustaining the congenial environment necessary for the teacher-student interaction to grow and develop.

Adherence to discipline and appropriate behaviour are the two important aspects that encompass all interactions.

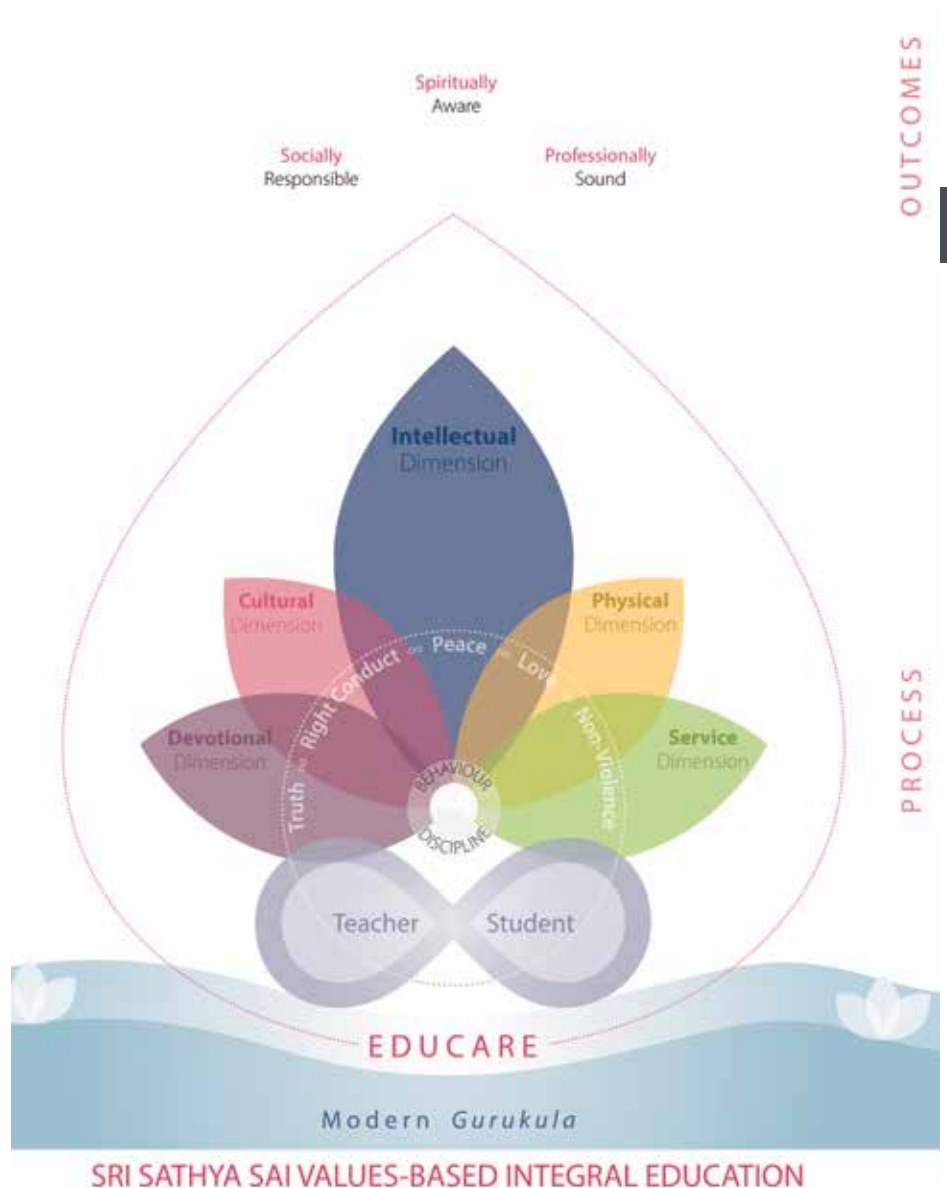
The five human values of Truth, Right Conduct, Peace, Love and Non-violence form the undercurrent of all the dimensions of integral education.

These dimensions are: Intellectual, Physical, Cultural, Devotional and Service. The key activities for each of these dimensions form the basis of most of the time that students spend at SSSIHL. (See page 13 for further information).

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

- o Spiritually aware
- o Socially responsible and
- o Professionally sound

For further information, visit sssihl.edu.in



University Governance

Sri Sathya Sai Institute of Higher Learning (Deemed to be University) is an independent and self-governing institution. It 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 Sathya Sai Baba is the founder of these Trusts.

The Trust

The Sri Sathya Sai Institute of Higher Learning (Public Charitable Trust) was founded to foster the culture of India and promote in the students and teachers an awareness and understanding of the social needs of the country; with special focus to the needs of the rural population. It is aimed to inculcate in students a world perspective- an international outlook imbuing human values along with a spiritual and secular education. Its members for 2014/15 were:

- Sri Indulal H Shah, Former Chairman, SSS Seva Organisation
- Sri V Srinivasan, All India President, SSS Seva Organisation
- Justice A P Misra, Former Judge, Supreme Court of India
- Sri K Chakravarthi, Member-Secretary, Sri Sathya Sai Central Trust
- Sri T K K Bhagwath, Member, Sri Sathya Sai Central Trust
- Sri S S Naganand, Member, Sri Sathya Sai Central Trust
- Prof. S P Thyagarajan, Former Vice-Chancellor, University of Madras
- Sri R J Rathnakar, Member, Sri Sathya Sai Central Trust

The Principal Bodies

The administrative and academic functioning of the university is carried out by the following two principal bodies:

1. The Board of Management
2. The Academic Council

Board of Management

The Board of Management is the principal authority of the university, responsible for its general management and administration.

Its members for 2014/15 were:

- Prof. K B R Varma, Vice-Chancellor, SSSIHL (Chairman)
- Sri S S Naganand, Member, Sri Sathya Sai Central Trust Nominee, SSSIHL (Public Charitable Trust)
- Prof. K S Rangappa, Vice-Chancellor, University of Mysore, Karnataka
- Prof. Sujata Ramadorai, Professor of Mathematics, Tata Institute of Fundamental Research, Mumbai
- Prof. D Swaminadhan, Chairman, Dr. D Swaminadhan Research Foundation (DSRF)
- Dr. Mohan Kanda, Former Chief Secretary, Govt. of Andhra Pradesh (Nominee, MHRD, Govt. of India)
- Prof. Radhakrishnan Nair, Dean, Faculty of Management & Commerce, SSSIHL
- Prof. (Miss) Madhu Kapani, Dean, Faculty of Economics & Humanities, SSSIHL
- Prof. (Miss) Rajeshwari C Patel, Professor, Dept. of English Language & Literature, SSSIHL
- Prof. (Miss) Ch Radhakumari, Professor, Dept. of Management & Commerce, SSSIHL
- Dr. Naren Ramji, Registrar, SSSIHL (Secretary)

In 2014/15, the Board of Management met on 19 July 2014, 20 September 2014, 21 November 2014 and 21 February 2015.

Academic Council

The Academic Council is the principal academic body of the university. It has general control over and is responsible for the maintenance of standards of teaching, research and training, approval of syllabus, coordination of research activities, and examinations

and tests within the university. Its external members for 2014/15 were:

- Prof. V Nagaraja, Dept. of Molecular and Cell Biology, Indian Institute of Science, Bangalore
- Dr. (Mrs) Asna Urooj, Professor & Chairperson, Dept. of Food Science & Nutrition (Postgraduate), University of Mysore, Karnataka
- Prof. K A Suresh, Former Director and Scientist, Centre for Nano and Soft Matter Sciences, Bangalore
- Prof. Mewa Singh, Life-long Distinguished Professor, University of Mysore, Karnataka
- Prof. D Basavaiah, Department of Organic Chemistry, University of Hyderabad
- Prof. (Mrs.) Priya Nair Rajeev, Professor in Management, IIM Kozhikode, Kerala

The Academic Council met on 15 October 2014.

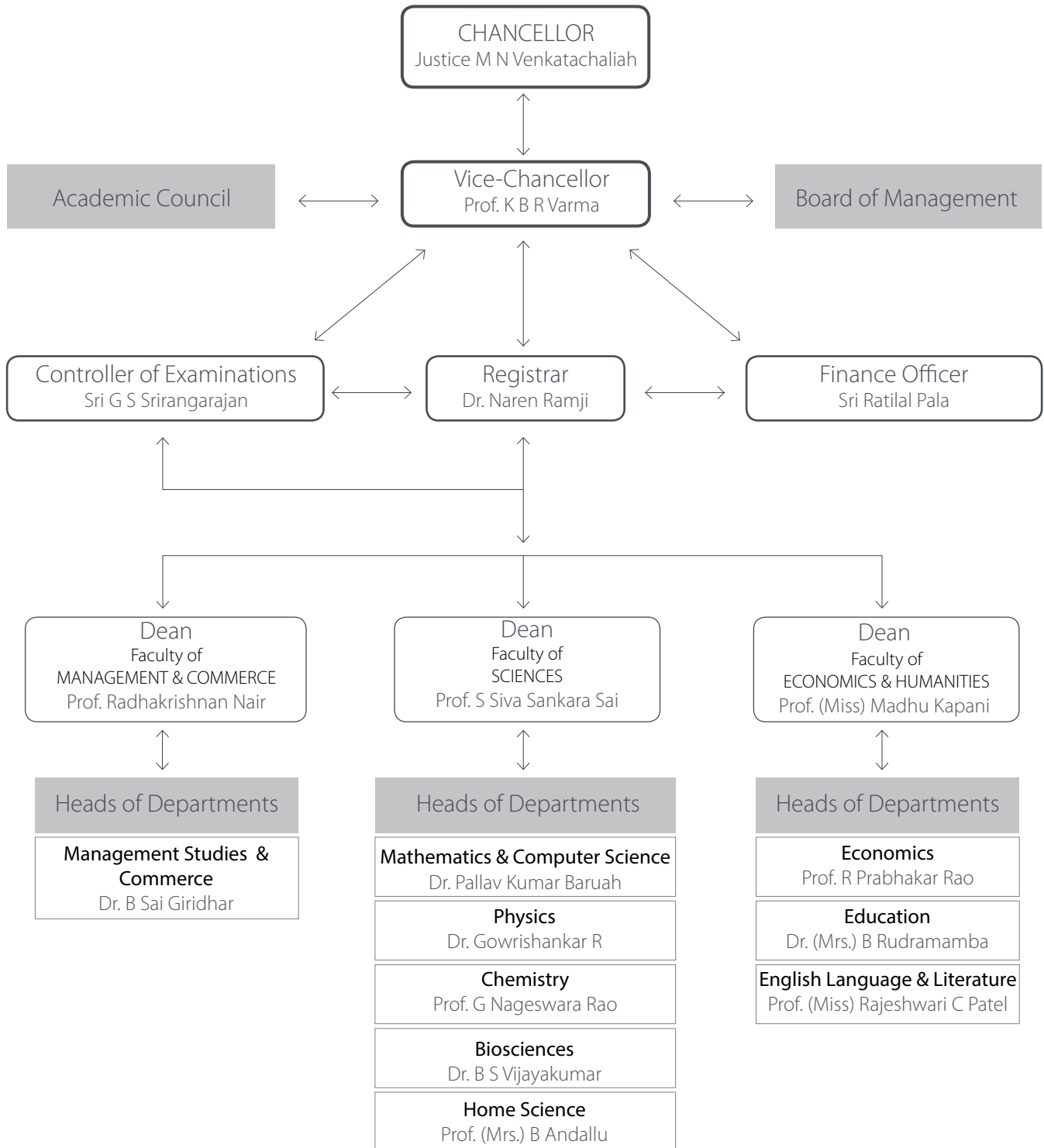
Important Committees

In addition to the principal bodies that govern the university, there are various committees that have been set up to ensure that academics and administration are in accordance with the high standards that SSSIHL has striven to consistently maintain. Some of these committees include:

- Boards of Studies
- Finance Committee
- Planning and Monitoring Board
- Internal Quality Assurance Cell
- Research Advisory Board
- Institutional Ethics Committee
- Institutional Biosafety Committee
- Building and Works Committee
- Campus-Hostel Management Committee
- Research Conferments Cell

University Structure

REVERED FOUNDER CHANCELLOR
BHAGAWAN SRI SATHYA SAI BABA



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

Overall Trends 2011 - 2015

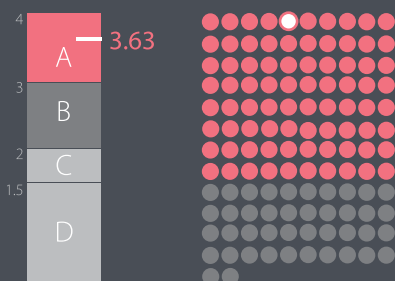
FIVE YEAR REVIEW

Sri Sathya Sai Institute of Higher Learning continues to dedicatedly pursue the vision of the Founder Chancellor in all areas.

The following few pages present an infographic overview of the trends and growth in all domains of the university between 2011 and 2015- from investment in infrastructure and teachers to research quality, from admissions numbers to the focus on integral education.

'A' GRADE NAAC RE-ACCREDITATION

(Jan 2011)



Cumulative Grade Point Average

SSSIHL ranks amongst the **top 10** universities re-accredited by NAAC under the new methodology

Source: National Assessment and Accreditation Council (NAAC), 11 May 2015

SSSIHL was assessed by NAAC in January 2011. The assessment criteria of NAAC includes: Curricular aspects, Teaching-learning and Evaluation, Research, Consultancy and Extension, Infrastructure and Learning Resources, Student support and Progression, Governance and Leadership, and Innovative practices.

SMALLER CLASS SIZE

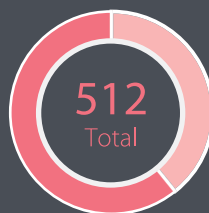
With less than nine pupils per class on average, the student-to-teacher ratio at SSSIHL favourably allows teachers to work one-on-one with students and give them more individual attention.

A lower student-to-teacher ratio also encourages greater student participation in class. In smaller groups, students feel more accountable and comfortable participating in class discussions- and this greater degree of accountability leads to better grades and higher levels of achievement.

As a result, SSSIHL students have consistently performed very well- both in internal and external/national tests and examinations.

ADMISSIONS

Undergraduate, Postgraduate and Professional programmes have seen a record number of applicants in the past five admissions cycles (2011 to 2015). On average, only 20% of all eligible (qualified) applicants get admitted across all programmes.

