

SRI SATHYA SAI INSTITUTE OF HIGHER LEARNING

Annual Report 2010/11



Sri Sathya Sai Institute of Higher Learning ANNUAL REPORT 2010/11

"This University has been established not merely to prepare you for earning degrees. The main purpose is to cultivate **Selfknowledge** and **Self-realisation**. Teaching the curricula, preparing you for the examinations and awarding degrees are only the means employed for the end, namely **spiritual uplift, self discovery** and **social service** through **love** and **detachment**."

Bhagawan Sri Sathya Sai Baba

Revered Founder Chancellor

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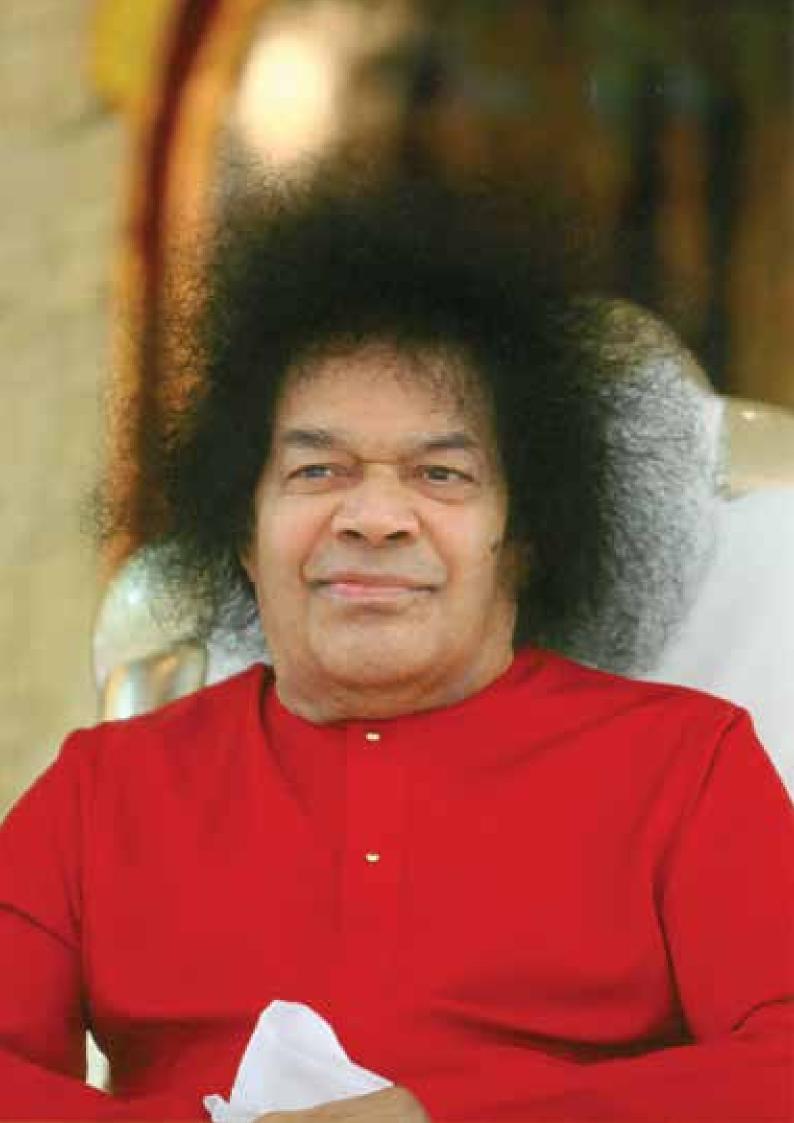
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1 OVERVIEW

1.1 INTRODUCTION

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

The Deemed to be University hosts **three** campuses which are at **Anantapur** (in Andhra Pradesh), **Kadugodi**, Whitefield, Bangalore (in Karnataka), and at **Puttaparthi** (in Andhra Pradesh).

The **Anantapur** campus is for women students, while the **Brindavan** campus at Whitefield and the **Prasanthi Nilayam** campus at Puttaparthi are for men students.

"Education must teach a person what life is, and what its goals are. It must purify the heart and clarify the vision. It must prevent pollution of the hand, heart and head by habits injurious to the individual, society and the nation. It must promote virtues and raise the moral and spiritual standards of the educated".

> Bhagawan Sri Sathya Sai Baba Revered Founder Chancellor

The need for fundamental change

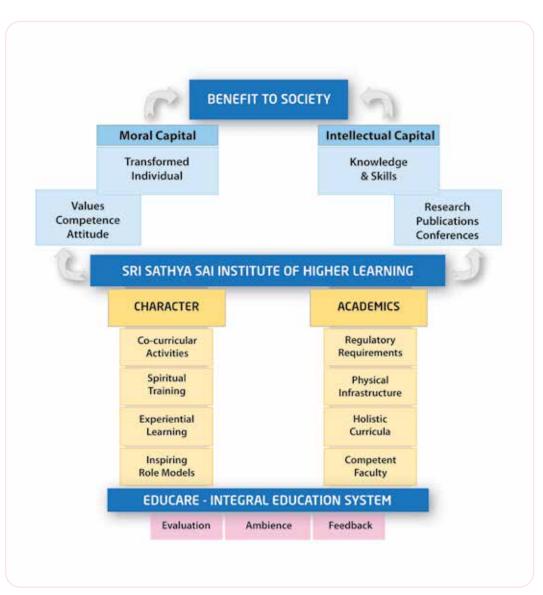
The world today seems to be passing through a crisis of search for peaceful and happy living. Despite affluence of various kinds, man is still thirsting for true love, inspiration and trust. All nations across all cultures instinctively place their hopes for a better life and future on their children and younger generations. More often than not, this hope, however well-intended – is without a plan for the development of tools that will equip students to usher in this change as future citizens.

This ultimately begs the following question: *are we educating our children to be students who can reverse this trend towards self-degradation in every facet of human life*? If today's students are to provide the answer to tomorrow's problems, then the education we impart *today* is highly significant.

Providing Integral Education

Right from its very inception, the Sri Sathya Sai Institute of Higher Learning has always believed in **integrating ethics and values as the undercurrent of every subject** taught at the University. Combined with academic excellence, the University provides a holistic framework of inter-personal development for its students. Its compulsory residential character trains the mind, body and spirit of the student in an environment similar to the ancient Indian 'gurukula' system of education, in the most modern context.

In this manner, the University strives at every level to blend both the **Academic** (Secular) Pillar of learning with that of **Character Building** (Spiritual), as depicted in the diagram below.



SSSIHL TEMPLE OF LEARNING



VISION



spiritually aware

professionally sound

Spiritual

socially responsible

Emotional

Psychological

Intellectual

Physical

EDUCARE

MISSION

The Revered Founder Chancellor always stressed thus: "Education must broaden the heart; it must expand one's love...Fortitude and equanimity belong to the Reality in man. One must reveal this fact in every act."

The Deemed to be University designs a curriculum that is both challenging and relevant, and one that encompasses the Revered Founder Chancellor's vision of Integral Education. It aims at developing students into competent individuals and responsible citizens with sound character.

1.2 VISION, MISSION AND PHILOSOPHY

The holistic approach to education that SSSIHL imparts is based completely on the life, teachings and direct precepts of its Revered Founder Chancellor, Bhagawan Sri Sathya Sai Baba. Below is a brief introduction to the University's Vision, Mission, and Philosophy as laid down by its Revered Founder Chancellor.

The Vision

To assist generations of students acquire Self-knowledge (*Atma Vidya*) and Self-confidence (*Atma Vishwas*), so as to cultivate Self-sacrifice and earn Self-realisation; thereby moulding them into leaders who will benefit society.

The Mission

To mould well-rounded holistic individuals – professionally sound, socially responsible and spiritually aware – who embody noble values and a right attitude, through Educare (*Integral Education based on Human Values*) that caters to the physical, intellectual, emotional, psychological and spiritual dimensions of the human personality.

The Underlying Philosophy

On the occasion of the inauguration of the Institute, the Revered Founder Chancellor highlighted its uniqueness in the existing University education system. Emphasizing the differentiating factors, he said, "This University will not be imparting in Botany merely the knowledge of trees in nature; it will spread the knowledge of the tree of true living. It will not be imparting the knowledge merely of Economics; the knowledge of theistic ethics too will be included. It will not be teaching mere Chemistry; it will also unravel the mystery of Raso Vaisaha - the Supreme Embodiment of nectarine sweetness - the Atma. It will teach not only the science of the material world (Paraartha); it will also teach the science of the non-material world (Paraartha). It will not differentiate the material from the non-material or treat the non-material as irrelevant to the material.



We have decided that this shall be the uniqueness of this University. This will not be like all other universities which adopt a few faculties and burden their alumni with degrees, which they can present as begging bowls while clamouring for jobs. This University will confer on its alumni the courage and confidence, the knowledge and skill to shape their careers by their own efforts, relying on their strength. So we have proposed that spiritual education be integrated harmoniously with ethical, physical, and metaphysical teachings in this University."

This eventually went on to become the core philosophy of the University.

Elaborating the purpose and philosophy of the University, the Revered Founder Chancellor says, "This Institute has not been established just to prepare you for earning degrees...Teaching you the University curricula, preparing you for the university examinations, and awarding you university degrees – these are only means employed for the end, namely – spiritual uplift, Self-discovery and social service through love and detachment. Our objective is to provide the youth with an education, which while cultivating their intelligence will also purify their impulses and emotions, and equip them with the physical and mental disciplines needed for drawing upon the springs of calmness and joy that lie within their own hearts. Our hope is that by their lives, they will be shining examples of spiritual awareness and its beneficial consequences to the individual and society."