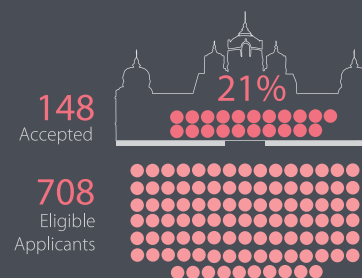
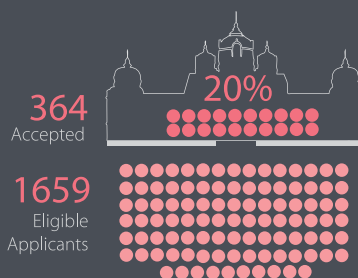


Only 1 out of every 5 applicants is admitted



ADMISSIONS 2014/15

ACCEPTANCE RATES 2014/15



Undergraduate
2014/15

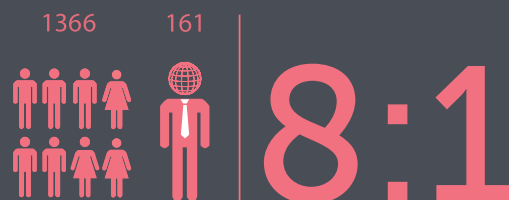
Postgraduate & Professional
2014/15

NEW ACADEMIC PROGRAMMES

The following new undergraduate, postgraduate and professional programmes have been added since 2011:

- o B.B.A. & B.C.A.
- o M.C.A.
- o Master of Education (M.Ed.)
- o M.B.A. for Women
- o M.Sc. in Materials Science

STUDENT - TEACHER RATIO

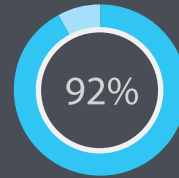


STUDENT PROFILE

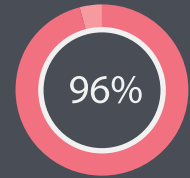
The student strength has steadily increased from 1159 in 2011 to 1366 in 2015. This 18% increase in five years has been supplemented by an increase in teaching staff by 33% (see next page).

Student performance in examinations- both internal and external, continues to be outstanding.

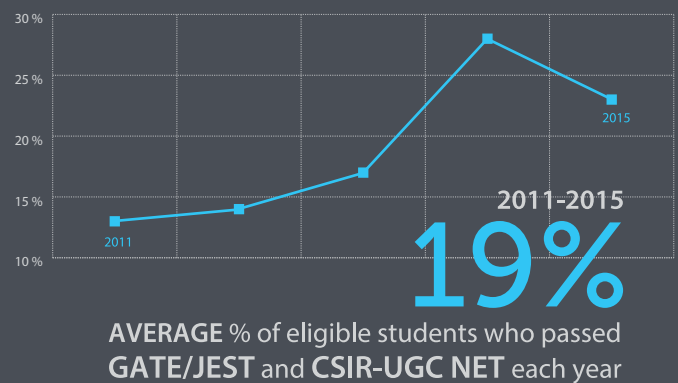
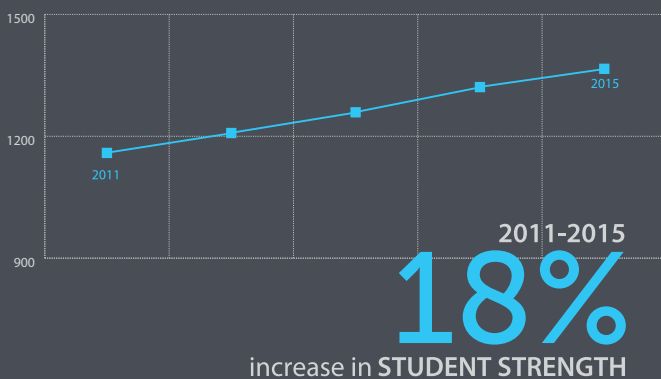
EXAMINATIONS PASS PERCENTAGE 2014/15



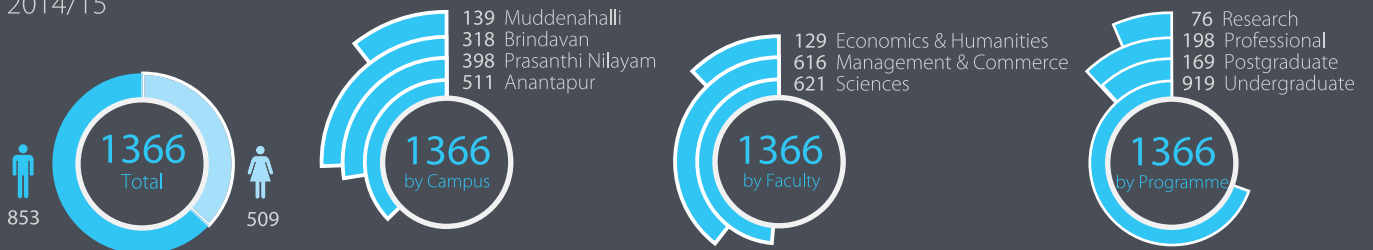
Undergraduate Programmes



Postgraduate & Professional Programmes



2014/15

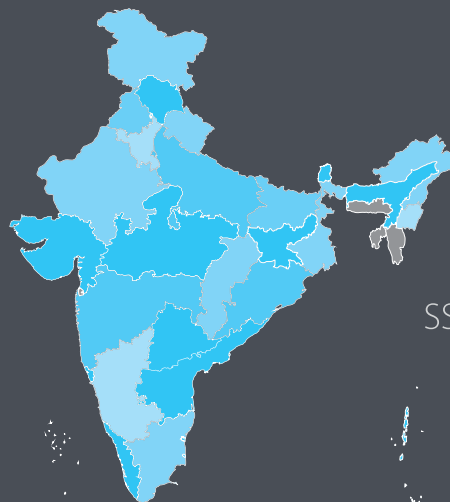


STUDENT DIVERSITY

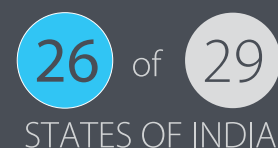
Students from all parts of the country are admitted to SSSIHL. This is a conscious effort made by the university.

When students with diverse cultures and varied economic backgrounds live in dormitory-styled accommodation with 10-14 students staying together in a room, the pan-Indian character of the university comes alive in the hostel.

Students learn to adjust with one another and live together in harmony; and this diversity contributes to a rich and stimulating learning environment that brings out the best in students.



SSSIHL students represent

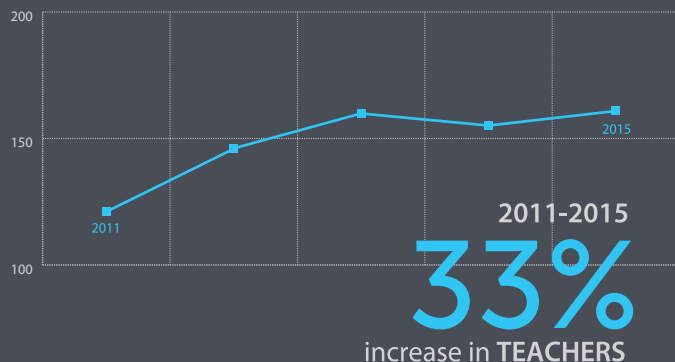


Overall Trends 2011 - 2015

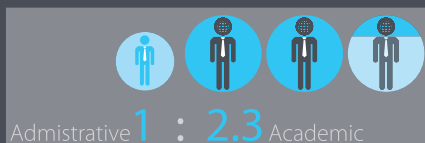
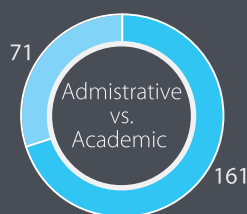
STAFF PROFILE

The university continues to attract high quality teachers. 97 of the current 161 teachers have a Ph.D. qualification and an additional 24 teachers are currently pursuing their doctoral research.

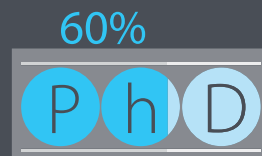
In the past five years, the faculty strength has increased by 33%. The administrative to academic staff ratio is 1:2.3, which is much lower than other Indian universities.



2014/15



- 25 Professor
- 34 Associate Professor
- 79 Asst. Professor
- 23 Others

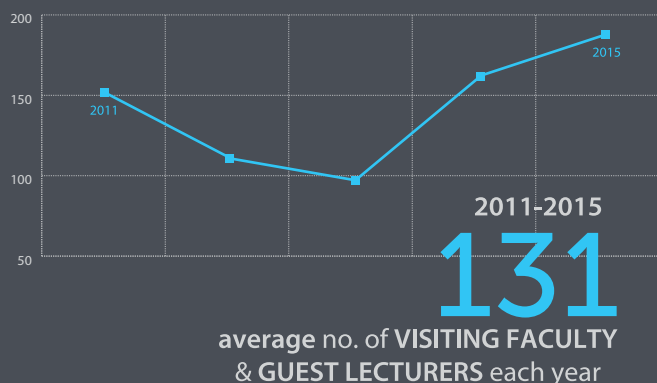


97/161 teachers have Ph.Ds. (additionally, 24 teachers are currently pursuing a Ph.D.)

VISITING FACULTY

The unique philosophy and vision of the Revered Founder Chancellor, Bhagawan Sri Sathya Sai Baba inspires over 130 noteworthy academicians and senior corporate executives, who volunteer to visit the university on an on-going basis each year to share their knowledge and experience with students and faculty.

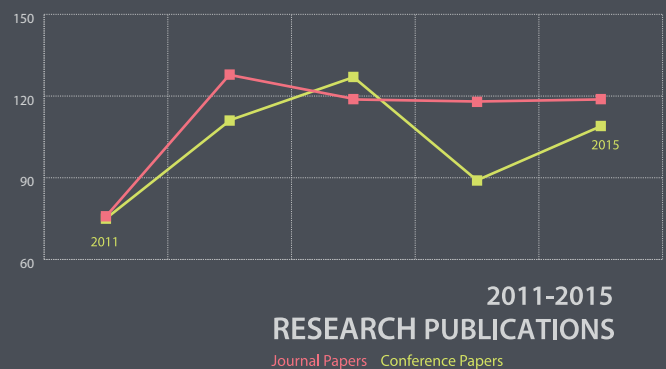
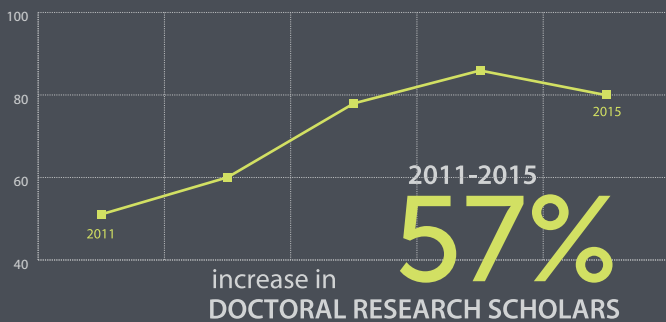
They add a unique perspective to the courses taught and provide students with exposure to wider academic and real world scenarios. Quite a few of them teach syllabi spanning an entire semester.



Microsoft	ING	CISCO	Tata Motors
Bhabha Atomic Research Centre	IIT	University of Sussex	University of Illinois
Deloitte	AT&T	Bayer Healthcare	Honeywell
Cornell University	NUS Singapore	DRDO	University of Massachusetts
IIM	Indian Institute of Science	University of Tokyo	Delhi University
Lucent Technologies	Hewlett Packard	TVS	Reserve Bank of India

RESEARCH PROFILE

The research output at the university has seen a significant rise in the past few years. New transdisciplinary research collaborations in the sciences between the university and external institutions like the FDA (USA), as well as collaborations on multiple research projects with the Sri Sathya Sai Institute of Higher Medical Sciences (SSSIHMS) are testimonial to the rise in the quality of research at the university. The number of doctoral research scholars has seen a 57% increase in five years from fifty-one in 2011 to eighty in 2015. Research Scholars represent almost 6% of the total student population at SSSIHL, a figure far above the national average.

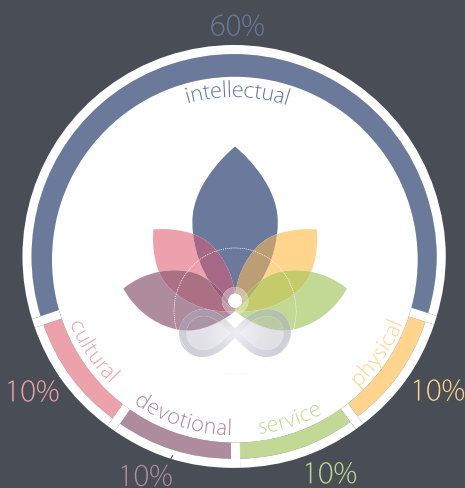
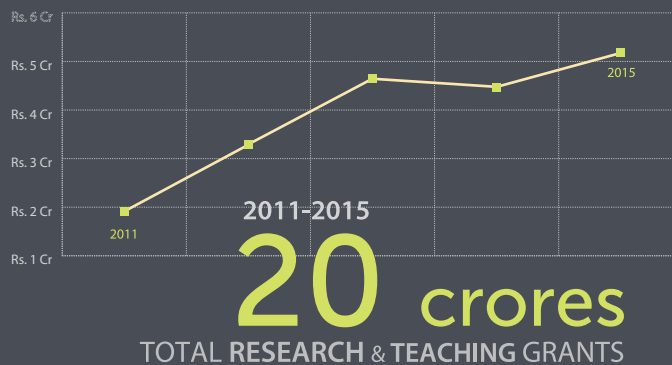


RESEARCH GROWTH

Grants for current research projects across departments total more than ₹900 lakhs.

SSSIHL faculty have published over 120 publications in reputed national and international journals and presented a similar number of conference papers on average.

A significant number of teachers and doctoral research scholars have won research awards in the past five years.



Annual Time spent by Students on Integral Education Dimensions

TIME SPENT ON INTEGRAL EDUCATION BY SSSIHL STUDENTS

Bhagawan Baba purposefully designed the system of Integral Education so that while students spend 60% of their time on academics (intellectual capacities), they also spend 40% time on the development of other qualities.

These qualities include a spiritual awareness, cultural talents, physical capacities (sports and games) and fine tuning their higher sense of service to fellow human beings.

OUTCOMES

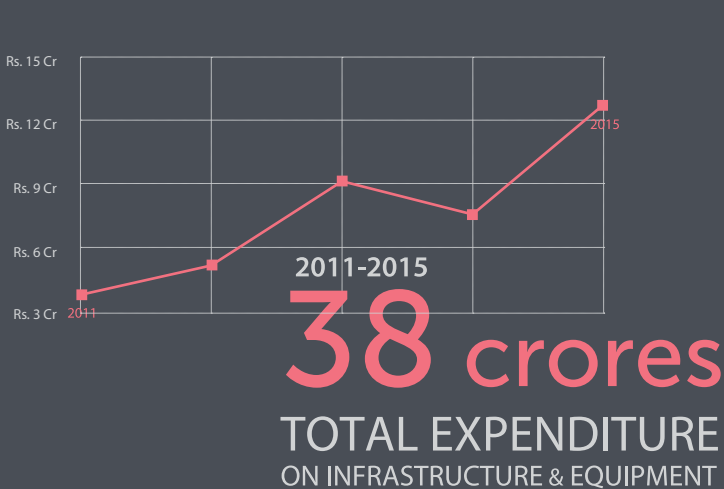
Together, these Integral Education dimensions help develop a strong character and positive qualities in students, including a broadened perspective on life, self-confidence and self-reliance, dignity of labour and respect for work, determination, dedication and commitment, sense of equanimity, creativity and innovation, teamwork, selfless service, leadership, entrepreneurship, time management and the quest for excellence.

Overall Trends 2011 - 2015

INFRASTRUCTURE & FACILITIES

The university, with the support of Sri Sathya Central Trust, continues to invest in providing the best infrastructure and resources to students for academic, research and other integral education activities.

The portfolio of infrastructure of the university includes Campus Buildings & Grounds, Classrooms & Auditoriums, Laboratories & Computer Centres, Hostels, Multimedia and Library facilities, Networking & Communications and Sports facilities.



₹12.71 Cr



2014/15

STUDENT - COMPUTER RATIO



INFORMATION TECHNOLOGY

SSSIHL has one of the best Student to Computer ratios in the country, with less than 3 students per computer (with the use of computers always being 1:1). In addition to this, high speed broadband internet connectivity, classrooms equipped with multimedia and video conferencing facilities at each campus assist in maximising the benefits of teaching and research at the university.

NEW BUILDINGS AT SSSIHL

In the past five years, a number of new projects have been completed. The major ones are highlighted here in chronological order.



NEW BUILDING

Anantapur Campus, May 2011

A new building fully equipped with modern classrooms and student accommodation was built to accommodate the growing population of students and doctoral research scholars at the women's campus.

HOSTEL EXTENSION BUILDING

Prasanthi Nilayam Campus, 2014

To accommodate the steady increase in the number of doctoral research scholars and students, a new Hostel extension was commissioned in 2013 and was operational in the academic year 2014/15.



TEACHERS & STAFF ACCOMMODATION

Anantapur Campus, 2014

The Anantapur Campus for women is the biggest campus of the university- both in terms of size and student numbers. The new teachers' accommodation consists of apartments and the quarters that house the contingent staff of the campus.



THE ANNEXE

Prasanthi Nilayam Campus, early 2015

This beautifully lit 44,000 sq.ft. building spans over three floors and hosts a number of classrooms, a conference hall, offices and a large atrium.

HOSTEL BUILDING

Muddenahalli Campus, late 2015

The new hostel for students of the Muddenahalli Campus can accommodate up to 300 students, which is over twice the current student strength at the campus.

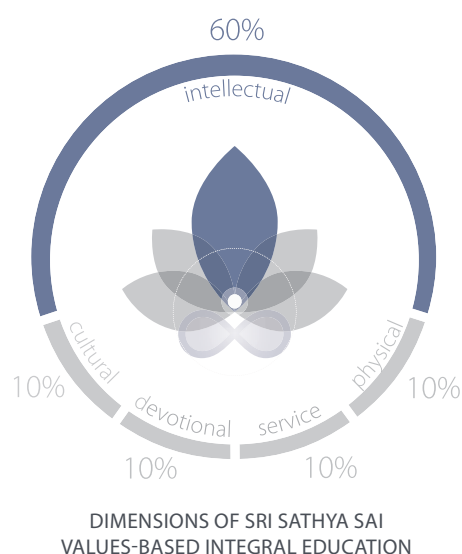


SRI SATHYA SAI ADVANCED CENTRE FOR RESEARCH AND DEVELOPMENT

Prasanthi Nilayam Campus, early 2016

A new facility that will promote advanced research at SSSIHL across all departments.

For further information, see page 25.



SSSIHL is committed to a unique system that combines values-based education with academic excellence.

Academic Workshops & Conferences

To facilitate wider exposure to the developments in academia and industry and enable the exchange of ideas, the university conducted **twelve national and international workshops and conferences** during the course of the academic year 2014/15.

Mathematics & Computer Science

Math in Action: Role of Mathematics Applied in the Contemporary World
Brindavan Campus, 23 Aug 2014

The workshop highlighted the application of mathematical concepts in problems of everyday life in four distinct areas: Healthcare, Insurance, eCommerce and Cryptography. The speakers included SSSIHL alumni currently specializing in these fields.

External Experts / Invited Guests from:
GE Healthcare, Ernst & Young, Adobe

Computer Vision & Machine Learning
Prasanthi Nilayam Campus, 10-13 Dec 2014

The first two days of the event comprised of tutorials on Fundamental predictive tools used by data-mining practitioners and Subspace Clustering.

The last two days consisted mainly of invited talks. Topics ranged from Video Big Data Systems: Applications and Assessments to Recent Advances in Clustering Theory.

External Experts / Invited Guests from:
IBM, IIT Delhi, Michigan State University, IIT Hyderabad, Yahoo Labs, University of Illinois at Urbana-Champaign, IIT Ropar

Physics

Algorithmic Thinking and Problem Solving
Prasanthi Nilayam Campus, 1 Nov 2014

A hands-on workshop that presented systematic ways of analysing problems and applying appropriate techniques

chosen among several classic algorithm design techniques in order to develop solutions to numerous problems that arise in many different domains.

External Expert / Invited Guest from:
National University, San Diego, CA, USA

Frontiers in Nanoscience, Technology & Application (FINSTA) 2014
Prasanthi Nilayam Campus, 20-24 Dec 2014

FiNSTA 2014 brought together international members from the diverse Nanoresearch community to i) showcase the latest in nanoresearch to industry and academia; ii) enhance the evolution of collaborative vision through emerging research challenges and questions; and iii) provide a forum through which the Nanoscience community may collaborate to develop the next generation of 'everyman' Nanotechnologies (both novel and applicable).

External Experts / Invited Guests from:
Clemson University, USA, Indian Institute of Science, Istituto Italiano di Tecnologia, Italy, Tata Institute of Fundamental Research, IIT Hyderabad, Sai Hira India Foundation and several others

Chemistry

Interface in Chemical and Biological Sciences: Biochemical Exploration and Conceptualization (BEACON)
Brindavan Campus, 21 Feb 2015

The workshop explored the inter-relationship and interdependence between the fields of Biosciences and Chemistry. Topics included Electrochemistry of Nanochemistry, Structure-based design of inhibitors, Metagenomics, Genomics of restriction-modification systems, etc.

External Experts / Invited Guests from:
Raman Research Institute, Indian Institute of Science, National Institute of Pharmaceutical Education and Research (NIPER)

Management Studies & Commerce

Big data for Banking and Finance

Brindavan Campus, 16 Aug 2014

The symposium addressed the understanding of the concepts of 'Big Data' and its impact on businesses, customers and other stakeholders. Emerging trends, challenges and adoption of big data were presented and moderated through additional insights, observations, and questions & answers.

External Experts / Invited Guests from:

UBS AG, Broadridge Financial Services, Cognizant, Fidelity, Accenture

Rural Entrepreneurship & Marketing

Muddenahalli Campus, 13 Dec 2014

The workshop focused on the challenges of rural economic development and explored how the spirit of creative entrepreneurship can help transform the rural economic landscape. Innovations in Indian agriculture, rural tourism,

healthcare, small scale industries and other ideas were discussed. Students learnt techniques on how to develop better creative and thinking skills and how successful rural entrepreneurship and marketing necessitates thinking outside the box.

External Experts / Invited Guests from:

Sri Sessa Sai (Diplomat and the representative of Seychelles for India)

Habits for achieving Personal and Interpersonal Effectiveness

Prasanthi Nilayam Campus, 26 Dec 2014

A workshop for the II MBA students based on the practical teachings from the popular book, The Seven Habits of Highly Effective People by Stephen Covey.

External Experts / Invited Guests from:

NIIT Technologies, Philippines

INFRAQUEST: Infrastructure- Challenges & Prospects

Brindavan Campus, 14 Feb 2015

Infrastructure is an area that is slowing down India's emerging economic power status. The workshop discussed these challenges and possible solutions to it from the point of view of governance and policy, finance, law and regulation relating to infrastructure.

External Experts / Invited Guests from:

The World Bank, Baker & McKenzie, Wong & Leow, SBI Capital Markets, L&T Infrastructure Development Projects

The Power of Values

Muddenahalli Campus, 14-15 Feb 2015

An annual Management Development Programme that focused on the importance of a values-based education leading to ethical and moral business practices. Areas such as courage (in the face of corruption and other real world challenges), self awareness, perceptual variation, etc. were discussed in detail. The programme stressed the importance of Sai students practicing the values inculcated at SSSIHL after graduation.



External Experts / Invited Guests from:
SSSIHL alumni, InSAI Consultants, TATA Hitachi, Tata Consultancy Services, Dell, Tech Mahindra, Christ University

Lean Six Sigma: A Paradigm for Business Excellence

Prasanthi Nilayam Campus, 20-21 Feb 2015

The workshop focused on quality management and delved into the major concepts of lean methodologies in quality- the Six Sigma paradigm, leadership for change management, business acumen in quality initiatives and project management. Students learnt the importance of harmoniously blending both hard and soft skills involved in managing lean quality systems.

Sub-Department of Philosophy

Applied Ethics

Anantapur Campus 14-15 Feb 2015

Applied Ethics explored the philosophical essence of particular issues in private and public life that involved matters of moral judgment. It attempted to use philosophical methods to identify the morally correct course of action in various fields and situations in human life. For example, the moral obligations of a citizen towards his nation in utilizing his adult franchise, one's moral obligation towards global poverty, etc.

Each day had a theme and all deliberations explored that theme in details. These included Relation between Truth and Non-Violence, Before and After Gandhi, Chanakya on Ethical Leadership, Eco Feminism, Biomedical Ethics, Academic Ethics, Media Ethics and Is Science moving Towards Spirituality?

External Experts / Invited Guests from:

University of Hyderabad, University of Mumbai, University of Sanskrit, Kalady, Loyola College, Radio Sai Global Harmony, Copenhagen Business School, Berlingske Tidende, Denmark.

For further information, visit sssihl.edu.in

New Programmes

A consolidation of academic programmes led to the merger of two major departments- Management Studies and Commerce, to form the Department of Management & Commerce.

Two new programmes- MBA and Master in Education (M.Ed.) were introduced for women students at the Anantapur Campus in June 2014.

New Faculty

Fifteen new faculty joined the SSSIHL family in 2014/15, bringing the total number of teaching faculty to 161.

- Sri B Venkatramana, Associate Professor, Dept. of Mathematics & Computer Science
- Sri Pakala Chandrasekhar, Asst. Professor, Dept. of Mathematics & Computer Science
- Dr. (Mrs.) Sreerangavani K, Asst. Professor, Dept. of Mathematics & Computer Science
- Ms. V Prathyusha, Asst. Professor, Dept. of Chemistry
- Dr. V N S Malleswara Kota D, Asst. Professor, Dept. of Biosciences
- Dr. Anandkumar K, Asst. Professor, Dept. of Biosciences
- Dr. (Mrs.) Swetha Thiruchanuru, Asst. Professor, Dept. of Management & Commerce
- Dr. (Mrs.) G Padmavathy, Asst. Professor, Dept. of Management & Commerce
- Dr. Sanjay Mahalingam, Asst. Professor, Dept. of Management & Commerce
- Ms. Vyshnavidevi B, Asst. Professor, Dept. of Management & Commerce
- Miss Neetu Gupta, Asst. Professor, Dept. of Education
- Dr. M B S S Narayana, Asst. Professor in Sanskrit
- Dr. A Sunil, Research Faculty, Dept. of Chemistry
- Sri Abishek H, Teaching Assistant, Dept. of Physics
- Sri Satheesan S, Teaching Assistant, Dept. of English Language & Literature

Student Activities & Achievements

Projects & Dissertations

Listed below are the key topics/areas of postgraduate and professional programme projects and dissertations.

MATHEMATICS & COMPUTER SCIENCE

M.Sc. in Mathematics and M.Tech. in Computer Science

Elliptic Curve Cryptography, Sparse Representation, Subspace Clustering, Spectral Clustering, Digital Watermarking, 3D Reconstruction, Clustering Problem, Aerial Images, Machine Learning, Aerial Super Resolution, Face and Expression Recognition.

PHYSICS

B.Sc. (Hons.) in Physics, M.Sc. in Physics, M.Sc. in Nanoscience and Nanotechnology and M.Tech. in Optoelectronics & Communications and Nuclear Medicine

Chaos Theory, Computational Techniques, X-ray Diffraction, Solar Cells, Electromagnetism, Thermal Physics, Mechanics, Electron - Gamma Spectroscopy, Novel Organic Materials, Healthcare and Forensic Sensing, Multipath TCP, Integrated Fiber Optic Gyroscope, Gamma Camera Images, Cardiac Clearance, Renal Disorders, Myocardial Perfusion Imaging.

CHEMISTRY

M.Sc. in Chemistry and M.Tech. in Analytical Methods & Chemical Instrumentation

Dibenzylidenecycloalkane Derivatives, Kinase inhibitors, Molecular Level Interactions, Ethanol Electrooxidation, Cyclic Glucan, Carbon Nanotubes.

BIOSCIENCES

M.Sc. in Biosciences

Homocysteine, *Pila globosa*, water soluble carbon quantum dots, Bioinformatics (Ovarian and Prostate Cancer).

HOME SCIENCE

M.Sc. in Food Technology and M.Sc. in Food Science & Nutrition

Prebiotics and Probiotics, Bioelicitors, Phytochemical and Therapeutic Potentials of Sesame Seeds, Hibiscus-based novel foods, Physicochemical and Nutraceutical Properties of Aniseed oils.

MANAGEMENT & COMMERCE

M.B.A., M.B.A. in Finance and M.F.M.

Equity, Investment strategies, Cost-benefit analysis, Banking, Marketing, e-Services, Supply Chain Management, Corporate Social Responsibility, Operations, Stocks, Foreign Exchange, Investment Portfolios, Mutual Funds, Supply Chain.

ECONOMICS

M.A. in Economics

Coal Sector, Demand For Money, Foreign Institutional Investment, Balance of Payments, Interest Rates.

EDUCATION

Master of Education (M.Ed.)

Role of Seva in developing civic responsibility, Impact of congregational singing on the emotional intelligence of school children.

ENGLISH LANGUAGE & LITERATURE

M.A. in English Language & Literature

Critique of Richard Flanagan's The Narrow Road to the Deep North, Emily Dickinson: A Critical Study of Select Poems

Best All-Round Students

The Best All-Round Student Gold Medal recognises a final year student from each campus who excels in all five dimensions of the Sri Sathya Sai system of Values-based Integral Education-Intellectual, Cultural, Physical, Devotional and Service. The winners for 2014/15 were:

Sai Kiran M

Anantapur Campus
III B.Sc. (Hons.) in Chemistry

Adarsh Saraf

Prasanthi Nilayam Campus
II M.Sc. in Mathematics

Santosh C R

Brindavan Campus
III B.Sc. (Hons.) in Physics

Sandeep K Chavan

Muddenahalli Campus
III B.B.M.

Organizational Visits

MATHEMATICS & COMPUTER SCIENCE

First year M.Tech in Computer Science students, Bangalore, 16-19 April 2015. Organizations visited: Honeywell, OPTYM, CISCO, IBM and SSSIHMS, Whitefield.

PHYSICS

First year M.Tech in Optoelectronics & Communications students, Chennai and Bangalore, 16-21 April 2015. Organizations visited: IIT Madras, Sundaram Clayton Ltd., TVS, Heterogeneous Communication Technologies, Helixon, CISCO, SSSIHMS, Whitefield, Tejas Networks Ltd., and Laboratory for Electro Optics Systems (LEOS), an ISRO Centre.

MANAGEMENT & COMMERCE

Anantapur Campus: II M.B.A. students, Bangalore, 16-19 April 2015. Organizations visited: TAFE Motors and Tractors, TVS Motors, Biocon, Vokin Foods and Sai Vishram.

Prasanthi Nilayam Campus: II M.B.A. students, Chennai, 16-20 April 2015. Organizations visited: Coca Cola, Sundaram Clayton, Ashok Leyland, Nippon Paints and HDFC.