1.3 EDUCARE - THE HOLISTIC FOUNDATION OF SSSIHL

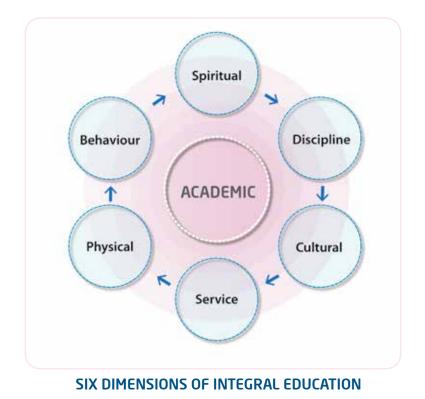
"Blessed indeed are the students who have had the privilege of going through an education programme which combines deep appreciation of the method of modern science and technology and the ancient Indian knowledge and wisdom accumulated over the centuries. This type of education can be a powerful means of self-perfection and social redemption."

> Dr. Manmohan Singh, Finance Minister of India Currently Prime Minister of India

At any higher educational institution, academics is the primary focus in a student's life. At the Sri Sathya Sai Institute of Higher Learning, the very concept of education is looked upon holistically.

The Revered Founder Chancellor says, "The term education is derived from the Latin term 'Educare', which means 'drawing out'. The idea is to draw out what is already latent. Acquisition of knowledge is a worldly aspect. But what has to be discerned is the divine feeling present in the human heart."

The model of integral education at the University helps students develop a wholesome and balanced personality, one where academic competence is supplemented with good character, noble attitudes and values, social sensitivity and spiritual awareness.



educare

Students – both women and men – typically spend between two to five years pursuing an undergraduate and/or postgraduate education at SSSIHL. On graduation, they are well-qualified to find suitable employment related to their academic backgrounds.

However, **what makes them distinctive** from graduates of other universities is not just the training of their minds, but also the transformation of their hearts.

This is reflected in the manner in which SSSIHL alumni pursue their lives after graduation. Their vision of life is guided by the **character building** that their time at SSSIHL has infused, where a lot of emphasis is laid upon **applying their knowledge for benefit to society**. This emphasis is much more qualitative than quantitative, and a Sai Student instinctively knows that.

An Ideal Sai Student

In the words of the former Director General of CSIR-India, Dr. R A Mashelkar, the University strives to produce students with *"innovation in the head, compassion in the heart and passion in the belly"*.

The objective is to ingrain a balanced outlook, which is provided by the interface of the heart with the head and hands.

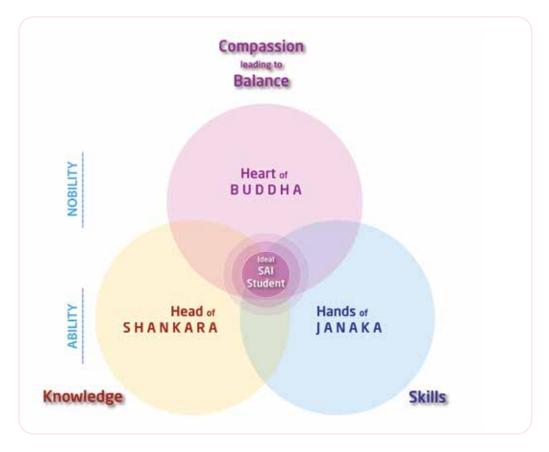
The diagram of '**An Ideal Sai Student**' depicts this balance. The component of the 'heart' is usually not catered to in the conventional system of education. Thus, the University aims at producing good human beings with an ideal blend of ability and nobility.

The Revered Founder Chancellor observes, "Knowledge, when skilled, leads to balance which in turn provides insights about the application of knowledge for the benefit of society." He therefore desired (as shown in the diagram that follows) that students graduating from this University should possess:

- the "Head of Shankara" that symbolizes knowledge leading to wisdom;
- the "Hands of Janaka" that symbolizes knowledge translated to skills for societal benefit
- the "Heart of Buddha" that symbolizes compassion to balance the head with the hands







AN IDEAL SAI STUDENT

Distinctive Features

Some of the **distinctive features** of this University are:

INTEGRAL EDUCATION

- Lessons learnt through the inspiration and message of the Revered Founder Chancellor – Bhagawan Sri Sathya Sai Baba
- Integrating values with secular knowledge through curriculum and classroom teaching
- Integral education with equal emphasis on curricular and co-curricular activities
- Inculcating the spirit of self-reliance and service to society
- Fuller utilisation of national holidays and important festivals for educational purposes and extension work
- Synthesis of science and spirituality for societal benefit

ADMISSIONS

- Free education for all students
- Merit based open admission policy for all irrespective of income, religion or region

RESIDENTIAL CHARACTER

- Compulsory residential character enabling translation of lessons learnt into practical skills through experiential learning
- D Spiritual ambience in an environment of discipline
- ¹ Teaching faculty and research scholars residing in the hostel
- Cultivation of the spirit of self-reliance, brotherhood and sacrifice through mentoring and personal example

ACADEMICS

- Curriculum rooted in Indian culture and Universal brotherhood
- Awareness Programmes and Moral Classes reinforcing Human Values
- Integrated five year programmes combining Undergraduate and Postgraduate studies for a systematic and graduated learning process
- Professional programmes in Management, Technology and Education
- Research with social relevance
- Favourable teacher-pupil ratio

INFRASTRUCTURE

- Campuses set in beautiful surroundings full of peace, greenery and inspiring landscapes
- Spacious, elegant and aesthetically designed buildings
- Well equipped, modern science laboratories and Instrumentation centres
- Libraries across campuses; with 1,50,000 volumes for a student base of 1,200
- Computer centres with ultra-high speed broadband internet connectivity
- Well-equipped Multimedia learning centres
- International Centre for Sports and a Cricket stadium

The **concept of integral education** that SSSIHL imparts is willingly pursued by all the internal stakeholders of the Institution: the teaching faculty, staff and students.

"In this University the medium of instruction is discipline. The first, second and third languages are love, service and sadhana (spiritual discipline)..."

Bhagawan Sri Sathya Sai Baba Revered Founder Chancellor



1.4 HISTORY & TIMELINE

The following are the landmark moments in SSSIHL's history:



Early 1950s	Sri Sathya Sai Baba, at age 25, mentions that there will be a University in Puttaparthi, Andhra Pradesh (a hamlet with a population of less than 100) in the future
22 July 1968	Sri Sathya Sai Arts and Science College for Women at Anantapur is inaugurated
9 June 1969	Sri Sathya Sai Arts, Science and Commerce College for Men at Kadugodi, Whitefield, Bangalore is inaugurated
7 November 1969	The foundation stone for the new building of Sri Sathya Sai Arts and Science College for Women, Anantapur, is laid
8 July 1971	The new building of the Sri Sathya Sai Arts and Science College for Women, Anantapur is inaugurated
May 1972	The first Summer Course in Indian Culture and Spirituality organised at Whitefield, Bangalore
19 May 1978	Sri Sathya Sai Arts, Science and Commerce College, Brindavan – College building and Library is inaugurated
28 October 1978	Govt. of Andhra Pradesh sanctions a degree college in Puttaparthi, Andhra Pradesh
21 November 1978	Foundation stones for the College, Auditorium and Hostel buildings at Prasanthi Nilayam, Puttaparthi are laid
1 July 1979	Sri Sathya Sai College at Prasanthi Nilayam is inaugurated
18 November 1980	Main College building of Sri Sathya Sai College at Prasanthi Nilayam is inaugurated



25 December 1980	Inauguration of the Hostel building at the Prasanthi Nilayam
31 October 1981	Sri Sathya Sai Institute of Higher Learning (Public Charitable Trust) is established
10 November 1981	Sri Sathya Sai Institute of Higher Learning is declared as a Deemed to be University, under Sec. 3 of the University Grants Commission (UGC) Act, 1956
22 November 1981	Sri Sathya Sai Institute of Higher Learning (SSSIHL), Deemed to be University is established
1 June 1982	Five year Integrated Programmes in Mathematics, Physics, Chemistry, Biosciences and Commerce from B.Sc. to M.Sc., B.Com. to M.Com. are introduced
October 1982	Sri Sathya Sai Arts, Science and Commerce College, Brindavan becomes part of SSSIHL
22 November 1982	Administrative Building of SSSIHL is inaugurated
1 June 1984	Ph.D. Programmes are introduced for all Postgraduate departments
22 November 1985	Sri Sathya Sai Central Library at the Prasanthi Nilayam Campus and Sri Sathya Sai Space Theatre, a modern Planetarium are inaugurated
July 1986	Sri Sathya Sai Baba, Revered Chancellor, announces free education for all students. This includes waiver of all fees, like tuition fees, examination fees, laboratory fees, library fees, sports fees, medical fees, etc.
August 1986	The Faculty of Business Management & the Department of Education are set up at SSSIHL



	June 1988	Sri Sathya Sai Centre for Computer Sciences is established at the Prasanthi Nilayam Campus					
	Summer 1990	The first Summer Course in 'Indian Culture and Spirituality' is held for the students of SSSIHL					
	1991 - 1993	This period sees the expansion and introduction of both Undergraduate & Postgraduate courses across all campuses, including: Economics, Mathematics, Statistics, Physics, Chemistry, Biosciences, Botany, Zoology, Computer Science, Fiber Optics and Digital Image Processing					
		All the B.Sc. Programmes are upgraded to B.Sc. (Hons.) Programmes. The B.Com. Programme is also upgraded to B.Com. (Hons.) Programme.					
	June 1993	M.Tech. (Computer Science) Programme in the Department of Mathematics & Computer Science and M.Tech. (Applied Optics) Programme in the Department of Physics are introduced					
	31 October 2000	'Sri Sathya Sai Grama Seva' programme is launched by Bhagawan Sri Sathya Sai Baba. This rural service activity is an annual event in the University Calendar, where the staff and students of the University and allied educational institutions, distribute food, <i>laddus</i> and new clothes as <i>prasadam</i> to each and every house, in all the nearby villages					
	June 2001	The M.A. (Economics) Programme is introduced					
	23 April 2003	The National Assessment and Accreditation Council (NAAC) grants the accreditation of A++ level to the Institute. This places SSSIHL in the top grade of Indian Universities					
	28-30 October 2003	A Golden Jubilee seminar of Vice-Chancellors on the theme 'Values Education and Ethics' is hosted by SSSIHL at the request of the UGC					



November 2004	M.Phil. Programmes are introduced for all Postgraduate departments
17-18 August 2005	"Education for the 21 st Century: Education to Educare" conference held at SSSIHL as part of 80 th Birthday celebrations of its Revered Founder Chancellor, Bhagawan Sri Sathya Sai Baba
26 August 2006	State of the art Multimedia Learning Centres (which connect all the campuses via video conferencing facilities) are established at the Prasanthi Nilayam and Brindavan campuses. Additionally, a new Humanities building is inaugurated at the Prasanthi Nilayam Campus. This marks the 25 th Anniversary of SSSIHL
14 February 2009	Foundation of SSSIHL Muddenahalli Campus is laid
June 2009	M.Sc. Nanoscience & Nanotechnology Programmes are introduced in the Department of Physics
4 June 2009	A Multimedia Learning Centre is inaugurated at the Anantapur Campus (enabling concurrent video conferencing between all campuses). A fully- equipped, 50-seater modern English Language lab is also inaugurated
28-29 August 2009	A national conference on "Ethics and World of Finance" is held at Prasanthi Nilayam. Leading personalities from the finance industry, including Governor, Reserve Bank of India, and 30 CEOs of leading global banks attend
22 November 2010	29 th Convocation of the University coincides with the 85 th Birthday celebrations of the Revered Chancellor
8 January 2011	SSSIHL is granted re-accreditation with 'A' Grade and a Cumulative Grade Point Average (CGPA) of 3.625 on a scale of 4.00 by the NAAC. Thus, the University continues to be in the top bracket of Indian Universities



2 THE YEAR IN REVIEW



2 THE YEAR IN REVIEW

This section highlights the achievements of the Sri Sathya Sai Institute of Higher Learning during the Academic Year 2010/11.

An introduction by the honourable Vice-Chancellor, Prof. J Shashidhara Prasad, is followed by a statistical summary of the year in all areas of the University – Academic achievements, research, admissions and integral activities. Also included are statistics about current teaching faculty, students and facilities.

All the current statistical achievements are benchmarked to those during previous years and/or to national averages (where applicable). They are highlighted through information graphics or infographics – which help present complex information crisply and clearly.

2.1 VICE-CHANCELLOR'S MESSAGE



Prof. J Shashidhara Prasad Vice-Chancellor, SSSIHL

Sri Sathya Sai Institute of Higher Learning founded by Bhagawan Sri Sathya Sai Baba, in its three decades of existence, has successfully shown how values-based integral education can produce graduates and postgraduates, not only with high academic caliber but also endowed with high moral and ethical values and are an epitome of humility, selflessness and love for humanity. Bhagawan Baba spared no effort to give proper orientation and guidance to the Institute in its formative years so that values were seamlessly blended with academic programmes. In the early years, greater stress was given to teaching and systematic integration of values into the curriculum. The University established itself as a good teaching institution as indicated by the employment of our students in reputed organizations and the results in national level examinations.

Later, Beloved Bhagawan gave greater stress on research and development with the proposal for an Advanced Centre for Research. The research output has increased substantially as indicated by the publications in reputed journals. This, in turn, has helped the faculty obtain financial support for research from several funding agencies – both government and private. As per the wish of Bhagawan, clearance has been sought to start a new campus at Muddenahalli, Chikkaballapur district, Karnataka. New courses have also been envisaged taking into view new opportunities.

Bhagawan Baba always cautioned us to strictly adhere to the requirements of statutory bodies like University Grants Commission (UGC), National Assessment and Accreditation Council (NAAC) and follow the regulations of the government. In fact, we can convincingly say that Sri Sathya Sai Institute of Higher Learning is one of the few Deemed to be Universities which has strictly adhered to the regulations as and when they came into force. The annual report of the year has been brought out in full colour and in a new format. This redesign is an effort to highlight the achievements, activities and salient features of the University in a clear and crisp manner.

Our beloved Bhagawan, the Avatar of the Age, has left his physical form/individual consciousness and has assumed the infinite form and divine/cosmic consciousness. We earnestly pray to HIM to guide us and bless us in our endeavour to take His Institution to greater heights and train ambassadors of His Mission for the transformation of the individual and the world at large.

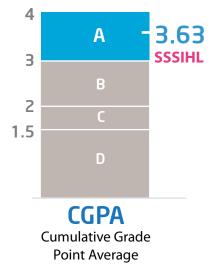
JShashidhara Prasad

J Shashidhara Prasad

2.2 HIGHLIGHTS OF THE YEAR

RE-ACCREDITATION

'A' Grade Re-accreditation granted by The National Assessment and Accreditation Council (NAAC) *Valid*: 8 Jan 2011 to 7 Jan 2016

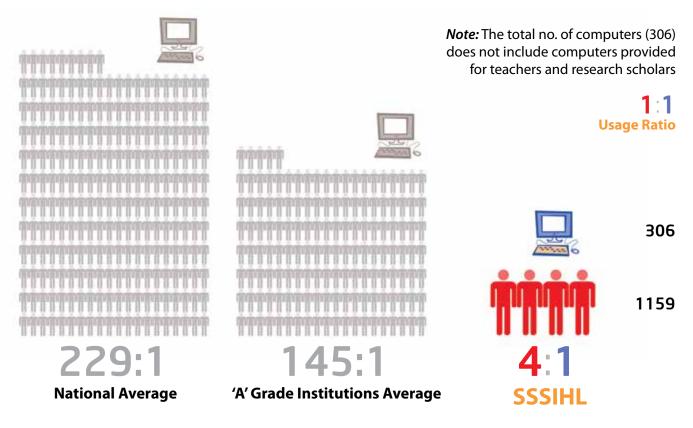


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SSSIHL is among the top **7%** of 84 Indian Universities reaccreditated by NAAC under the new methodology

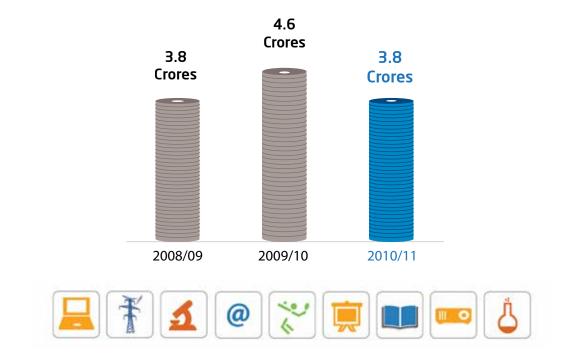
Source: NAAC, 16 Sept 2011

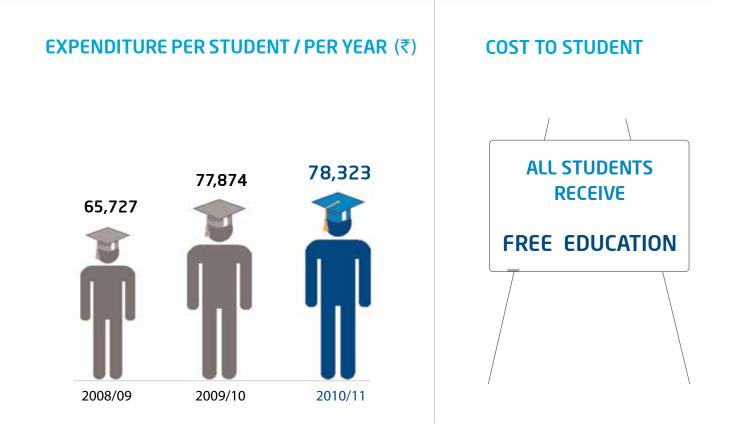
STUDENT TO COMPUTER RATIO



Source: UGC Report, Strategies and Schemes during Eleventh Plan Period (2007-2012) for Universities and Colleges, Jan 2011

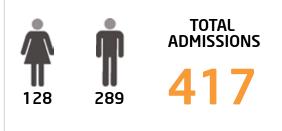
EXPENDITURE ON EQUIPMENT & INFRASTRUCTURE (₹)



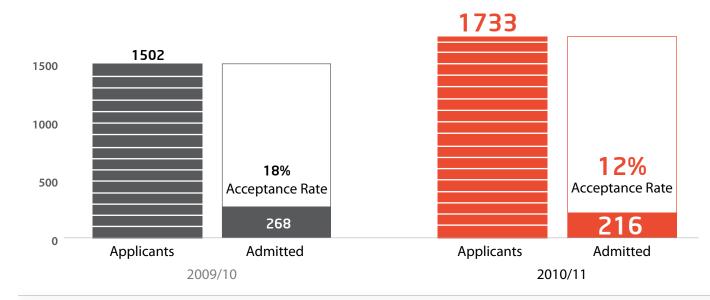


ADMISSIONS

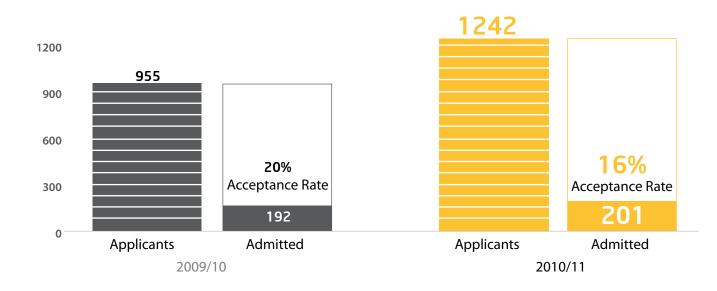
Admissions Tests were held from **3 to 18 May 2010** at the Prasanthi Nilayam Campus for all programmes of study – Undergraduate, Postgraduate, Professional and Research.