Brindavan Campus: II M.F.M. students, Bangalore, 2014/15. Organizations visited: Titan Industries, TVS Motors and ING Vysya.

Muddenahalli Campus: III B.B.M.

students, Prasanthi Nilayam, 6-7 November 2015. Organizations visited: SSSIHMS, SSS General Hospital.

Other Activities

Final year M.Tech. in Optoelectronics & Communications students, Dept. of Physics, SSSIHL presented two demonstration papers and one research paper at the IEEE International Conference on Advanced Networks and Telecommunications Systems (IEEE-ANTS) Conference, New Delhi, 14-17 December 2014.

National Examinations

23% of SSSIHL final-year postgraduate students qualified in national exams such as GATE/JEST or CSIR-UGC NET in 2014/15. The list below includes the national rank for each exam.

J Adithya (Physics)

13 (CSIR-JRF) | 7 (JEST) | 3 (GATE)

Adarsh Saraf (Mathematics)

23 (CSIR-LS) | 30 (GATE)

Srimalla Srikanth (Mathematics)

36 (CSIR-JRF) | 30 (GATE)

Sai Ganesh M (Mathematics)

28 (CSIR-LS) | 60 (GATE)

T S S Babu (Physics)

62 (JEST) | 62 (GATE)

Akarsh Bajpai (Biosciences)

39 (CSIR) | 199 (GATE)

N Ganesh (Physics) 205 (JEST) | 88 (GATE)

Goturu Sai Sudheer (Computer Science)

161 (GATE)

Amrit Kumar (Computer Science)

307 (GATE)

G V S Manohar (Physics)

82 (CSIR-JRF) | 398 (JEST) | 341 (GATE)

Gaurav D Verma (Physics) 341 (JEST)

K S Adithya (Physics) 1098 (GATE)

Parth Gupta (Chemistry) 1116 (GATE)

Chaitanya Pavan Tanay (Computer Science)

1517 (GATE)

Sai Gowrang Patnaik (Chemistry) 1597 (GATE)

Yogesh Murthy (Computer Science)

1713 (GATE)

Krishna Chaitanya (Electrical Communication Engineering) 5384 (GATE)

Sanju Singh (Computer Science)

4806 (GATE)

Suriya Narayanan (Computer Science)

5083 (GATE)

V Sai Raam (Computer Science)

6603 (GATE)

Gaurav Valecha (Management) (NET)



Faculty Activities & Achievements

Mathematics & Computer Science

Prof. V Chandrasekaran

- Invited talk on Pixel to Patient Care at a workshop on Translation of Research in Image Processing to Clinical Image Based Diagnostic Procedure, Sona College of Technology, Salem, 28 Aug 2014.

Dr. Pallav Kumar Baruah

- Resource Person, UGC-sponsored National Workshop on Current trends in Computing Technology. Series of Five talks on Big Data and Analytics, Jawaharlal Nehru Technological University, Hyderabad, 16-17 Jun 2014.
- Keynote speech on High Performance Computing, Research Trends and Applications and Invited talk on Nonlinear Methods for Existential Analysis of Differential Equations, Seminar on Research Awareness, Dept. of Mathematics, Sona College of Engineering, Salem, Tamil Nadu, 10 Oct 2014.
- Best Paper award and Session Chair, IEEE International conference on Parallel Distributed and Grid Computing (PDGC 2014), Jaypee University of Information Technology, Waknaghat, Solan, Himachal Pradesh, 13-17 Dec 2014.
- Innovation Award 2014 (instituted by NVIDIA for exemplary research work and contribution towards GPU research), Invited talk on GPUs Giving Wings to Computational Science, and Panel Discussion participant (To build an academic environment for the growth of High Performance Computing research in India and Future Activities in the Area of High Performance Computing in India), IEEE International Conference on High Performance Computing (HiPC 2014), Goa, 17-20 Dec 2014.
- Resource Person, DST-sponsored National Program on Differential Equations. Six talks on Second Order Differential Equations, LNM Institute of Information Technology, Jaipur, 25-27 May, 2015.

Dr. S Balasubramanian

- Invited to head a technical discussion on the relevance of Singular Value Decomposition to problems in Computer Science (particularly Image and Video Processing), Sona College of Technology, Salem, 28 Feb 2015.

Dr. R Raghunatha Sarma

- Invited talk on Spectral Clustering – Practical Algorithms, Workshop on Mathe-

matical Methods for Engineering and Scientific Applications, Sona College of Technology, Salem, 19-20 Dec 2014.

Sri Sai Shyam

- Invited talk on Mathematical Methods in Digital Watermarking, ISTE Workshop on Control Systems, Sona College of Technology, Salem, 2-12 Dec 2014.

Sri Ajith Padyana

- Attended Indian Symposium on Computer Systems (IndoSys) Conference, IIIT, Hyderabad, 23-24 May, 2015.
- Attended International Parallel and Distributed Processing Symposium (IPDPS), an international forum for engineers and scientists from around the world, Hyderabad, 25-29 May, 2015.
- Panel Discussion participant (To build an academic environment for the growth of High Performance Computing research in India) at IEEE International Conference on High Performance Computing (HiPC 2014), Goa, 17-20 Dec 2014.

Dr. Krishna Kiran Vamsi Dasu

- Best Research Poster Award 2015, Stream of Mathematical Sciences (including Statistics), 102nd Indian Science Congress, 3-7 Jan 2015.

Physics

Dr. (Mrs.) Dwaraka Rani Rao

- Invited talk on Small Particles- Big Machines, K S N Government Degree College for Women, Anantapur, 14 Aug 2014
- Guest of Honour at UGC & AP-SCHE-sponsored National Seminar on Nanomaterials and Global Perspectives organised by the Dept. of Chemistry, Government College, Anantapur, 30-31 Jan 2015.

Dr. Krishna Chaitanya V

- Technical Programme Committee Member, 12th International Conference on Fiber Optics and Photonics, IIT Kharapur, India, 13-16 Dec 2014.
- Invited talk on Overview of Laser material processing: Femtosecond Laser Micro Machining, 7th National Symposium for Materials Research Scholars (MR-15), Dept. of Metallurgical Engineering & Materials Science, IIT Bombay, Mumbai, 21-22 May 2014.

Dr. (Miss) Deepa Seetharaman

- Delivered four lectures, supervised lab sessions and served as a Resource

person at the Science Academies' 63rd Refresher Course in Experimental Physics, Dept. of Physics, Sri Krishnadevaraya University, Anantapur, 8-21 Oct 2014.

Mrs. C Prathibha

- Resource person at the Science Academies' 63rd Refresher Course in Experimental Physics, Dept. of Physics, Sri Krishnadevaraya University, Anantapur, 8-21 Oct 2014.
- Best Poster Award for the paper TiO₂ nanotubes: A novel adsorbent for defluoridation studies, 2nd International Conference on Frontiers in Nanoscience, Technology and Applications at the Dept. of Physics, Prasanthi Nilayam, 20-22 Dec 2014.

Chemistry

Dr. D Rajesh Babu

- Best Poster Award for the paper Mycosynthesis of Gold Nanoparticles and Evaluation of their Catalytic Activity, 2nd International Conference on Frontiers in Nanoscience, Technology and Applications at the Dept. of Physics, Prasanthi Nilayam, 20-22 Dec 2014.

Biosciences

Sri A S Vishwanathan

- Best Paper Award for the paper Studying factors affecting electrogenic activity in microbial fuel cells, National Conference on Recent Trends in Microbial Biotechnology, Osmania University, Hyderabad, 26-28 Feb 2015.

Home Science

Dr. (Mrs.) B Andallu

- Keynote speech on Natural Remedies for Stress-Induced Diseases (Diabetes, Cancer and Inflammatory Diseases), U6 International Conference, Cape Town Peninsula University of Technology, Cape Town, South Africa, 8-10 Sep 2014.
- Invited talk on Oxidative stress-induced diseases: Role of advanced nutrition, UGC-sponsored International Conference on Advances in Home Science Studies, Dept. of Home Science, Sri Padmavati Mahila Vidyalayam, Tirupati, 20-21 Feb 2015.

Management & Commerce

Prof. A Sudhir Bhaskar

- Resource person, Executive Develop-

ment Program, Sona School of Management, Salem, 12-13 Feb 2015.

Prof. A Anantha Raman

- o Invitation as Resource person/Coordinator or Conference Leader at Harvard Business School, USA, Lubin School of Business, USA, Bahadur Institute of Management, Mysore, Christ College, Bangalore and other Advanced Management Programmes at several Business schools in India and abroad, throughout the academic year 2014/15.

Sri Sanjay Sahni

- o Resource person, UGC-sponsored National Seminar on Necessity of Inter Personal Relations for Human Excellence, SVGM Govt. Degree College, Kalyandurg, Andhra Pradesh, 9 Jul 2014.

Dr. Sayee Manohar K

- o Session Chair and Resource person, ICSSR-sponsored National Seminar on Social Rejuvenation through Corporate Social Responsibility, K S Rangasamy College of Arts & Science, Tiruchengode, 20 Sep 2014.

Dr. (Miss) T R Rajeswari

- o Best Paper Award for the paper Impact of Green Accounting in National Policy decisions, 2nd International Conference on Accounting and Finance, The International Institute of Knowledge Management (TIKIM), Colombo, Sri Lanka, 25-27 May 2015.

Dr. N Sivakumar

- o Resource person, Workshop on Human Values and Professional Ethics, Jawaharlal Nehru Technological University (JNTUA), Anantapur, 5 Jul 2014.
- o Runner-up, Thematic paper contest for the paper Bridging the Gap Between Concept and Business – Understanding The True Role of FDI in Life Insurance, Insurance Institute of India, Mumbai, 2015.
- o Paper Presentation for the paper Bridging the Gap Between Concept and Business - Understanding The True Role of FDI in Life Insurance, 116th Mid-Term Council Conference, Insurance Institute of India, Udaipur, 14 Mar 2015.

Economics

Dr. R Prabhakar Rao

- o Chaired a technical session and Invited talk on Some Recent Advances in Predictive Analytics in Big Data, National Seminar on the Recent Advances in Data

Analytics and its Applications, Andhra University, Visakhapatnam, 13-14 Mar 2015.

Sri G Raghavender Raju

- o Resource Person and Session Chair (two sessions), National Level workshop on Econometrics with Computer Applications (ECONOMETRICS-IV), Chhatrapati Shahu Institute of Business Education and Research (CSIBER), Kolhapur, Maharashtra, 9-10 Mar 2015.
- o Invited Talk on Econometrics Applications, Dept. of Economics, Shivaji University, Kolhapur, Maharashtra, 10 Mar 2015.

Education

Miss Neetu Gupta

- o Paper Presentation for the paper Challenges in Teaching Moral and Ethical Values, National Seminar on Human Values & Professional Ethics, K S N Government Degree College for Women, Anantapur, 31 Mar 2015.

English Language & Literature

Miss Maitali Verma

- o Best Paper Certificate for the paper Uniting the Beings: The Journey of Yeats from 'I' to 'I', published in International Journal of English and Literature, 6(4), Dec 2014.

Sub-Departments & Languages

Dr. (Mrs.) M Praphulla

- o Resource Person, National Seminar on Translations and Adaptations of Sanskrit literature, Sree Sankaracharya University of Sanskrit, Kalady, Kerala, 12-13 Feb 2015.

Dr. N Venkatesha Rao

- o Received a special award, Vidya Raja Mani, for finding out *Srishti prakriya* in vedic commentaries on the topic Mushti Srushti and Sarvasrishti by Aitareya Shodha Pitham and Bhanadarakerimutt, Bangalore, 17 Jul 2014.

Sri Mahabala Rao M G

- o Paper Presentation for the paper Bhaarta Deshe Bhaashaanaam Shikshanam Samasyaaha tat Samaadhaanancha, National Conference on Rethinking Language Teaching in India, Jain University, Bangalore, 2-3 Mar 2015.

Sai Krishna Award for Excellence in Teaching

The Sai Krishna Award for Research and Teaching has been instituted to honour the top researchers and teachers of SSSIHL. The awards alternate between top researchers and top teachers every year. Evaluation of candidates for the awards is done by an external panel of experts. The winners for excellence in teaching (one from each campus), 2014 were:

Dr. (Miss) T R Rajeswari

Associate Professor, Dept. of Commerce
Anantapur Campus

Dr. Shailesh Srivastava

Asst. Professor, Dept. of Physics
Prasanthi Nilayam Campus

Sri Rajkumar Jain

Associate Professor, Dept. of Physics
Brindavan Campus

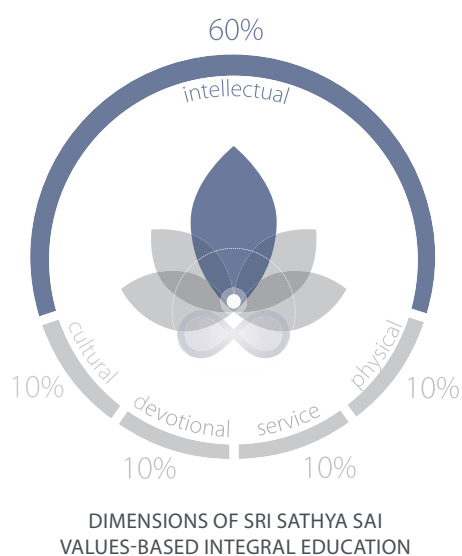
Sri V Bhaskaran

Asst. Professor, Dept. of Mathematics & Computer Science
Muddenahalli Campus



RESEARCH

2014/15



Research at SSSIHL is
focused on societal
benefit.

Research Areas

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 application in practice? Nor is there any sense of discrimination in the promotion of research.

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

True to the word of the Revered Founder Chancellor, all research at SSSIHL is need-based and ultimately leads to societal benefit. This applies to all three faculties at the university, Sciences, Management & Commerce and Economics & Humanities.

Sciences

The key research focus areas for the Faculty of Science are **Health**, **Environment** and **Energy**.

The five science departments of the university- Chemistry, Physics, Bioscience, Mathematics & Computer Science and Home Science have oriented their research programs to translate the vision of the Revered Founder Chancellor of serving society through education and research.

Transcending the well established and familiar boundaries of disciplinary silos, all the science departments have worked hard over the past five years to establish transdisciplinary research in the sciences.

It is endeavoured to make new materials and devices; discover novel mechanisms of synthesis, and identify their properties and functions by exploring research questions at the intersection of the respective fields.

In the **Healthcare** domain, joint research projects are being undertaken by scientists from varied subject backgrounds along with clinicians at Sri Sathya Sai Institute of Higher Medical Sciences. These include Automatic Medical Image segmentation techniques for rapid disease screening purposes and *In silico* drug design of various synthetic and semi-synthetic analogs of medical extracts. The phytochemicals identified from conventional and unconventional foods are tested for their bioefficacy as anti-diabetic, antioxidant, anti-microbial agents using in vitro models. The use of elliptic curve cryptographic techniques for image encryption, digital signatures is also being researched.

In the field of **Environment**, research in metal ion sensing, their removal using green routes, and metal hybrid catalysts for bioremediation of pollutants is being pursued. Theoretical studies on design of low cost solutions for wellness of crops and a pest free ecosystem is also being undertaken.

Natural biopolymers are being explored as novel edible coating on foods for bio-preservation. Low cost dehydration food technology namely osmo-air dehydration is also being researched.

In the area of **Energy** applications, efficient energy materials for



photovoltaic applications, optimized dielectric property based energy storage devices are being studied. Cost effective materials for rural applications and use in windows, doors, etc. using groundnut shell and rice husk are also being researched.

Management & Commerce

The exploration of the symbiotic relationship between business and society has been the focus of a number of research studies at the department.

Several key areas have been explored within the major research focus of **Business & Society Ecosystem**.

Social Entrepreneurship. The research endeavours to explore the apparent dichotomy that exists between the twin goals of profitability and social mission in this increasingly relevant area. Research in this area strive to accomplish a holistic understanding of Social Entrepreneurship at a conceptual level, gaining insights into social entrepreneurs, various stakeholders and the environment that becomes their operational canvas.

Green Supply Chain Management. The body of work focuses on the role of Indian industries in the area of Green Supply Chain. In the wake of businesses increasingly adopting green practices, the research highlights the significant and meaningful benefits of green initiatives when they are spread to their partners- upstream and downstream, rather than in isolation. While many South Asian economies—such as

China, Philippines and Thailand—are adopting Green Supply Chain Management, its impact in India has been to a lesser degree.

Microfinance in India. Amidst growing awareness and realization that the world's poor are excluded from formal financial systems, the research focuses on aspects of microfinance (such as microcredit) and the extent to which it has taken root in the Indian context of financial exclusion.

Role of Corporate Governance on Performance of Indian Companies.

Governance is critical wherever a few members are taking decisions on behalf of several others. Using the example of select Indian companies, the focus of research is on the adequacy and quality of corporate governance in shaping the growth and future of emerging economy.

Apart from this, research on **Values in Business** and the **Spirit of Work in Business Organizations in India** is also being pursued.

Economics & Humanities

Each department under this faculty, owing to their diversity of subject areas, has a different research focus.

ECONOMICS

Macroeconometric modelling.

Research in this area analyzes contemporary issues like tackling inflation, growth prospects in the medium to long term, trade and capital flows, impact of monetary, fiscal and

exchange rate policies.

The research work in **Financial Econometric modelling** includes financial markets, institutions and financial services in relation to the long run growth of the economy.

The analysis of the growth of various sectors of the economy such as agriculture, industry, services and trade, in promoting economic development forms the major body of research under **Development Economics**.

EDUCATION

Values-based education. A range of methodological and empirical approaches are adopted in this theme with a strong focus on moral and spiritual education, cognitive/psychological frameworks, intervention studies and an emphasis on quantitative analyses and mixed methods research.

ENGLISH LANGUAGE & LITERATURE

The research areas include: Twentieth-Century British Novel & Poetry, War Poetry & War Novels, Post-Modern British Novel, Post-Modern British Poetry, Russian Novel & Drama, The Fairy Tale/ Fantasy Literature, Mass Media and 'Educare', Comparative Literature, African Novel, Modernism and the Modern Dilemma, Gender Studies: the Feminine Mystique, The Diasporic Novel, Exploring the Phoneme-Grapheme Link, Indian Writing in English: Novel and Prose, Learner Culture through ESL Classes, American Poetry, Drama & Novel, and Testimonial Literature.



Research Projects

The total value of all research grants during the academic year 2014/15 was ₹5.18 crore. Listed below are the research projects during the year.

MATHEMATICS & COMPUTER SCIENCE

Near-Real-Time Super Resolution of Aerial Video (Visual and IR) Sequences for Defense Applications

DRDO ER & IP, Delhi

Diabetic Retinopathy Screening Tool

Zentron Labs, Bangalore

Elliptic Curve Cryptography

ISRO-RESPOND

An ensemble of Image Segmentation algorithms for Medical and Aerial Images

DRDO

PHYSICS

Design and development of optofluidic resonator geometries for biomedical sensing applications

UGC-DAE-CSR

Real time motion compensation, image enhancement and feature extraction of moving targets in ISAR

DRDO

Research Based Reforms in Physics Instruction: Classroom and Laboratory

VGST, DST, Govt. of Karnataka

Funds for infrastructure development in the thrust areas of Photonics, Nanoscience & Nanotechnology and Nuclear Physics

DST

Postgraduate Teaching Programme– M.Sc. in Nanoscience and Nanotechnology

DST

Modification of a planar gamma camera and its upgradation for supporting education, training and research in medical imaging

DAE-BRNS

Studies on Semiconductor-metal nano composites as high performance thermoelectric materials

DAE-BRNS

CHEMISTRY

Aerial Regiospecific Functionalisation of Anisotropic Nanoparticles & Implications Towards Generation of Plasmonic Metal Nanoclusters

DST INSPIRE Faculty Award

Application of plasmonic technologies and microbes-fortified biosorbents for efficient integrated bioprocessing

DBT

Develop Interfacial Chemistry Based Structure-Property Relationship in Nanodielectric Composites for Enhanced Energy Storage Applications

DST-SERB

BIOSCIENCES

Modulation of TNF Alpha and homocysteine induced inflammation by HDAC and Hsp90 inhibitors

UGC-Start up grant

Plant cell, tissue culture and its applications, Immunogenetics

UGC SAP DRS LEVEL II

Evaluation and Characterization of ESBL producing pathogenic Gram negative Enterobacteriaceae

DST-SERB

Interdisciplinary Science Colloquium

The colloquium provides an opportunity for doctoral research scholars, teaching faculty and visiting experts to share their research experiences with one another. It breaks down barriers of communication and helps merge traditionally distinct scientific disciplines, thereby creating new opportunities for research.

All the science departments (across campuses) of the university participate, using the videoconference facility. The topics for 2014/15 were:

- Avoiding the Antibiotic Armageddon
- Scalable Nanomanufacturing of Nanocarbon-Based Supercapacitors



- for Next Generation Energy Storage
- o Next Generation Catalysts for Fuel Cells: An Energy Storage Perspective
- o Transdisciplinary Inspirations for Today's Innovative Solutions
- o Design in Discovery of Drugs - Help & Myth
- o Antioxidant Potential of Aniseeds (*Pimpinella Anisum L.*) And Identification of Hytochemicals- An *in Vitro* Study
- o Searches for New Elements - Past, Present and Future
- o Mathematics - Exploring into Complexity

Research Scholars Activities & Achievements

MATHEMATICS & COMPUTER SCIENCE

Sri Sai Hareesh A

- o Reviewer for Journal of Visual Communication and Image Representation, Elsevier, 2014/15.
- o Reviewer for International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, World Scientific, 2014/15.

PHYSICS

Sri Pradyumna Mulpur

- o Best Poster Award for the paper Surface Plasmon Coupled Emission as a Novel Analytical Platform for the Sensitive Differentiation of Thiolated Amino Acids, 2nd International Conference on Frontiers in Nanoscience, Technology and Applications at the Dept. of Physics, Prasanthi Nilayam, 20-22 December 2014.

- o Invited to review the Modern Physics Letters B, on Graphene journal, in recognition of the work Ultra-Amplification of Surface Plasmon Coupled Emission in Graphene-Silver Hybrid Films, 16 Jan 2015.

Sri Aditya Dileep Kurdekar

- o Best Paper presentation for the paper Surface plasmon coupled emission as a novel analytical platform for the sensitive detection of cysteine, 2nd International Conference on Frontiers in Nanoscience, Technology and Applications at the Dept. of Physics, Prasanthi Nilayam, 20-22 Dec 2014.

CHEMISTRY

Dr. Abilash Gangula

- o Reviewer for the Industrial & Engineering Chemistry Research journal, ACS publications, 2014/15.

Sri Sai Giridhar Sarma Kandanur

- o Shortlisted for presenting the paper Synthesis and In-vitro cytotoxicity of novel C-12(α/β) amino substituted derivatives of andrographolide as potent anti-cancer agents for the Young Scientist Award, Dr. KV Rao Scientific Society.
- o Filed a patent for Andrographolide and analogues as multi therapeutic agent. Provisional Specification: E1/30308/2014 CHE, 4 Dec 2014. (Not Published). Inventors: Sai Giridhar Sarma K, Nageswara Rao G and Srinivas Nanduri.

Sri Sathya Sai Advanced Centre for Research and Development

The university is establishing an advanced Research Centre to facilitate research facilities for doctoral research scholars, post-doctoral research fellows and research faculty cutting across various disciplines.

The Sri Sathya Sai Advanced Centre for Research and Development will house the latest equipment to facilitate need-based research in the areas of Materials Science, Physics, Chemistry, Biosciences, Food Sciences, Mathematics, Management and Humanities.

The proposed research areas include:

- o Molecular Medicine and Integrative Biology
- o Designing Functional and Therapeutic Foods at Different Length Scales
- o Catalysts and Sensors
- o Designing and Engineering Multifunctional Materials at Different Length Scales

The Centre will open in 2016.



Research Publications

Mathematics & Computer Science

JOURNAL PAPERS

B V K Bharadwaj and Pallav Kumar Baruah (2015) Asymptotically Polynomial Type Solutions for Some 2Dimensional Coupled Nonlinear ODEs. *The Journal of Mathematics and Computer Science*, 14(3), 211-221.

D K K Vamsi, KNVSD Dwarakanath, I Aditya, Pallav Kumar Baruah (2014) Existential and Uniqueness Results for Boundary Value Problems associated with Nonlinear Singular Interface Problems on Time Scales using Fixed Point Theorems. *International Journal of Mathematics Trends and Technology*, 5.

Padyana A, Baruah P K, Devi Sudheer K and Srinivasan A (2014) Reducing the Disk IO Bandwidth Bottleneck through Fast Floating Point Compression using Accelerators. *IJACR- International Journal of Advanced Computer Research*, 4(14), 134-144.

N Uday Kiran (2014) A magic square of differential operators. *Investigations in Mathematical Sciences*, 4(2), 93-94.

Sree Ranga Vani K and Prasada Rao DRV (2014) Effect of Hall currents, thermal radiation and radiation absorption on mixed convective heat and mass transfer flow past a stretching sheet. *International Organization of Scientific Research*, 10(6), 67-77.

CONFERENCE PAPERS

K N V S D Dwarakanath, Srikanth Khanna and V Chandrasekaran (2-4 Apr 2015) A Novel Hybrid Method Using Adaptive Wiener Filter and Example-based Approaches for Aerial Image Super-Resolution. *IEEE International Conference on Communication and Signal Processing - ICCSP 2015*, Adhiparasakthi Engineering College, Melmaruvathur, Tamil Nadu.

Y Lakshmi Naidu (10-21 Aug 2014) Paired Neighbourhood set of Interval Graphs. *International Congress of Mathematicians - Seoul ICM 2014*, Seoul, South Korea.

Pinak Panigrahi, Sriram Kanchiraju, Devi Sudheer, Pallav Kumar Baruah, Ashok Srinivasan (11-13 Dec 2014) Optimizing MPI Collectives on Intel MIC Through Effective Use of Cache. *PDGC-2014, 3rd IEEE International*

Conference on Parallel, Distributed and Grid Computing, Jaypee University of Information Technology, Wagnaghat, Shimla.

Rohit Kumar Dhandhanian, Pallav Kumar Baruah, Ravi Mukkamala (27-29 Nov 2014) Privacy-Preserving Mining of Decision Trees Using Data Negation Approach. *IC3I 2014, IEEE 1st International Conference on Contemporary Computing and Informatics*, SJCE, Mysore.

Sai Prasanna Annamalai, Iyer Chandrashekar Gurumurthy, Hanumantha Rao Naidu and Pallav Kumar Baruah (11-13 Dec 2014) Real-Time Codebook-based Speech Enhancement with GPUs. *PDGC-2014, 3rd IEEE International Conference on Parallel, Distributed and Grid Computing*, Jaypee University of Information Technology, Wagnaghat, Shimla.

O M Balasairamkumar, Pabbathi Sai, Dandu Rajeev and Pallav Kumar Baruah (17-20 Dec 2014) GPU Accelerated Automation of Detection and Segmentation of Blood Vessels, Optic Disk and Macula in Fundus Images. *HiPC, IEEE International Conference on High Performance Computing*, Goa.

Sai Sudheer Goturu, Jagannath V and Pallav Kumar Baruah (17-20 Dec 2014) GPU Accelerated Fast and Compact Representation of Actions in Movies. *HiPC, IEEE International Conference on High Performance Computing*, Goa.

Siva Sundar, Vijay Sai A and Pallav Kumar Baruah (17-20 Dec 2014) GPU-Accelerated Fast Compressive Object Tracking. *HiPC, IEEE International Conference on High Performance Computing*, Goa.

D K K Vamsi and I Aditya (3-7 Jan 2015) Biological control of predator-prey systems by providing additional food in the presence of inhibitory effect: A theoretical investigation. *102nd Indian Science Congress on Science and Technology for Human Development*, University of Mumbai.

Sree Ranga Vani K and Prasada Rao D RV (21-23 July 2014) Effect of Thermo Diffusion on MHD convective heat and mass transfer flow of a chemically reacting fluid through a porous medium in a rotating system. *Second International Conference on Applications of Fluid Dynamics*, Dept. of Mathematics, Sri Venkateswara University, Tirupati.

Sree Ranga Vani K and Prasada Rao D RV

(5-6 Jan 2015) Soret and Dufour effects on convective heat and mass transfer flow of a micropolar fluid past a vertical plate with chemical reaction, radiation absorption and heat sources. *National Seminar on Mathematical Modelling in Physical, Biological & Social Sciences at Degree level*, KSN Govt. Degree College for Women, Anantapur.

Physics

JOURNAL PAPERS

Surya S K Guduru, Petra Paiè, Serena Bolis, Roberto Osellame, Roberta Ramponi, Tersilla Virgili and Krishna Chaitanya Vishnubhatla (2014) Waveguide arrays for light harvesting in microfluidic chips. *Optical Engineering*, 53(7), 071811.

Surya S K Guduru, Francesco Scotognella, Luigino Criante, Rebeca Martinez Vazquez, Roberta Ramponi, Krishna Chaitanya Vishnubhatla (2014) Fresnel lenses fabricated by femtosecond laser micromachining on polymer one-dimensional photonic crystal. *Optical Engineering*, 53(7), 071813-071813.

Manuela T Raimondi, Michele M Nava, Shane M Eaton, Arianna Bernasconi, Krishna C Vishnubhatla, Giulio Cerullo, Roberto Osellame (2014) Optimization of femtosecond laser polymerized structural niches to control mesenchymal stromal cell fate in culture. *Micromachines*, 5(2), 341-358.

Mulpur Pradyumna, Podila Ramakrishna, Lingam Kiran, R Sai Sathish, K Venkataramaniah, Rao Apparao (2015) C60 as an active smart spacer material on silver thin film substrates for enhanced surface plasmon coupled emission. *Physical Chemistry and Chemical Physics*, 17, 10022 - 10027.

C Prathibha, Bipin Sharma, L A Avinash Chunduri, Sai Kiran Aditha, Tanu Rattan, K Venkataramaniah (2015) Nanocalcium Aluminum Mixed Oxide: A novel and effective Material for Defluoridation of Drinking water, *Separation Science and Technology*, DOI:10.1080/01496395.2015.1014914

Sandeep Patnaik, Sai Kiran Aditha, Tanu Rattan and K Venkataramaniah (2015) Aceclophenac-Soluplus® Nanocomposites for increased bioavailability. *Soft Nanoscience Letters*, 5, 13-20.