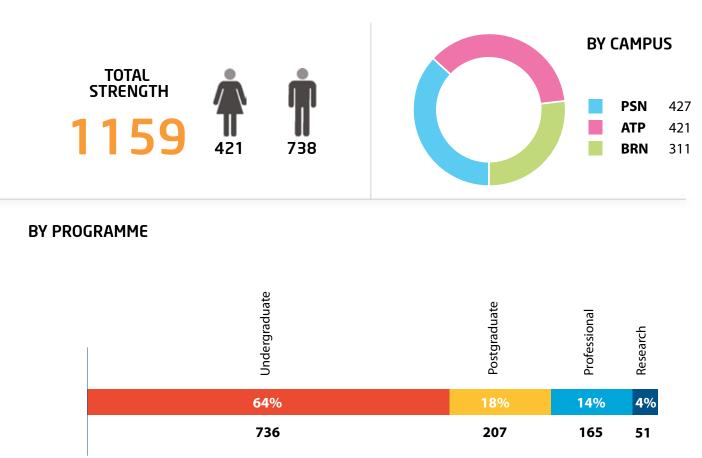
UNDERGRADUATE Applications vs. Admissions



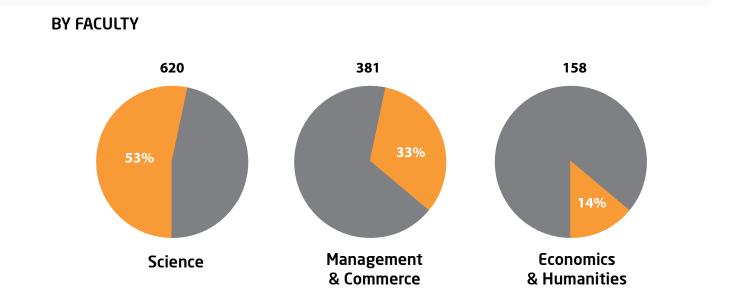
POSTGRADUATE Applications vs. Admissions



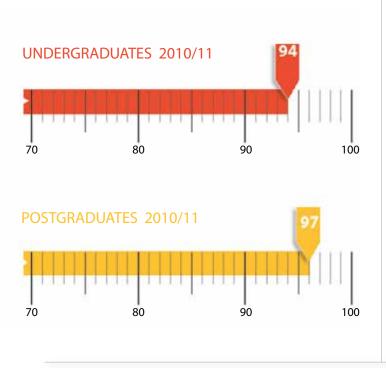


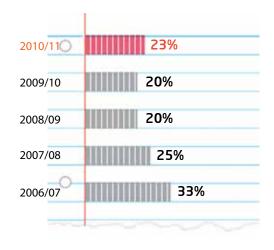


National Average of Research Students in Higher Education is **0.7%** per Institution *Source: UGC Report, 2011*



ACADEMICS | Achievements

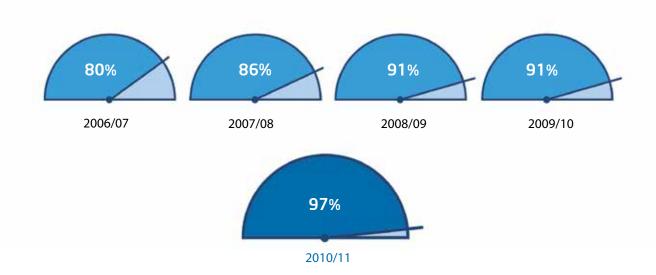




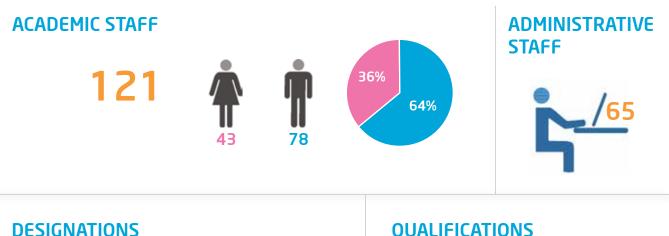
In the past five years, each year, over 24% of Postgraduate students qualify in these examinations, a figure much higher than the national average.

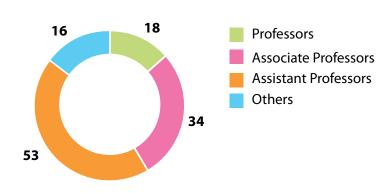
PROJECTS AND DISSERTATIONS

Percentage of Postgraduate & Professional students who undertook Projects / Dissertations



ACADEMICS | Staff





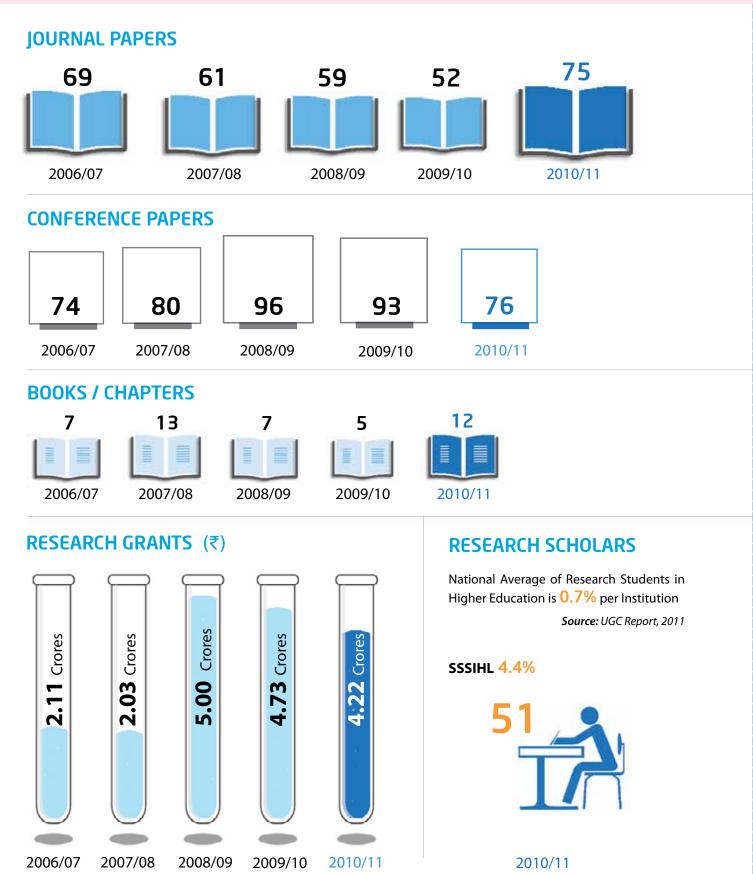
QUALIFICATIONS



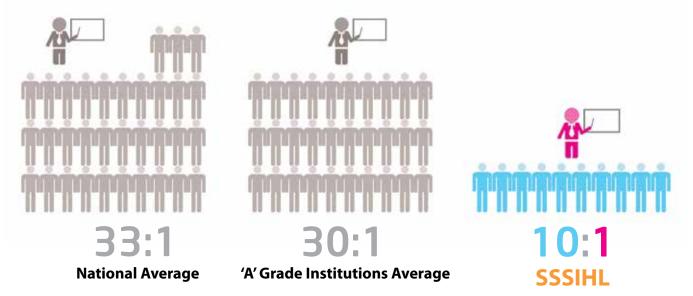
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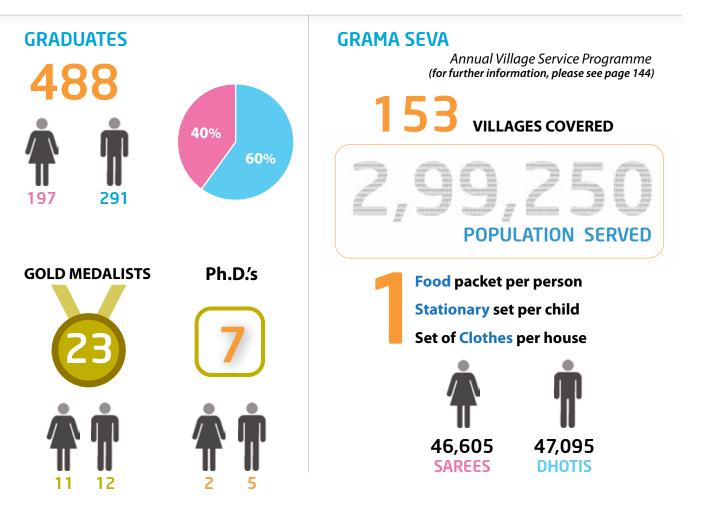
ACADEMICS | Research



STUDENT - TEACHER RATIO



Note: The above reflects full-time faculty *Source:* UGC Report, Strategies and Schemes during Eleventh Plan Period (2007-2012) for Universities and Colleges, Jan 2011



Administrative Building, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam

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3 UNIVERSITY STRUCTURE



3 UNIVERSITY STRUCTURE

3.1 THE TRUST

Sri Sathya Sai Institute of Higher Learning (Public Charitable Trust) was founded on 31 October 1981 by Bhagawan Sri Sathya Sai Baba, the Revered Founder Chancellor of the Sri Sathya Sai Institute of Higher Learning (Deemed to be University).