Pradyumna Mulpur, Aditya Kurdekar, Ramakrishna Podila, A M Rao and Venkata-

- ramaniah K (2015) Surface Plasmon coupled emission as a novel analytical tool for the sensitive detection of cysteine. *Nanotechnology Reviews* 2015, DOI 10.1515/ntrev. 2015-0003.
- V Lakshman Kumar, R S Sai Siddhardha, Adarsh Kaniyoor, Ramakrishna Podila, Murali Krishna Molli, Sai Muthu Kumar, K Venkataramaniah, S Ramaprabhu, A M Rao and Sai Sathish (2014) Gold Decorated Graphene by Laser Ablation for Efficient Electrocatalytic Oxidation of Methanol and Ethanol. *Electro Analysis* 26,1850–1857.
- A Jagadeesh, T Mimani Rattan, M Muralikrishna, K Venkataramaniah (2014) Instant one step synthesis of crystalline nano V₂O₅ by solution combustion method showing enhanced negative temperature coefficient of resistance. *Materials Letters* 121,133–136.
- L A Avinash Chunduri, Tanu Mimani Rattan, Muralikrishna Molli, and Venkataramaniah K (2014) Single step preparation of nano size gamma - alumina exhibiting enhanced fluoride Adsorption. *Materials Express*, 4.
- Pradyumna Mulpur, Kiran Lingam, Avinash Chunduri, Tanu Mimani Rattan, A M Rao and Venkataramaniah K (2014) Surface plasmon coupled emission studies on engineered thin film hybrids of nano Al₂O₃ on silver. *AIP Conference Proceedings*, 22, 1576.
- Molli Muralikrishna, Aditha Sai Kiran, Ravikanth, P Sowmendran, V Sai Muthukumar and K Venkataramaniah (2014) Optical nonlinear absorption characteristics of Sb₂Se₃ nanoparticle. *AIP Conference Proceedings*, 411, 1591.
- B Pfeiffer, K Venkataramaniah, U Czok, C Scheidenberger (2014) Atomic mass compilation 2012. *Atomic Data and Nuclear Data Tables*, 100(2014), 403-535.
- Benoy Anand, Krishnan S R, Ramakrishna Podila, Siva Sankara Sai S, A M Rao, and Reji Philip (2014) The role of defects in the nonlinear optical absorption behavior of carbon and ZnO nanostructures. *Physical Chemistry Chemical Physics*, 16, 8168.
- Lachit Saikia, Shah H, Prabin Pradhan, Muralikrishna Molli, Sai Muthukumar V, Basheer Ahamed, Manikandan, Siva Sankara Sai S and Venkataramaniah K (2014) Enhanced nonlinear optical absorption in mn doped zno Nanoparticles. *International Journal of Nanotechnology and Application (IJNA)*, 4(3), 39-44.
- Prabin Pradhan, Muralikrishna Molli, Lakshman Kumar, Lachit Saikia, Sai Muthukumar V, Siva Sankara Sai S, and Venkataramaniah K (2014) Study of nonlinear optical properties of sodium doped v₂o₅ nanoparticles. *International Journal of Nanotechnology and Application (IJNA)*, 4(3), 21-28.
- Benoy Anand, Kaniyoor, A, Swain D, Baby T T, Venugopal Rao, S Siva Sankara Sai, Ramaprabhu S and Philip R (Oct 2014) Enhanced Optical Limiting and Ultrafast Carrier Dynamics in Hydrogen Exfoliated Graphene Composites. *Journal of Materials Chemistry C*, 2, 10116-10123.
- Sai Vignesh T, Siva Subramaniyan V, Kumar T Rajamani, and Siva Sankara Sai S (2014) An Interactive GUI Tool for Thyroid Uptake studies using Gamma Camera. *IEEE-Explore*, 978-1-4799-3080-7/14.
- Prabin Pradhan, Ramakrishna Podila, Muralikrishna Molli, Adarsh Kaniyoor, V Sai Muthukumar, S Siva Sankara Sai, S Ramaprabhu and AM Rao (Jan 2015) Optical limiting and nonlinear optical properties of gold-decorated graphene nanocomposites. *Optical Materials*, 39, 185-187.
- Divvela Nanda Venkata Gopal, Sai Kishore Bhyri, R Gowrishankar (2014) Routing, wavelength assignment and spectrum allocation for reconfigurable optical mesh networks having a combination of fixed and flexible spectrum ROADM nodes. *Photonic Network Communications*, 28, 146-153.
- P C Sood, R Gowrishankar and Ashish Kumar Dora (2014) Level Structure in ²⁴⁰Np. *Physical Review C*, 89, 034308: 1-7.
- P C Sood and R Gowrishankar (2014) Configuration assignments to isomers in the neutron-rich ¹⁸⁶Ta (Z=73) nucleus. *Physical Review C*, 90, 067303: 1-4.
- N Sunil Kumar Reddy, Rajashekar Badam, Romala Sattibabu, Muralikrishna Molli, V Sai Muthukumar, S Siva Sankara Sai, G Nageswara Rao (2014) Synthesis, characterization and nonlinear optical properties of symmetrically substituted dibenzylideneacetone derivatives. *Chemical Physics Letters*, 616, 142-147.
- Sai Sathish R, R S Sai Siddhardha, V Lakshman Kumar, Adarsh Kaniyoor, V Sai Muthukumar, S Ramaprabhu, Ramakrishna Podila, A M Rao (2014) Synthesis and characterization of gold graphene composite with dyes as model substrates for decolorization: A surfactant free laser ablation approach. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 133, 365-371.
- Avinash Chunduri L A, Tanu Rattan, Muralikrishna Molli, Venkataramaniah K (2014) Single Step Preparation of Nano Size Gamma Alumina Exhibiting Enhanced Fluoride Adsorption. *Materials Express*, 4, 235-241.
- Vedavathi A, Ramakrishna Reddy K T and Munikrishna Reddy Y (2015) Role of Ammonia on Structural, Electrical, FTIR and Optical Studies of FeS₂ Films Formed by CBD. *IOSR Journal of Engineering*, 5 (2), 65-70.
- Suresh P, Thayaparan T, Obulesu T and Venkataramaniah K (2014) Extracting micro-Doppler radar signatures from rotating targets using Fourier-Bessel Transform and Time-Frequency analysis. *Journal of IEEE Transactions on Geoscience and Remote Sensing*, 52(6), 3204-3210.
- Suresh P, Venkataramaniah K and Thayaparan T (2014) Analysis of micro-Doppler Radar Signatures of Rotating Targets Using Gabor-Wigner Transform. *International Journal of Innovative Research in Science, Engineering and Technology*, 3(1), 1295-1299.
- Suresh P, Venkataramaniah K and Thayaparan T (2015) Fourier-Bessel transform and time-frequency-based approach for detecting manoeuvring air target in sea-clutter. *IET Radar, Sonar and Navigation*, 9(5), 481-491.
- Mulpur P, Podila R, Ramamurthy S S, Kamiseti V and Rao A M (2015) C60 as an Active Smart Spacer Material on Silver Thin Film Substrates for Enhanced Surface Plasmon Coupled Emission. *Physical Chemistry Chemical Physics*, 17(15), 10022-10027.
- Mulpur P, Kurdekar A, Podila R, Rao A M and Kamiseti V (2015) Surface Plasmon Coupled Emission as a Novel Analytical Platform for the Sensitive Detection of Cysteine. *Nanotechnology Reviews*, In Press.

CONFERENCE PAPERS

Shashidhar T G, Abishek H, Gangula Abilash, Krishna Chaitanya Vishnubhatla (20-22 Dec 2014) Laser Sintering of Silver Nanoparticles. *FINSTA'14, International Conference*

on *Frontiers in Nanoscience, Technology and Applications*, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, Andhra Pradesh.

Surya Guduru, Francesco Scotognella, Luigino Criante, Rebeca Martinez, Roberta Ramponi and Krishna Vishnubhatla (20-22 Dec 2014) Femtosecond Laser Fabrication of Binary Fresnel Lenses on Polymeric 1D-Photonic Crystal for Wavelength Selective Light Harvesting in Optofluidic Systems. *FiNSTA'14, International Conference on Frontiers in Nanoscience, Technology and Applications*, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, Andhra Pradesh.

Kamal Saurabh Yadav, G V Sai Manohar, K Vijay Sai, S Deepa, Dwarakarani Rao, R Gowrishankar and K Venkataramaniah (8-12 Dec 2014) Gamma and conversion electron measurements in ^{133}Cs . *59th DAE-BRNS Symposium on Nuclear Physics*, Banaras Hindu University, Varanasi. Proceedings of the DAE Symp. on Nucl. Phys. 59 (2014) 286.

Kamal Saurabh Yadav, Sai Manohar G V, Vijay Sai K, Deepa S, Dwarakarani Rao, Gowrishankar R, Venkataramaniah K (8-12 Dec 2014) Nuclear structure effect in the 223 keV M1 transition in ^{133}Cs . *59th DAE-BRNS Symposium on Nuclear Physics*, Banaras Hindu University, Varanasi. Proceedings of the DAE Symp. on Nucl. Phys. 59 (2014) 288.

Deepa S, Gowrishankar R, Vijay Sai K, Dwarakarani Rao, Sainath M and Venkataramaniah K (8-12 Dec 2014) On the observation of the $3/2+[411]$ and $1/2+[420]$ rotational bands in the decay spectroscopic studies on ^{153}Sm . *59th DAE-BRNS Symposium on Nuclear Physics*, Banaras Hindu University, Varanasi. Proceedings of the DAE Symp. on Nucl. Phys. 59 (2014) 302-303.

Viswanathan A S, Siva Sankara Sai S and Rao Govind (26-28 Feb 2015) Studying the factors affecting electrogenic activity in Microbial Fuel cells. *Recent trends in Microbial Biotechnology*, Osmania University, Hyderabad.

Viswanathan A S, Siva Sankara Sai S and Rao Govind (15-18 Mar 2015) Understanding electron transfer in Microbial Fuel cells using DREAM Assay. *International conference on Bacterial Electron Transfer Processes and their Regulation*, Vimeiro, Portugal.

Nandu T S, Boopala Krishnan N, Harsha Theja

K, Bibhuti Pattnaik, Anil P and Siva Sankara Sai S (14-17 Dec 2014) Simulative Analysis of Multimedia Traffic over LTE with Real Time Scenarios in Network Simulator-3. *Eighth IEEE International Conference on Advanced Networks and Telecommunications Systems (IEEE-ANTS)*, C-DOT, New Delhi.

Murali Ravi, Harsha Theja, Sivaramakrishnan S, Siva Sankara Sai S and Vijay Sai K (8-12 Dec 2014) Fully Digital Gamma Camera for Small Organ Imaging. *59th DAE-BRNS Symposium on Nuclear Physics*, Banaras Hindu University, Varanasi.

Santosh Kumar B, Sri Krishna Chaitanya Kotha, Govardan C, Anil P, Siva Sankara Sai S (14-17 Dec 2014) Demonstration of All-optical Switching Using a Biophotonic Material. *Eighth IEEE International Conference on Advanced Networks and Telecommunications Systems (IEEE-ANTS)*, C-DOT, New Delhi.

Boopala Krishnan N, Bibhuti Pattnaik, Sri Harsha Palla, Harsha Theja K, Siva Sankara Sai S and Jai Ganesh A U (14-17 Dec 2014) Demonstration of Body Area Network with e-Health sensors by IoT monitoring. *Eighth IEEE International Conference on Advanced Networks and Telecommunications Systems (IEEE-ANTS)*, C-DOT, New Delhi.

Podila Ramakrishna, Pradhan Prabin, Mollu Muralikrishna, Kaniyoor Adarsh, Muthukumar V Sai, Siva Sankara Sai S, Ramaprabhu S and A Rao (2-6 Mar 2015) Optical limiting and nonlinear optical properties of gold-decorated graphene nanocomposites. *American Physical Society (APS) March Meeting*, San Antonio, Texas, USA.

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Sainath M, Vijay Sai K, Gowrishankar R, Deepa S, K Venkataramaniah (8-12 Dec 2014) Low-lying 2qp structures in ^{244}Bk . *59th DAE-BRNS Symposium on Nuclear Physics*, Banaras Hindu University, Varanasi. Proceedings of the DAE Symp. on Nucl. Phys. 59 (2014) 282.

Prathibha C, Avinash Chunduri L A, Vishnu Dev B, Shankar M V, Venkataramaniah K (20-22 Dec 2014) TiO₂ nanotubes: A

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R Gowrishankar, S Hemkumar and P C Sood (8-12 Dec 2014) Features of Isomer Triplets in Transitional ($A=152-162$) Nuclei. *59th DAE-BRNS Symposium on Nuclear Physics*, Banaras Hindu University, Varanasi. Proceedings of the DAE Symp. on Nucl. Phys. 59 (2014) 62-63.

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Murali Ravi, Harsha Theja K, Sivaramakrishnan S, Siva Sankara Sai S, Vijay Sai K (8-12 Dec 2014) Fully Digital Gamma Camera for Small Organ Imaging-(G82). *59th DAE-BRNS Symposium on Nuclear Physics*, Banaras Hindu University, Varanasi. Proceedings of DAE Symposium on Nuclear Physics, 59 (2014) 988.

Sai Prem Shaji, Avinash B V, Avinash Chunduri L A, Gowrishankar R, Vijay Sai K, Venkataramaniah K (20-22 Dec 2014) Single Walled Carbon Nano Tubes as Promising and Highly Efficient Radiation Shielding Material. *FiNSTA'14, International Conference on Frontiers in Nanoscience, Technology and Applications*, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, Andhra Pradesh.

Aditya Jayaraman, Muralikrishna Mollu and Venkataramaniah K (16-20 Dec 2014) Effect of Sulfur Doping on Thermoelectric Properties of Tin Selenide – A First Principles Study. *59th DAE Solid State Physics Symposium*, VIT University, Vellore, Tamil Nadu.

Vedavathi A, Ramakrishna Reddy K T and Munikrishna Reddy Y (20-22 Dec 2014) Polycrystalline and Single Phase FeS₂ Films Grown by Chemical Bath Deposition. *FiNSTA'14, International Conference on Frontiers in Nanoscience, Technology and Applications*, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, Andhra Pradesh.

A Vedavathi, Y Munikrishna Reddy and K T

Ramakrihna Reddy (17-18 Oct 2014) Effect of Precursor Concentration on Structural and Optical properties of Iron Pyrite Thin Films by Chemical Bath Deposition Method. *International Conference on Nanomaterials and Nanotechnology (CNT-2014)*, Hyderabad, Procedia Materials Science (Elsevier). DOI: 10.1016/j.mspro.2015.06.051.

A Vedavathi, Y Munikrishna Reddy and KT Ramakrihna Reddy (30-31 Jan 2015) Investigation on Single Phase FeS₂ Films Grown by Chemical Bath Deposition. *National seminar on Nano Materials and Global Perspectives*, Govt. College for Men, Anantapur.

L A Avinash Chunduri, Aditya Kurdekar, Sandeep Patnaik, Vishnu Dev, Tanu Rattan, Venkataramaniah K (13-19 Apr 2015) Carbon Quantum Dots from Coconut husk: Green synthesis and evaluation of antioxidant and cytotoxic activity. *5th Virtual Nanotechnology Poster Conference*, Budapest, Hungary.