The Trust was founded to foster the composite culture of India and promote in the students and teachers, an awareness and understanding of the social needs of the country; with special awareness to the needs of the rural population. It is aimed to inculcate in students a world perspective; an international outlook imbibing human values along with a spiritual and scientific education.

Bhagawan Sri Sathya Sai Baba (the Revered Founder Chancellor, SSSIHL) is the Founder Trustee of Sri Sathya Sai Institute of Higher Learning (Public Charitable Trust). Its current members are:

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

During the current academic year, the meeting of the Board of Trustees took place on 22 December 2010. Amongst others, the major agenda items included the appointment of Dr. Naren Ramji as Registrar and Sri G Srinivas Srirangarajan as Controller of Examinations. Also discussed was the opening of a new campus in Muddenahalli, Karnataka.

3.2 THE CHANCELLOR

Bhagawan Sri Sathya Sai Baba is the Revered Founder Chancellor of the Sri Sathya Sai Institute of Higher Learning (Deemed to be University).



Chancellor Justice P N Bhagwati

The Chancellor of the University is appointed by the Trust. He typically holds office for a period of five years. When present, the Chancellor presides over the convocations of the University but is not the Chief Executive Officer.

Where power is conferred upon the Chancellor to nominate persons to authorities, he, to the extent necessary, nominates persons to represent the various interests for the furtherance of the objectives of the Institute.

Honourable Justice P N Bhagwati (born 21 December 1921) took charge as the Honourable Chancellor, Sri Sathya Sai Institute of Higher Learning on 6 May 2011.

He was the Chief Justice of the Supreme Court of India from 12 July 1985, until his retirement on 20 December 1986, and has been conferred with India's second highest civilian honour – the *Padma Vibhushan* in 2007.

Justice P N Bhagwati graduated in Mathematics (Hons.) in First class from the Elphinstone College, Bombay in 1941, and was appointed a Fellow of the same college. Whilst doing M.A. in Mathematics, he courted arrest during the Quit India Movement in 1942 and went underground for four months as a part of the Indian Independence Movement. Later, he took his Law Degree in First Class from the Government Law College, Bombay and practised at the Bombay High Court.

He has had a prolific career in the legal field. His important judicial appointments in India include:

- Judge of the Gujarat High Court from 21 July 1960;
- Chief Justice of Gujarat from 16 September 1967;
- Judge of the Supreme Court of India from 17 July 1973;
- Chief Justice of India from 12 July 1985 to 20 December 1986

As one of the most distinguished jurists of India since Independence, one of his great contributions is towards civil justice and the introduction of 'Absolute Liability' in India. Along with Justice V R Krishna Iyer, he introduced Judicial Activism in India and made the Supreme Court available to the common man. He is also widely regarded as the originator of India's legal aid programme, including setting up of legal aid camps in rural areas, working with NGOs, establishing legal aid clinics, etc.

He has been active in the education sector as well and was Chairman of the Gujarat Kendra (of the Bharatiya Vidya Bhavan) and was also connected with several educational institutions in Ahmedabad.

Justice Bhagwati has been associated with the Sri Sathya Sai Central Trust as a Member of its Council of Management since its inception in 1972, and was appointed as a Member of the Sri Sathya Sai Central Trust by the Founder Trustee, Bhagawan Sri Sathya Sai Baba, in April 2010.

He was a Member of Sri Sathya Sai Institute of Higher Learning (Public Charitable Trust) since its inception in 1981 until 6 May 2011, when he assumed office as the Chancellor of the Institute.

3.3 THE PRINCIPAL BODIES

Sri Sathya Sai Institute of Higher Learning (Deemed to be University) is an independent and self-governing institution. The following pages delve into the University's Principle Bodies and Committees, as well as its main officers – both Administrative and Academic, and include a brief overview of their roles.

The Principal Bodies

The administration and functioning of the University is carried out by the following two Principal Bodies:

- 1. The Board of Management
- 2. The Academic Council

The Board of Management

The Board of Management is the principal authority of the Institute. It is in charge of the general management and administration of the Institute, such as: framing of rules, creation of posts (teaching and non-teaching), appointment and suspension/dismissal of members, constitution of committees, review and evaluation of teaching and research, etc. It also has the power to constitute and lay down the functions and powers of the Selection Committees for the purpose of selecting the teaching and non-teaching staff, Building and Works Committee, Examination Committee, Research Committee and other such Committees as it may deem necessary. It normally meets four times every year.

Prof. J Shashidhara Prasad	Vice-Chancellor, SSSIHL	Chairman
Sri V Srinivasan	All India President, Sri Sathya Sai Seva Organisation	Nominee of SSSIHL (Public Charitable Trust)
Prof. S P Thyagarajan	Former Vice-Chancellor, University of Madras	Member
Dr. (Ms.) Dolly Sunny	Professor, Department of Economics, University of Bombay, Mumbai	UGC Nominee
Dr. (Miss) P Selvie Das	Former Member of Parliament, Rajyasabha	Member
Prof. C R Visveswara Rao	Vice-Chancellor, Vikram Simhapuri University, Nellore	Member
Prof. A Sudhir Bhaskar	Director, SSSIHL, Prasanthi Nilayam Campus	Member
Prof. Shiv R Pandit	Head, Department of Management Studies, SSSIHL	Member

The Board of Management for the Academic Year 2010/11 consisted of:

Prof. R Kumar Bhaskar	Department of Management Studies, SSSIHL	Member
Prof. S Krupanidhi	Head, Department of Biosciences, SSSIHL	Member
Dr. Naren Ramji	Registrar, SSSIHL	Member Secretary
Sri G Srinivas Srirangarajan	Controller, SSSIHL	Permanent Invitee

The Board of Management held a meeting on 19 September 2010. Several points were discussed. The key ones included the official appointments of the Registrar and the Controller of Examinations, as well as the Vice-Chancellor, Prof. Shashidhara Prasad.

The Academic Council

The Academic Council is the principal academic body of the Deemed to be University and 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, examinations and tests within the University and shall exercise such powers and perform such other duties and functions as may be prescribed or conferred upon it by the Rules of the Institute.

Prof. J Shashidhara Prasad	Vice-Chancellor, SSSIHL	Chairman
Prof. M P Vithal	Professor of Finance and Strategy , IIPM, Bangalore	Member
Prof. V Nagadevara	Indian Institute of Management Bangalore	Member
Prof. C Shareshchandra	Department of Hindi, Karnatak University Dharwad, Karnataka	Member
Prof. M Madhusudhana Rao	Department of English, Acharya Nagarjuna University, Guntur, AP	Member
Prof. K Krishna Naik	Department of History, Sri Krishnadevaraya University, Anantapur, AP	Member
Prof. B K Panigrahi	Head, Ion Beam & Computer Simulation Section, IGCAR; Professor, Homi Bhaba National Institute, Kalpakkam, TN	Member
Prof. P K Sai Prakash	Department of Chemistry, Osmania University, Hyderabad, AP	Member
Prof. I Dosagiri Rao	Head, Department of Politics & Public Administration, Andhra University Campus, Kakinada, AP	Member

The following are its members:

Dr. J Suman Babu	Reader in Telugu, P R Govt. College (Autonomous), Kakinada, AP	Member
Prof. P Baby Devaki	Professor (Retired), Dept. of Home Science, Sri Venkateswara University, Tirupati, AP	Member
Prof. S Kumaresan	Department of Mathematics & Statistics, University of Hyderabad, AP	Member
Prof. B L Pandit	Delhi School of Economics, Delhi University	Member
Prof. K Srinivas	School of Humanities, Department of Philosophy, Pondicherry University, Kalapet, Puducherry	Member
Prof. V Nagaraja	Department of Microbiology & Cell Biology, Indian Institute of Science, Bangalore	Member
Prof. P K Sahoo	Department of Education, University of Allahabad, UP	Member
Prof. Sripada Subramanyam	Director, AP Govt. Oriental Manuscripts Library & Research Institute, Hyderabad, AP	Member
Prof. A Sudhir Bhaskar	Dean, Faculty of Management and Commerce; Director (from 1/6/2011), Prasanthi Nilayam Campus, SSSIHL	Member
Prof. R Kumar Bhaskar	Department of Management Studies, SSSIHL	Member
Prof. S Krupanidhi	Dean, Faculty of Science; Head, Department of Biosciences, SSSIHL	Member
Prof. G Balachandran	Dean, Faculty of Economics & Humanities; Head, Department of Economics, SSSIHL	Member
Dr. S Siva Sankara Sai	Head, Department of Physics, SSSIHL	Member
Dr. R Gangadhara Sastry	Associate Professor of Political Science, SSSIHL	Member
Prof. V Chandrasekaran	Head, Department of Mathematics & Computer Science, SSSIHL	Member
Prof. Chelli Janardhana	Head, Department of Chemistry, SSSIHL	Member
Dr. (Miss) Rajeshwari C Patel	Head, Department of English Language & Literature, SSSIHL	Member
Dr. V Panduranga Rao	Department of English Language & Literature, SSSIHL	Member
Dr. (Miss) Sharada Subramaniam	Assistant Professor of Philosophy, SSSIHL, Anantapur	Member
Dr. (Miss) Kiron Bala Arora	Associate Professor of Hindi, SSSIHL, Anantapur	Member
Dr. (Miss) C Padvathamma	Head, Department of Telugu Language & Literature, SSSIHL	Member
Dr. (Mrs.) M Praphulla	Assistant Professor of Sanskrit, SSSIHL	Member



Dr. (Miss) Madhu Kapani	Head, Department of Education, SSSIHL	Member
Sri R Visveswar	Assistant Professor of History & Indian Culture, SSSIHL	Member
Dr. (Miss) N Niranjana	Head, Department of Commerce, SSSIHL	Member
Dr. (Mrs.) Rashmi Kapoor	Head, Department of Home Science, SSSIHL	Member
Dr. (Mrs.) Dwaraka Rani Rao	Director, Anantapur Campus, SSSIHL	Member
Prof. U S Rao	Director (up to 31/05/2011), Prasanthi Nilayam Campus, SSSIHL	Member
Sri Sanjay Sahni	Director, Brindavan Campus, SSSIHL	Member
Sri G S Srirangarajan	Controller of Examinations, SSSIHL	Member
Dr. Naren Ramji	Registrar, SSSIHL	Secretary

The Academic Council met on 28 October 2010 this year with the heads of all departments of the Institute, along with the administrators, attending. Redrafted regulations of Ph.D. programmes and newly introduced optimal grade (OG) required in Integral Items were amongst the agenda items. Following this, the Head of each Academic Department presented their proposals for the year.

3.4 IMPORTANT COMMITTEES

In addition to the Principal Bodies that govern the University, there are various committees set-up which ensure that the areas of academic and administrative audit, research and qualitative aspects, buildings and library maintenance, etc. are in accordance to the highest standard that SSSIHL has striven to consistently maintain.

The Finance Committee

The Finance Committee examines the annual accounts and financial estimates of the Institute, and submits them to the Board of Management for approval. It also examines and scrutinizes the proposed budget of the University and makes recommendations to the Board of Management. This includes fixing limits of the total recurring expenditure and the total nonrecurring expenditure of the year based on the income and resources of the Institute. In the academic year 2010/11, its members included:

Prof. J Shashidhara Prasad	Vice-Chancellor, SSSIHL	Chairman
Sri Amit Khare	Joint Secretary (IC), Government of India, Ministry of HRD, Department of Higher Education, New Delhi	Nominee of the UGC
Prof. R Kumar Bhaskar	Department of Management Studies, SSSIHL, Prasanthi Nilayam	Member
Dr. Naren Ramji	Registrar, SSSIHL	Member
Sri Ratilal Pala	Finance Officer, SSSIHL	Secretary

The Meeting of the Finance Committee took place on 10 February 2011. The committee reviewed the on-going projects and the budget estimates for the financial year 2010-2011.

Planning and Monitoring Board

The Planning and Monitoring Board is responsible for monitoring of the development programmes of the Institute, both academic and administrative. The Board also advises the Board of Management and the Academic Council on any matter which it considers necessary for the fulfilment of the objectives of the University. It also monitors the compliance of the academic norms prescribed by the University bodies, Central Government, UGC, etc.

It includes seven internal members and three external eminent experts, including one nominee from the UGC. The Vice-Chancellor is the Chairman and the Registrar its secretary.

The Boards of Studies

The Boards of Studies is responsible for framing and initiating, or revising Courses of studies and teaching methods at the University. It also makes suggestions regarding evaluation procedures and other academic matters concerning their subjects. Suggestions and recommendations of the department are deliberated upon in the Boards of Studies Meeting. The presence of experts facilitates objective and dispassionate debates of the issues at hand. The recommendations and suggestions of the Boards of Studies need to be approved by the Academic Council.

The Board of Studies met during the academic year and their proposals were presented to the Academic Council on 28 October 2010.

The following is the list of Boards of Studies, and their members for the Academic Year 2010/11:

Prof. S Kumaresan	Department of Mathematics, University of Hyderabad, AP	Member
Prof. V K Govindan	NIT, Calicut	Member
Prof C Jagan Mohan Rao	SSSIHL, Brindavan Campus	Invitee
Dr. (Mrs.) Rita Gupta	SSSIHL, Anantapur Campus	Invitee
Sri R Subramanian	SSSIHL, Brindavan Campus	Invitee
Dr. Pallav Kumar Baruah	SSSIHL, Prasanthi Nilayam Campus	Invitee
Dr. (Ms.) Y Laxmi Naidu	SSSIHL, Anantapur Campus	Invitee
Dr. R Raghunatha Sarma	SSSIHL, Prasanthi Nilayam Campus	Invitee
Prof. V Chandrasekaran	SSSIHL, Prasanthi Nilayam Campus	Convener

Department of Mathematics & Computer Science (DMACS)

Department of Physics

Prof. B K Panigrahi	IGCAR, Kalpakkam, TN	Member
Dr. (Mrs.) Dwaraka Rani Rao	SSSIHL, Anantapur Campus	Member
Dr. K S Umesh	SSSIHL, Brindavan Campus	Member
Dr. R Gowri Shankar	SSSIHL, Prasanthi Nilayam Campus	Invitee
Dr. (Mrs.) Tanu Rattan	Consultant, Nano structured material production	Invitee
Dr. S Siva Sankara Sai	SSSIHL, Prasanthi Nilayam Campus	Convener

Department of Chemistry

Prof. P K Sai Prakash	Osmania University, Hyderabad, AP	Member
Prof. S Srihari	Kakathiya University, Warangal, AP	Member
Dr. K S Narahari	SSSIHL, Brindavan Campus	Member
Dr. G Nageswara Rao	SSSIHL, Prasanthi Nilayam Campus	Member
Prof. Chelli Janardhana	SSSIHL, Prasanthi Nilayam Campus	Convener

Department of Biosciences

Prof. V Nagaraja	Indian Institute of Science, Bangalore	Member
Dr. (Mrs.) Vijayalakshmi Venkatesan	National Institute of Nutrition, Hyderabad	Member
Dr. R Basavaraju	SSSIHL, Prasanthi Nilayam Campus	Member
Miss Isha Sai	SSSIHL, Anantapur Campus	Member
Prof. D N Rao	IISc., Bangalore	Invitee
Prof. S Krupandhi	SSSIHL, Prasanthi Nilayam Campus	Convener

Department of Home Science

Prof. (Mrs.) Baby Devaki	Department of Home Science, Tirupati	Member
Dr. (Mrs.) B Andallu	SSSIHL, Anantapur Campus	Invitee
Dr. (Miss) N Srividya	SSSIHL, Anantapur Campus	Invitee
Miss M Srijaya	SSSIHL, Anantapur Campus	Invitee
Mrs. A Sumana	SSSIHL, Anantapur Campus	Invitee
Dr. (Mrs.) Rashmi Kapoor	SSSIHL, Anantapur Campus	Convener

Department of Management Studies

Dr. Ramaier Sriram	SSSIHL, Prasanthi Nilayam Campus	Invitee
Dr. Subhash Subramanian	SSSIHL, Prasanthi Nilayam Campus	Invitee
Sri V N Prakash Sharma	SSSIHL, Prasanthi Nilayam Campus	Invitee
Prof. A Sudhir Bhaskar	SSSIHL, Prasanthi Nilayam Campus	Convener

Department of Commerce

Prof. M P Vithal	IIPM, Bangalore	Member
Sri Sanjay Sahni	SSSIHL, Brindavan Campus	Member
Sri Ruchir Desai	SSSIHL, Brindavan Campus	Member
Dr. (Miss) N Niranjana	SSSIHL, Anantapur Campus	Member
Dr. (Miss) Ch Radhakumari	SSSIHL, Anantapur Campus	Invitee
Dr. (Miss) T R Rajeshwari	SSSIHL, Anantapur Campus	Invitee
Sri Rajeev Rajan	SSSIHL, Brindavan Campus	Invitee
Miss U Suma	SSSIHL, Anantapur Campus	Invitee
Dr. N Shiva Kumar	SSSIHL, Brindavan Campus	Invitee
Prof. R Kumar Bhaskar	SSSIHL, Prasanthi Nilayam Campus	Convener

Department of Economics

Prof. B L Pandit	Department of Economics, Delhi School of Economics, Delhi University	Member
Prof. K L N Reddy	SSSIHL, Prasanthi Nilayam Campus	Member
Prof. Vishwanath Pandit	SSSIHL, Prasanthi Nilayam Campus	Member
Prof. G Balachandran	SSSIHL, Prasanthi Nilayam Campus	Member
Dr. R Prabhakara Rao	SSSIHL, Prasanthi Nilayam Campus	Member
Sri Ragavendra Raju	SSSIHL, Prasanthi Nilayam Campus	Invitee
Sri Harish Mani	SSSIHL, Prasanthi Nilayam Campus	Invitee
Sri T C S S R Sharma	SSSIHL, Prasanthi Nilayam Campus	Invitee
Prof. K Krishnamurty	Hon. Prof. A S C I, Hyderabad, AP	Invitee
Prof. N R Rajagopala Rao	SSSIHL, Prasanthi Nilayam Campus	Convener

Department of Education

Prof. P K Sahoo	Department of Education, University of Allahabad, UP	Member
Dr. (Mrs.) Rudramamba	SSSIHL, Anantapur Campus	Member
Dr. (Mrs.) P Lavanya	SSSIHL, Anantapur Campus	Invitee
Dr. (Miss) Madhu Kapani	SSSIHL, Anantapur Campus	Convener

Department of English Language & Literature

Prof. M Madhusudan Rao	Nagarjuna University, Guntur, AP	Member
Dr. (Miss) S Kanaka Durga	SSSIHL, Anantapur Campus	Member
Dr. V Panduranga Rao	SSSIHL, Prasanthi Nilayam Campus	Member
Dr. (Miss) Rajeshwari C Patel	SSSIHL, Anantapur Campus	Convener