L A Avinash Chunduri, Pradeep E Bulagon-da, Mohan K Haleyurgirisetty, Tanu Mimani Rattan, Indira Hewlett, Venkataramaniah K (20-22 Dec 2014) Green Synthesis of Fluorescent Carbon dots from Coconut shell as fluorescent Labels for the detection of HIV-1. *FINSTA'14, International Conference on Frontiers in Nanoscience, Technology and Applications*, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, Andhra Pradesh.

C Prathibha, L A Avinash Chunduri, Vishnu Dev B, M V Shankar, Venkataramaniah K (20-22 Dec 2014) TiO₂ NanoTubes: A Novel and Efficient Defluoridation Adsorbent. *FINSTA'14, International Conference on Frontiers in Nanoscience, Technology and Applications*, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, Andhra Pradesh.

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Sai Kiran Aditha, L A Avinash Chunduri, Vishnu Dev B, Tanu M Rattan, Venkataramaniah K (20-22 Dec 2014) Cu₂ZnSnS₄ Synthesized through a Low Cost Reflux Method. *FINSTA'14, International Conference on Frontiers in Nanoscience, Technology and*

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Mulpur P, Kurdekar A, Podila R, Rao A M, and Venkataramaniah K (20-22 Dec 2014) Surface Plasmon Coupled Emission as a Novel Analytical Platform for the Sensitive Differentiation of Thiolated Amino Acids. *FINSTA'14, International Conference on Frontiers in Nanoscience, Technology and Applications*, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, Andhra Pradesh.

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Murali Ravi, Harsha Theja K, Sivaramakrishnan S, Siva Sankara Sai S, and Vijay Sai K () Fully Digital Gamma Camera for Small Organ Imaging. *59th DAE-BRNS Symposium on Nuclear Physics*, Banaras Hindu University, Varanasi. 59(988-989).

Mulpur P, Kurdekar A D, Podila R, Rao A M, Venkataramaniah K (20-22 Dec 2015) Surface plasmon coupled emission as a novel analytical platform for the sensitive detection of cysteine. *FINSTA'14, International Conference on Frontiers in Nanoscience, Technology and Applications*, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, Andhra Pradesh.

Chunduri A, Kurdekar A D, Patnaik S, Dev V, Tanu Rattan, K Venkataramaniah (13-19 Apr 2015) Carbon Quantum Dots from Coconut Husk: Green Synthesis and evaluation of antioxidant and cytotoxicity activity. *5th Virtual Nanotechnology Poster Conference*, Budapest, Hungary.

Chemistry

JOURNAL PAPERS

Rajni Bhandari, Chelli Janardhana (5 Apr 2015) Calcium-Zirconium-polyvinyl alcohol polymer composite film as a promising adsorbent for removal of fluoride from aqueous solution. *Desal-*

ination and Water Treatment, 1-7. DOI: 10.1080/19443994.2015.1027961.

Ganesh K M, Suryanarayana G and Chelli Janardhana (2015) Groundwater quality assessment by WQI and GIS tools in the villages of Bukkapatnam Mandal, Anantapur district, Andhra Pradesh (India). *International Journal of Advance Engineering and Research Development*, 2(4), 537-544.

Ganesh K M, Suryanarayana G and Chelli Janardhana (2015) GIS aided assessment of physico-chemical properties of the ground water from the villages of Puttaparthi mandal, Anantapur district, Andhra Pradesh (India), *International Journal of Advanced Research*, 3(4), 956-960.

A Sunil and S Jagadeeswara Rao (2014) Transition metal-oxo based catalytic sensing of chromium(III) using 1-(2-hydroxyphenyl) thiourea in activator and surfactant medium. *International Journal of Chemistry and Materials Research*, 2(10), 126-134.

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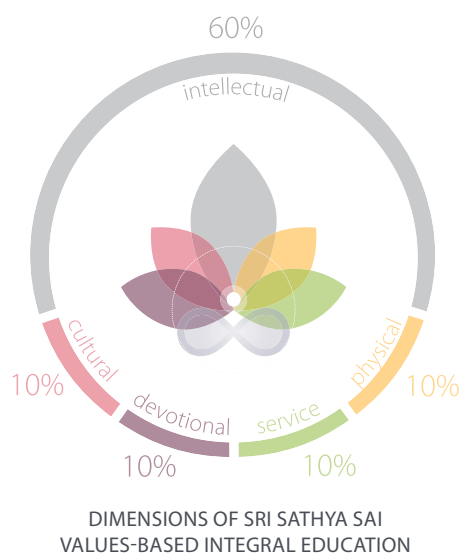
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OTHER EVENTS & ACTIVITIES



These dimensions of Integral Education at SSSIHL help students develop a wholesome & balanced personality.

Special Annual Events

There are five special annual events that relate to the devotional, cultural, physical and service dimensions of Sri Sathya Sai Values-based Integral Education.

They are orchestrated to bring out the latent values and good qualities in students and teachers. A lot of planning and effort goes into each of these events.

All students participate in these events in accordance with their individual skills and talents. Teamwork, cooperation, putting others first, honing of extracurricular abilities, building self-confidence and stretching one's self to perform to a higher degree are some of the many positive benefits of these events.

Summer Course in Indian Culture & Spirituality

13-15 June 2014

The Summer Course in Indian Culture & Spirituality serves as an introduction programme to all students and teachers of Sri Sathya Sai Institute of Higher Learning with an objective to expose students of the university to the rich cultural and spiritual heritage of *Bharat*. 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.

In 2014/15, the event took place from 13 to 15 June 2014 in Prasanthi Nilayam. All university students, teachers and research scholars attended.

The morning sessions consisted of talks by teachers and research scholars of the university and interactive sessions. Typically, they provided insights, concepts and lessons from the ancient Indian scriptures (such as The Ramayana and The Mahabharata) and spiritual personalities and concepts.



They also featured short video shows on Bhagawan Sri Sathya Sai Baba.

In the afternoons, students and teachers from all four campuses had breakout sessions where they discussed teachings and lessons from Bhagawan Baba's discourses. For the Summer Course 2014, the themes were From *Knowledge to Wisdom* and *Rise from Animality to Divinity*. Key moral messages from the discourses were creatively presented by students of each campus on the final day before the valediction.

The evening sessions on the first two days of the event consisted of music programmes by students of the individual campuses, along with *veda* chanting and *bhajans* at the Sai Kulwant Hall.

Perhaps the highlight of the day for students were the post-dinner *parayanam* sessions. They consisted of two to three talks by alumni or teachers who shared their personal experiences with Bhagawan Sri Sathya Sai Baba and the profound impact this had in shaping their lives. The valuable and profound life lessons and the sheer love that Baba had for His students and devotees was vividly communicated through these informal sessions.



Prasanthi Vidwan Mahasabha

27 September - 3 October 2014

Dasara or Navaratri is a ten day festival, usually falling in the month of October, and is celebrated all over India in the worship of the Divine as the Mother principle. Since the early sixties, the festival of Dasara in Prasanthi Nilayam has been closely associated with the *Veda Purusha Saptaha Jnana Yagna*. This *yagnam* is a week-long worship conducted in the Divine Presence in the Poornachandra Auditorium in Prasanthi Nilayam each year for the welfare of the whole world. The *yagnam* commences on the fourth day of Dasara and concludes with the *Poornahuti* – the final oblation that is offered on Vijayadasami, the tenth day.

The evening programmes during the seven days of the *yagnam* are held in Sai Kulwant Hall, under the auspices of the 'Prasanthi Vidwan Mahasabha', where many speakers—primarily students and functionaries of Bhagawan's institutions—address the gathering on topics concerning spirituality and philosophy, Bhagawan's teachings and experiences of devotees.

The topics for Prasanthi Vidwan Mahasabha 2014 were: Trusting Sai's Presence Within, The Love of the Divine Mother, The Glory of Dasara, Demystifying the Five Myths, Heart-to-Heart, Timeless Lessons from Swami's Physical Presence, Prakriti & Purusha- Practical Lessons of Spirituality, From Fear to Fearlessness, Qualities of the Divine, Important Aspects of Bhagawan's Teachings and Prayer for Enlightenment.



Sri Sathya Sai Grama Seva

24 September - 3 October 2014

For over 1300 young university students (and their teachers), nine days of their academic year is spent in the service of almost 300,000 village folk in over 150 villages. This includes distribution of food, clothes and other items, along with *bhajans*, thus converting the food into *prasadam*.

In 2014, Sri Sathya Sai Grama Seva took place from 24 September to 3 October.

The university students, research scholars and teachers largely managed the entire project—the planning, resourcing, organizing and implementation—from start to finish. This included:

- o Planning
- o Food Preparation
- o Packing
- o Logistics
- o Serving

Impact of Grama Seva

The Revered Founder Chancellor, when initiating this project in the year 2000, stressed that the greatest beneficiaries are not the villagers, but the students.

What impact does Grama Seva have on students and villagers?

ON STUDENTS

- o It inspires students to live their lives along a higher ideal
- o It sensitizes them to the problems of our society, to rural life and the needs of lesser privileged sections of the community
- o It trains students to work in teams and groups under constraints of time and resources
- o It enables them to appreciate the joy associated with service

ON VILLAGE FOLK

- o It kindles hope in their hearts, reinforcing their faith in the truth that God will take care of them
- o It inspires them. The *prasadam* distributed after *nagarsankirtan* and *bhajans* is symbolic of Bhagawan Baba's Divine love, compassion and grace, and of His assurance of protection
- o It provides them with food and clothes at the physical level, hope and faith at the mental level and bliss at the spiritual level



planning



food preparation



packing



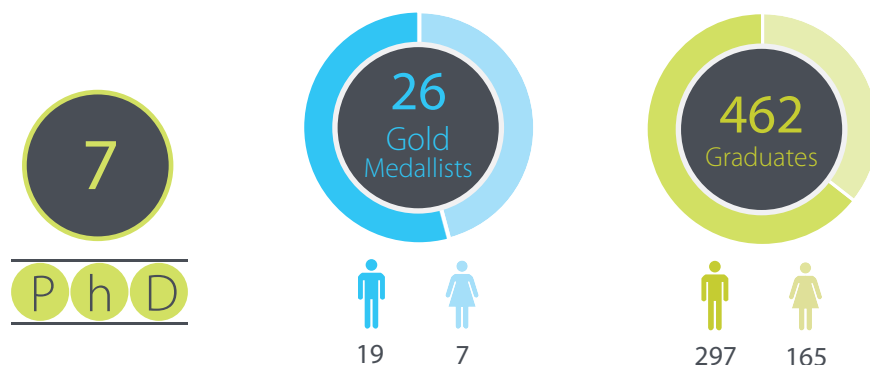
logistics



servicing

Annual Convocation

22 November 2014



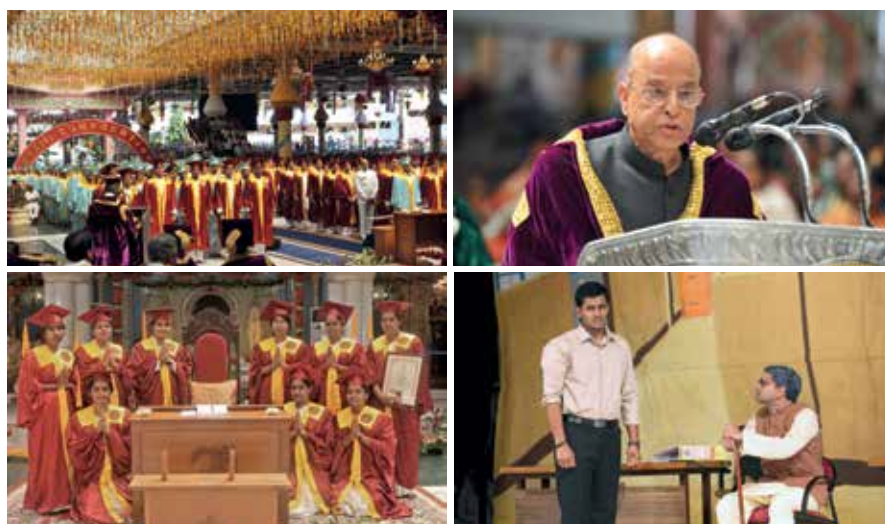
The 33rd Annual Convocation was held at Sai Kulwant Hall, Prasanthi Nilayam in the Divine Presence on 22 November 2014. Dr. Krishnaswamy Kasturirangan, Former Chairman, Space Commission, Former Secretary, Department of Space, Govt. of India and former Chairman, Indian Space Research Organization was the chief guest.

The programme included speeches by the Vice-Chancellor, the chief guest and the Revered Founder Chancellor (broadcast of a previous Convocation Discourse).

For the academic year 2014/15, a total of 462 graduands received their degrees, 7 students were awarded Ph.D.s and 26 students received Gold Medals for distinction in their respective subject areas.

The evening session commenced with the Sai Krishna Awards for Excellence in Teaching (see page 21 for further information). This was followed by the Annual Convocation Drama, performed by the students of the university.

Titled *Antaranga Sai*, the drama was based on the character of an SSSIHL alumnus who faced stiff tests on upholding his morality and principles in the wake of wicked men and manipulative circumstances that life threw at him. The drama charted his journey through these trials and tribulations—both in the office and in his personal life—and how he conquered them by focusing on Bhagawan Baba's love and teachings.



Ph.D. Awardees

Benoy Anand - Doctor of Philosophy in Physics
Nonlinear Optical Properties and Ultrafast Dynamics of Nanocarbons and ZnO Nanostructures

Suresh Penamati - Doctor of Philosophy in Physics
Real-Time Motion Compensation, image Enhancement and Feature Extraction of Moving Targets in ISAR

Abilash Gangula - Doctor of Philosophy in Chemistry
Studies on the Catalytic and Sensing Applications of Gold Nanoparticles

Robin Sharma - Doctor of Philosophy in Biosciences
*Antioxidant Capacity of Endophytic Fungi from Medicinal Plants: *Aegle marmelos* (L) Corr. Serr. (Bilva) and *Ocimum sanctum* Linn. (Tulasi)*

Sai Murali RS - Doctor of Philosophy in Biosciences
*Biological, Biotechnological, Molecular Docking, Spectroscopic and In vitro Functional Studies on Vasicine and Total Alkaloid Extract from *Adhatoda vasica* Nees*

S Sai Manohar - Doctor of Philosophy in Management
A Study of Innovation Culture of Leading Innovative Organizations

U Suma - Doctor of Philosophy in Commerce
Top Women Executives in India: An Exploratory and Descriptive Study (Exploring Structure and Agency in the Areas of Work Life Balance and Gender Bias)

Gold Medallists

Pinak Panigrahi - M.Tech. in Computer Science

Nandu T S - M.Tech. in Applied Optics

Ghajesh S - M.Tech. in Analytical Methods and Chemical Instrumentation

Shivam Chopra - M.B.A.

Madireddy Kundan - M.B.A. in Finance

Rahul Ranjan - Master in Financial Management

Pediredla Appala Naidu - M.Sc. in Mathematics

Sadhu Sai Pavan Prashanth - M.Sc. in Physics

Aditya Dileep Kurdekar - M.Sc. in Nanoscience & Nanotechnology

Soham Panda - M.Sc. in Chemistry

Ramakanta Biswal - M.Sc. in Biosciences

Tamvada J Manikant - M.A. in Economics

Sharath Balasubramanian - B.B.A.