Department of Telugu Language & Literature

Dr. Suman Babu	P R Government College, Kakinada, AP	Member
Prof. M Veerabhadraiah	SSSIHL, Prasanthi Nilayam Campus	Member
Dr. (Mrs.) M Praphulla	SSSIHL, Anantapur Campus	Member
Dr. (Ms.) C Padmavathamma	SSSIHL, Anantapur Campus	Convener

Sub-Department of Political Science

Prof. I Dosagiri Rao	Head, Department of Politics & Public Administration, Andhra University Campus, Kakinada, AP	Member
Miss G Rajya Lakshmi	SSSIHL, Anantapur Campus	Member
Dr. R Gangadhara Sastry	SSSIHL, Prasanthi Nilayam Campus	Convener

Sub-Department of Philosophy

Prof. K Srinivas	Pondicherry University, Puducherry	Member
Dr. (Miss) M. Venkatalakshmi	SSSIHL, Anantapur Campus	Invitee
Dr. (Ms.) Sharada Subramaniam	SSSIHL, Anantapur Campus	Convener

Sub-Department of History & Indian Culture

Sri R Visveswar Raju	SSSIHL, Prasanthi Nilayam	Member
Miss M Vijayalakshmi	SSSIHL, Anantapur Campus	Member
Prof. K Krishna Naik	Sri Krishna Devaraya University, Anantapur, AP	Convener

Subject of Sanskrit

Dr. N Venkatesha Rao	SSSIHL, Brindavan Campus	Member
Dr. (Mrs.) M Praphulla	SSSIHL, Anantapur Campus	Member
Dr. Sreepada Subramanyam	Registrar, Potti Sreeramulu Telugu University, Hyderabad, AP	Convener

Subject of Hindi

Prof. C Shareshchandra	Department of Hindi, Karnatak University, Dharwad, Karnataka	Member
Dr. Piyush Kumar Srivatsava	SSSIHL, Prasanthi Nilayam Campus	Member
Dr. (Miss) Kiran Bala Arora	SSSIHL, Anantapur Campus	Convener

Internal Quality Assurance Cell (IQAC)

The basic purpose of the IQAC is two-fold: a) to ensure continuous improvement in the entire operations of the Institute, and b) to assure stakeholders of the Institute – students, parents, teachers, staff, prospective employers, funding agencies and society in general – of the accountability of the University for its own quality and probity. The IQAC develops and applies quality benchmarks/parameters in various activities of the University, and acts as a nodal agency of the University for quality-related activities.

The IQAC members during the Academic Year 2010/11 were:

Prof. J Shashidhara Prasad	Vice-Chancellor, SSSIHL	Chairman
Dr. Naren Ramji	Registrar, SSSIHL	Member
Sri G S Srirangarajan	Controller of Examinations, SSSIHL	Member
Sri R Pala	Finance Officer, SSSIHL	Member
Sri Sanjay Sahni	Director, Brindavan Campus, SSSIHL	Member
Prof. S Krupanidhi	Dean, Faculty of Science; Head, Department of Biosciences, SSSIHL	Member
Prof. A Sudhir Bhaskar	Dean, Faculty of Management and Commerce; Director (from 1 Jun 2011), Prasanthi Nilayam Campus, SSSIHL	Member
Prof. Chelli Janardhana	Head, Department of Chemistry, SSSIHL	Member
Prof. G Balachandran	Dean, Faculty of Economics & Humanities; Head, Department of Economics, SSSIHL	Member
Dr. S Siva Sankara Sai	Head, Department of Physics, SSSIHL	Member
Dr. (Mrs.) Dwaraka Rani Rao	Director, Anantapur Campus, SSSIHL	Member

Dr. K S Narahari	Department of Chemistry, Brindavan Campus, SSSIHL	Member
Dr. (Mrs.) Rashmi Kapoor	Head, Department of Home Science, SSSIHL	Member
Prof. U S Rao	Director (up to 31 May 2011), Prasanthi Nilayam Campus, SSSIHL	Member
Sri Roop Arora	Senior Advocate, High Court of Maharashtra	Member
Prof. R Kumar Bhaskar	Department of Management Studies, Prasanthi Nilayam Campus, SSSIHL	Coordinator

Research Advisory Committee (RAC)

The RAC reviews the progress of ongoing research projects of various departments of the University and offers suggestions and guidance wherever necessary.

It is constituted as per the requirements of the Scientific and Industrial Research Organisation – Government of India, and has the Vice-Chancellor as its Chairman. The committee members include eminent scientists and academicians, as well as internal faculty from the Institute. The full list of members for the Academic Year 2010/11 is as below.

Internal Members

Prof. J Shashidhara Prasad	Vice-Chancellor, SSSIHL	Chairman
Dr. Naren Ramji	Registrar, SSSIHL	Member
Sri. G S Srirangarajan	Controller of Examinations, SSSIHL	Member
Prof. S Krupanidhi	Dean of Science; Head, Department of Biosciences, SSSIHL	Member
Prof. V Chandrasekaran	Head, Department of Mathematics and Computer Science, SSSIHL	Member
Prof. Chelli Janardhana	Head, Department of Chemistry, SSSIHL	Member
Dr. S Siva Sankara Sai	Head, Department of Physics, SSSIHL	Member
Dr. (Mrs.) Rashmi Kapoor	Head, Department of Home Science, SSSIHL	Member

External Members

Dr. T G Ramesh	Expert Scientist, Material Science Division, National Aerospace Laboratories, Bangalore	Member
Dr. (Mrs.) V Vijayalakshmi	Deputy Director, Stem Cell Research, National Institute of Nutrition, Hyderabad	Member

Prof. P K Sai Prakash	Emeritus Scientist, Department of Chemistry, Osmania University, Hyderabad	Member
Prof. M P Vithal	Department of Finance and Strategy, Indian Institute of Plantation Management, Bangalore	Member
Prof. V Nagaraja	Indian Institute of Science, Bangalore	Member
Prof. S Kumaresan	Department of Mathematics and Statistics, University of Hyderabad	Member

The Research Advisory Committee meeting was held on 28 October 2010. During the Committee's deliberations, the research profile and other related matters of interest, including the proposed Advanced Research Centre were discussed, following which, the research achievements of each department were presented.

Departmental Committee

Every academic department of the University has a Departmental Committee where all the teaching faculty (along with the Head of the Department) set goals, evaluate faculty and students' performance, review coverage of syllabi, plan the utilisation of resources and departmental expenditure, and explore new opportunities. A large number of ideas regarding teaching methodology, syllabi, research, identification of teaching and learning materials and similar academic matters are presented and discussed. The Departmental Committee meets once every month.

The list of its members is akin to the list of faculty members of each academic department. Please refer to the Academic Departments (**Section 4.3**) for the full list.

Examinations Committee

The Examinations Committee looks into the formulation of procedures and suitably advices on matters relating to internal Evaluation, periodic Tests, monthly Tests and semester Examinations and Practicals. The committee also scrutinises the results of every semester-end examination.

It has been constituted with the Vice-Chancellor as the Chairperson, the Registrar as the Secretary and three senior Professors as members.

Institutional Ethics Committee (IEC)

As per the guidelines of the Indian Council of Medical Research, an Institution pursuing biomedical research involving human participants needs to have an Institutional Ethics Committee.

The IEC includes one or two professionals from basic medical science area, one or two clinicians from various Institutes, one legal expert or retired judge, one social scientist, one philosopher/ethicist/theologian, one lay person from the community, head of the concerned department and other special invitees. The current Chairperson of this Committee is Dr. V Mohan, Chairman, Madras Diabetic Research Foundation, Chennai. The IEC reviews and approves all research involving animal/human participants. The Committee is charged with protecting the interests of the research participants.

The Meeting of the Institutional Ethics Committee, held on 23 July 2010, discussed primarily the use of human samples in dissertations from various departments. The deliberations then set in motion a process of approval (or non-approval) of the same in lieu of the IEC's policies.

Institutional Bio-safety Committee (IBSC)

Rules for the manufacture, use, import/export and storage of hazardous microorganisms/genetically engineered organisms (GMOs) or cells, require the constitution of an Institutional Bio-safety Committee (IBSC) by every organization engaged in research and production activities related to GMOs as notified by the Ministry of Environment & Forests, Government of India under the Environmental Protection Act (1986).

The IBSC includes an internal member of the University, a nominee of the head of the Institution, a nominee of the Department of Biotechnology, Govt. of India, a medical officer and two external experts as members. The head of the Institution or his/her nominee is the Chairperson of the Committee.

The IBSC met on 18 March 2011. During the session, research scholars presented their work involving genetically modified organisms, whose transmission pathways are unidentified. The Committee then sanctioned approvals on each proposal, as per its rules.

Library Management Committee (LMC)

The LMC reviews and approves the supplies for the purchase of books and subscription of journals / e-journals. It also monitors the functioning of the libraries of the University.

The LMC consists of all Heads of Departments (HODs), Controller of Examinations, and Directors of Campuses as members; the Registrar as the Member-Secretary, and the Vice-Chancellor as the Chairperson. The Librarian is the Coordinator of this Committee.

The LMC met on 4 January 2011. The purchase of books, renewal of journals and a proposal to have a departmental library were the key agenda items.