Suraj Acharya - B.C.A.

Ananth V S - B.Sc. (Hons.) in Mathematics

Adhitya Sekhar - B.Sc. (Hons.) in Physics

Sai Satya Narayana V - B.Sc. (Hons.) in Economics

Ranjith Kumar D R - B.Com. (Hons.) in Commerce

M Mallikarjuna - B.A. (Hons.) in Economics

Haripriya V - Master of Education

Sura Anusha - M.Sc. in Food Technology

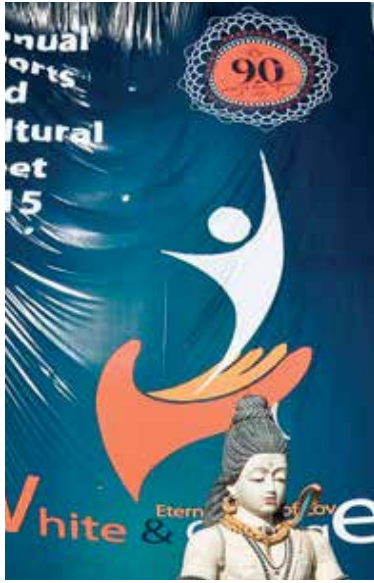
Sri Ram Sai Sudha Pradeepikarani - M.A. in English Language & Literature

Balabadruni Shantipriya - Bachelor of Education

Vidya S Menon - B.Sc. (Hons.) in Chemistry

Anusha Rai - B.Sc. (Hons.) in Biosciences

Krithika Lakshmi C - Bachelor of Arts



Annual Sports & Cultural Meet 2015

11-14 January 2015

We, the children of Sai, swear that, we shall take part in the Annual Sports & Games of Sri Sathya Sai Institutions, in fair competition; respecting and abiding by the rules which govern them and with a desire to participate in the true spirit of sportsmanship, for the honour of our country, the glory of sport and our beloved Mother Sai.

Sports Meet Oath, Sri Sathya Sai Educational Institutions

The four-day Annual Sports and Cultural Meet is the perfect example of the uniqueness of Bhagawan Sri Sathya Sai Baba's philosophy of values-based integral education practiced at all Sathya Sai educational institutions. It showcases the concept of a *modern gurukula*—where students and teachers live and grow together—at its very best.

For a period of three to four weeks, teachers and students ceaselessly work together towards one end- to put up a performance that will please their beloved Mother Sai. Each student is given an opportunity to highlight her or his talent and perform in the Divine presence. For some this may be athletics, for others it is fine arts and for yet others it is some form of physical display or cultural performance.

The Sports Meet is on 11 January. All Sai educational institutions (including the university) put on a grand display of physical prowess at Sri Sathya Sai Hill View Stadium to over 15,000 spectators. The cultural programmes then take place at Sai Kulwant Hall in Prasanthi Nilayam from 12 to 14 January. Each campus of the university performs a drama or musical presentation.

The five-day Sports & Cultural Meet culminates with the Prize Distribution ceremony for sports and cultural events.

Sports Events

11 January

Prasanthi Nilayam, Brindavan and Muddenahalli Campuses (combined) presentations:

- o Roaring Leos, a Lion Dance
- o Wheel Wizards
- o Bike stunts
- o Dance
- o Martial Arts
- o Jai Ho, Formations
- o Gymnastics
- o LED: Light Ends Darkness

Anantapur Campus presentations:

- o Bouncing Blues, Fitness drill
- o Wonder Wings of Sai, Mass drill

Cultural Events

12-14 January

- o Musical offering by the Brass Band of Brindavan Campus
- o Thus Spake Faith- musi-visual presentation by Anantapur Campus
- o Drama entitled *Sri Sathya Sai Avatara Rahasya* by students of the men's campuses

Prize Distribution Ceremony

14 January

The Prize Distribution Ceremony honours all students who excelled in both sports and cultural activities, not just during the Annual Sports and Cultural Meet, but throughout the academic year.

The event began with a grand procession comprising the university brass band, *veda* chanting students and a flag-bearing squad. A series of brief talks by four students of different institutions then highlighted

the significance of the event for the students and teachers involved. They narrated by various examples and incidences how the event highlights the bond of love between students and Bhagawan Sri Sathya Sai Baba.

Next, the Founder Chancellor's trophies were awarded to all the Sai educational institutions.

Following this, the list of winners was presented to Bhagawan Baba; and finally, the championship trophies were awarded. Given below are the champions for the academic year 2014/15.

Athletics Champions

Palla Pushpavathi

Postgraduate, Anantapur Campus

Sofia Lama

Undergraduate, Anantapur Campus

Gaurav D Verma

Postgraduate, Prasanthi Nilayam Campus

Amarendra Pratap Biswal

Undergraduate, Prasanthi Nilayam Campus

Praveen Kumar Reddy G

Brindavan Campus

Santhosh Basappa Nagouda

Muddenahalli Campus

Cultural Champions

Vandana Ramachandran

Postgraduate, Anantapur Campus

Priya Gurumoorthy

Undergraduate, Anantapur Campus

Balaram Khamari

Postgraduate, Prasanthi Nilayam Campus

Subrath Lama

Undergraduate, Prasanthi Nilayam Campus

Anirud Chathanath

Brindavan Campus

Anvit Manohar Hegde

Muddenahalli Campus

Fine Arts Champions

Annapura Rai

Postgraduate, Anantapur Campus

M Akshkala

Undergraduate, Anantapur Campus

Other Integral Education Activities

As highlighted in the diagram on page 13, all students spend 60% of their time at university on intellectual activities (primarily on their studies). The rest of the 40% of time is spent almost equally on activities related to the Integral Education dimensions of Devotional, Cultural, Physical and Service. These are highlighted below.

Devotional Dimension

- *Bhajans (Sankirtan)*
- *Vedic chants and stotrams*
- Meditation & Silent sitting
- *Suprabhatam* (prayer at dawn)
- Assembly (college prayer)
- *Brahmapanam* (food prayer)
- *Daily Kshama Prarthana* (night prayer)

The activities of the devotional dimension enable a student to connect to his/her Divine inner Self. This inner connection opens the heart and brings forth the feeling of love, compassion and empathy for fellow human beings.

Cultural Dimension

- Celebration of festivals:
 - Eid-al-Fitr, Independence Day, Sri Krishna Janamashtami (cow procession), Ganesh Chaturthi, Ganesh Immersion, Christmas Ugadi, Sri Ramanavami, etc.
- Brass Band
- Nadaswaram & Panchavadyam ensemble
- Annual Sports & Cultural Meet
- Performing Arts: Music programmes,
- Drama & Dance
- Fine Arts: Rangoli, Card making,
- Photography, Altar making
- Public Speaking
- Debates and Elocution

From the performing arts to public speaking to the fine arts, the cultural dimension is designed to give students wide opportunities to find an avenue to their individual artistic expression.

The university makes every effort to provide the best possible resources—both material and human—so that students excel at their chosen activity.

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.

Physical Dimension

- Sports
- Games
- Jogging
- Exercises and Yogasanas
- Annual Sports & Cultural Meet

Sports and games are a part of the daily routine of all students. From yoga classes to fitness training, from team sports to individual sports, students are encouraged to overcome their limitations and excel in these activities.

The university has excellent sports facilities.

Service Dimension

- Self-Reliance departments:
 - Electricals, Plumbing (water supply), Audiovisual, General store, Dispensary
 - Dietary services, Hostel mess, Arts & Crafts, costumes & props, etc.
- Community living
- Social Work
- Voluntary work
- Grama Seva (Annual Village Service)
- Prasadam Distribution

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, other than the deep inner satisfaction of serving others.

The compulsory residential system, 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), provides an excellent foundation for the service dimension.

Intellectual Dimension

Apart from academics and research, the activities in this dimension include:

Awareness Courses

These mandatory courses are designed to cultivate a broad view of the human condition in students. The course content (e.g. the Unity of Religions and Faiths, Study of the Indian Epics, etc.) helps trigger self-reflection and enquiry and sensitises students to the concerns of society, and gets them to think about practical solutions to these problems.

Thursday Moral Class

At each campus, Thursday mornings begin with an hour of inspiring and ennobling talks by speakers focusing on their personal spiritual experiences, messages from sacred scriptures and other elevated and socially relevant themes. It is also used to highlight students' talents in music, dramatics, elocution, debates, quizzes, etc. In 2014/15, topics included: Sai's Educare, Role of women in *Swacha Bharat*, WATCH, Where is Swami?, Conserve Water, Save the Future, etc.

Prayer Talks

Every morning before classes commence at the college, all students and teachers gather for the morning assembly. Prayers/*veda* chanting/*bhajans* and a few minutes of silent sitting are sometimes followed by a talk by students, faculty members or invited guests on topics related to morals and values. In 2014/15, topics included: Omnipresence of God, Experience with Sai, Purity of Heart, Swami as a Friend, Bhakti, Wish-fulfiller and Saviour, How Prayer and Fear are Interconnected, Faith and Belief, Power of Prayer, Concentration, Redefining Boundaries, Our Real Assets, Life and Football, Guru, Lessons Learnt at the Lotus Feet, etc.



Community Service

On their own volition, students and teachers of the university work with local communities around the campuses. Many of these service activities are conceived and inspired by students themselves. They are a reflection of the impact of the unique education they receive here. Examples of these from 2014/15 include:

Sai Bandhan

Brindavan Campus, April-May 2015

The Sai Bandhan program was a collaboration between students of Brindavan Campus, SSSIHL and Sri Sathya Sai Institute of Higher Medical Sciences (SSSIHMS), Whitefield, Bangalore.

It was a domiciliary outreach program where students set out to meet patients who had been previously treated at SSSIHMS, Whitefield. The objective was to assure the patients and their families of Sai's continued concern for their well-being and get feedback about their experience at SSSIHMS.

The program spanned 63 districts in 19 states of India, touching the lives of 250-odd patients. It involved 123 students who voluntarily chose to spend their summer vacation time in this selfless manner. The patients visited belonged to different sections of society. They were of diverse caste, creed, religion, age groups and economic strata.

All patient information was provided by SSSIHMS and the logistical support to meet them was extended by members of Sri Sathya Sai Seva organisation in the state concerned.

Students often had to travel to remote corners of their districts or neighbouring districts to meet patients. A few even travelled out of state to reach out to patients. Sometimes, they had to trace patients who had migrated to other places to pursue their studies or vocations after the pause button pressed by the disease had been released.

The hard work was handsomely rewarded however by seeing the patients supremely happy, in good health and with renewed hope in life.

Patient Response

The response from patients and their relatives was overwhelming. The very mention of Bhagawan Baba's name brought tears of joy to their eyes. Their eyes lit up when they came to know that Baba's students themselves had come to enquire about their welfare. They were deeply grateful to Him (and the doctors, nurses, technicians and *Seva dals* at the hospital) for stepping in and saving them from a hopeless future when economic considerations had put the treatment out of their reach.

Their outlook had changed since and they have become positive contributors to the

welfare of the same society from which they were once abandoned. They share the news of the existence of this hospital with all those in need. Indeed they have turned into self-appointed brand ambassadors.

From the students perspective, this trip has been most beneficial and enriching. Having set out with the idea of enquiring about the welfare of the patients, they returned with the feeling that they too are beneficiaries of this program. It was a humbling experience to see the impact of Swami's medicare project on the lives of poor people. Being the carriers of Sai's love, they returned with a renewed sense of responsibility to equip themselves with knowledge to serve their fellow men and put the unique education they receive in the portals of the Institute to best use.

Kodakarai Village Service

Brindavan Campus, 16-17 April 2015

Seventy students and seven teachers held a service camp at Kodakarai village, tucked away deep into the forest, ninety kilometres from the campus, in April 2015.

The village head and other elders were delighted to see university students from the city chanting the *vedas* and singing *bhajans* and enthusiastically joined the *nagarasan-keertan*.

The village school needed a coat of paint and a group of enthusiastic students



worked tirelessly to paint the interior and exterior of the school.

Another group had prepared *Sai Deep*, a device using a soda bottle and chlorinated water sealed in it to refract sunlight into the dark rooms of the tiled houses of the villagers. These solar water bulbs can transmit enough light as a 40- to 60-watt incandescent bulb to the interior of village homes and can last up to five years.

Another set of students engaged the village children in games and activities such as a drawing competition and teaching them *stotrams*, *bhajans* and lessons in hygiene.

The remaining students plunged into cutting vegetables and rolling *chapatis* for women folk, all while singing *bhajans*.

When the students were getting into the vehicles to leave for Brindavan, the innocent children came and asked if they really had to go so soon!

Old Age Home Visit

Muddenahalli Campus, 14 April 2015

The final year undergraduate students of the campus, accompanied by staff members, paid a visit to an old age home, Sri Sai Dwarakamayee Vriddhashrama, at Sultanpet, Nandi village, near Muddenahalli, on 14 April, 2015.

Following a prayer session at the Shirdi Sai Mandir in the village, *veda* chanting and *bhajan* singing, prepared food was served as *prasadam* to the residents as a '*naivedyam*' offering. For those who were immobile, food was served at their bedside.

The elders were then personally handed over a small toiletry kit each. This was followed by a brief speech in Kannada by one of the students, expressing (on behalf of his batch) their heartfelt gratitude and joy of being in their company.

The students interacted with all the residents, enquired about their well being and sought their blessings. They were very touched and moved by the life stories of the seniors living there. They realized the importance of the vedic dictum '*Mathru devo bhava, pitru devo bhava* (Mother is God, father is God)'.
Before leaving, mattresses and plastic buckets were given away for use at the old age home.

Leper Colony Adoption

Anantapur Campus, 1986 to date

The campus warden, with the help of students and alumni, has adopted a leper colony since 1986.

Aptly named *Love Stream*, the project has helped transform the lives of twenty-five

socially marginalized families through dedicated love and care.

The colony that consisted of 10-12 huts in 1986 now has twenty neat little houses. The creatively raised capital has funded water pumps, stationery items, food supplies and even fifty trees so that they can sell their own fruits and earn an income. As a result, almost every family now has its own bank account.

Practicing human values, *bhajan* singing, educating the inhabitants in various ways—these are some of the ways that the warden and students have taken time out to help the lepers with.

The long-term objective is to make the families as self-sufficient as possible.

Narayana Seva

Anantapur Campus, every Semester

The campus undertakes *Narayana seva* every semester in a slum, a little distance from the campus. The *seva* consists of the distribution of 250-270 packets of cooked rice to the slum dwellers.



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Dear students!

Be like the star which never wavers from the crescent- but is fixed in steady faith.

When the sun is over your head; there will be no shadow; so too when faith is steady in your heart; it should not cast any shadow of doubt.

Do not talk ill of others; talk only of the good in them; all are good; if you see bad in them, it is because there is bad in you; if you do not like someone, do not mix with him.

Grace is the sunlight- which will ripen the fruit; Sadhana is the sap which rises from earth. Both are needed by the tree in order that it may yield fruit.

With Blessings
Pank.



The end of knowledge is wisdom
SRI SATHYA SAI BABA

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A decorative flourish consisting of a central circular motif with two curved lines extending outwards, positioned below the website address.