3.5 KEY ADMINISTRATIVE OFFICERS

The administration of the University is undertaken by the following key officers:



Vice-Chancellor Prof. J Shashidhara Prasad

The Vice-Chancellor is the principal Academic Head and principal Executive Officer of the Institute, and he exercises general control over its affairs. He is a full-time Officer. The Vice-Chancellor, by virtue of his Office, is a member and Chairman of the Board of Management, the Academic Council, the Faculties and Finance Committee, and will preside at the meetings thereof. He will exercise all such powers as may be delegated to him under the Rules of the Institute.

Prof. J Shashidhara Prasad (born 18 Nov 1947) assumed charge as the ninth Vice-Chancellor of SSSIHL on 19 July 2010.

Prof. J Shashidhara Prasad, Ph.D., has specialized in Liquid Crystalls, Crystallography, and is also a renowned Scientist. He was formerly Vice-Chancellor of University of Mysore (2003-08); recipient of Arybhata award for scientific achievement; Post-matric National Merit scholar, Govt. of India; Mysore University Golden Jubilee Science awardee; Fellow of the Institute of Physics, UK; Commonwealth Academic staff fellow at Oxford University, UK (1976-77); UGC Career awardee in Science (1980-83); and also held high positions in the Faculty of Science & Technology and in the Department of Studies in Physics at the University of Mysore (1989-2002).

He has participated in several national and international conferences and published over 200 articles in International Journals; guided over 20 Ph.D. research scholars; and is a member of various Committees constituted by the UGC.

He was a member of: Indian Association of Physics Teachers, Indian Physics Association, American Institute of Physics, Optical Society of America (USA), Australian Institute of Physics, American Physical Society, International Liquid Crystal Society, Indian Liquid Crystal Society, Indian Crystallographic Association, Material Research Society of India; and a fellow of the Institute of Physics (London).

He remains active in the classroom through guest lectures in a variety of introductory and international conferences and initiatives at SSSIHL.

Registrar Dr. Naren Ramji

A full-time Officer of the Institute, the Registrar is the custodian of the records and of the common seal and funds, and other properties of the Institute. He will function as the Secretary of the Board of Management, Academic Council, Finance Committee and the Faculties. He will represent the University in suits or legal proceedings against it, sign powers of attorney, etc. and conduct all official correspondence of the University and its authorities. He will issue notices convening meeting of the authorities of the University and of any Committees appointed by such authorities. He renders such assistance to the Vice-Chancellor in the discharge of his duties as may be desired by him.

Dr. Naren Ramji was appointed as the fourth Registrar of the University in June 2009.

He completed his Bachelors in Physics from the R K M Vivekanada College, University of Madras and joined DCM Data Products New Delhi for a brief period. In 1986, he enrolled as a student of the first batch of the MBA programme at SSSIHL.

He joined the Department of Management Studies (then Faculty of Business Management) as a faculty member in 1988. His areas of expertise are General Management, Marketing, Managing of Brands, Advertising, Marketing of Services, New Product Development and Managing Customer Relationship. He completed his Ph.D. in the field of Services Management with special reference to Service Quality in 2002.

Controller of Examinations

Sri G S Srirangarajan

As a full-time Officer, the Controller of Examinations is in-charge of procedures and supervision of all internal evaluation and examinations of the Institute. This includes ensuring that all the specific directions of the Board of Management, Academic Council and Vice-Chancellor in respect of examination and evaluation are complied with. He is also a permanent invitee to the Board of Management.

Sri G S Srirangarajan took over as the second Controller of Examinations of the University in June 2009.

After completing his Bachelors in Industrial & Production Engineering from M S Ramaiah College, Bangalore University, he joined SSSIHL to pursue his MBA in 1990.

He then joined as a faculty member in the Department of Management Studies (then Faculty of Business Management) in 1992. His areas of expertise include Information Technology, Statistics, Operations Research, Geographic Information Systems and Total Quality Management. He has also been deeply involved with the Awareness Programme of the University. In 2003, he was appointed as the Placement Officer, Department of Management Studies (then School of Business Management, Accounting & Finance). He is pursuing his Doctoral Research in the field of Spirit at Work.

3.6 FACULTIES & DEPARTMENTS

The academic structure of SSSIHL comprises of three major faculties, eleven departments (including sub-departments and subject areas) and their respective faculty members.

Section 4.3 on Academic Departments elaborates on each department, its faculty members and academic activities.

Below is the list of Deans of Faculties and Heads of Departments:

Faculty of Science

Dean: Prof. S Krupanidhi

2Department of Physics Dr. S Siva Sankara Sai3Department of Chemistry Prof. Chelli Janardhana	1	Department of Mathematics & Computer Science	Prof. V Chandrasekaran
3 Department of Chemistry Prof. Chelli Janardhana	2	Department of Physics	Dr. S Siva Sankara Sai
	3	Department of Chemistry	Prof. Chelli Janardhana
4 Department of Biosciences Prof. S Krupanidhi	4	Department of Biosciences	Prof. S Krupanidhi
5 Department of Home Science Dr. (Mrs.) Rashmi Kapoor	5	Department of Home Science	Dr. (Mrs.) Rashmi Kapoor

Faculty of Management & Commerce

Dean: Prof. A Sudhir Bhaskar

6	Department of Management Studies	Prof. Shiv R Pandit
7	Department of Commerce	Dr. (Miss) N Niranjana

Faculty of Economics & Humanities

Dean: Prof. G Balachandran

8	Department of Economics	Prof. G Balachandran
9	Department of Education	Dr. (Miss) Madhu Kapani
10	Department of English Language & Literature	Dr. (Miss) Rajeshwari C Patel
11	Department of Telugu Language & Literature	Dr. C Padmavathamma

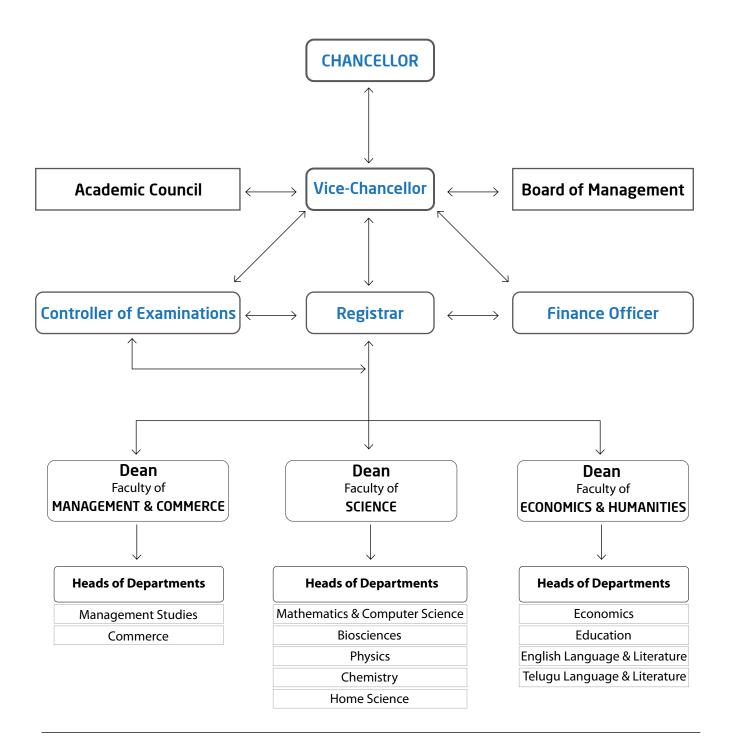
Under the Faculty of Economics & Humanities, there are three **sub-departments**. These are:

- Political Science
- History & Indian culture
- Philosophy

Additionally, the following subjects are taught as **additional languages** in various Undergraduate programmes of study:

- Hindi
- Sanskrit

3.7 ORGANIZATIONAL CHART



The Sri Sathya Sai Institute of Higher Learning (Deemed to be University) has been 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.



3.8 THE CAMPUSES

"This Campus has a unique serenity and sublimity of atmosphere. There is a refinement and a soothing power about this campus. Every teacher and student, every administrator and worker here seems to know intuitively that this Institute of Higher Learning is also a centre of higher behaviour and a seat of higher understanding. Welfare of the poor and the downtrodden through several humanitarian projects is the running theme of the University which shapes the outlook of the students and forms a part of their mental make up; they are trained to think in terms of giving more to Society than to take from it."

Sri Bhairon Singh Shekhawat, Vice-President of India

Address at the 22nd Convocation, SSSIHL

SSSIHL has very matured and complex facilities for students, faculty members, administrators and other staff, all of which present a holistic environment, conducive for a high quality education and all-around student development. These standards are reflected in all its campuses.

SSSIHL Campuses

Sri Sathya Sai Institute of Higher Learning has **three** campuses spread over the two states of Andhra Pradesh and Karnataka, in South India. They are all located in areas surrounded by mountains, greenery and nature, which helps create an ambience for integral education that the University curricula imparts.

Prasanthi Nilayam

The **PRASANTHI NILAYAM Campus for men** is the University headquarters, and is located in Puttaparthi, in the district of Anantapur, Andhra Pradesh – 162km north of the city of Bangalore. This campus offers Undergraduate, Professional and Postgraduate Programmes with research facilities for Doctoral candidates.

Campus Director	Prof. A Sudhir Bhaskar
Address	Sri Sathya Sai Institute of Higher Learning Prasanthi Nilayam – 515 134 Anantapur District, Andhra Pradesh
Telephone	+91 8555 287235 (Main) +91 8555 287234 (Hostel)
Email	directorpsn@sssihl.edu.in
Web	sssihl.edu.in

Anantapur

The **ANANTAPUR Campus for women** is in the town of Anantapur, Andhra Pradesh, about 80km north of Puttaparthi. This campus also offers Undergraduate, Professional and Postgraduate Programmes with research facilities for doctoral candidates.

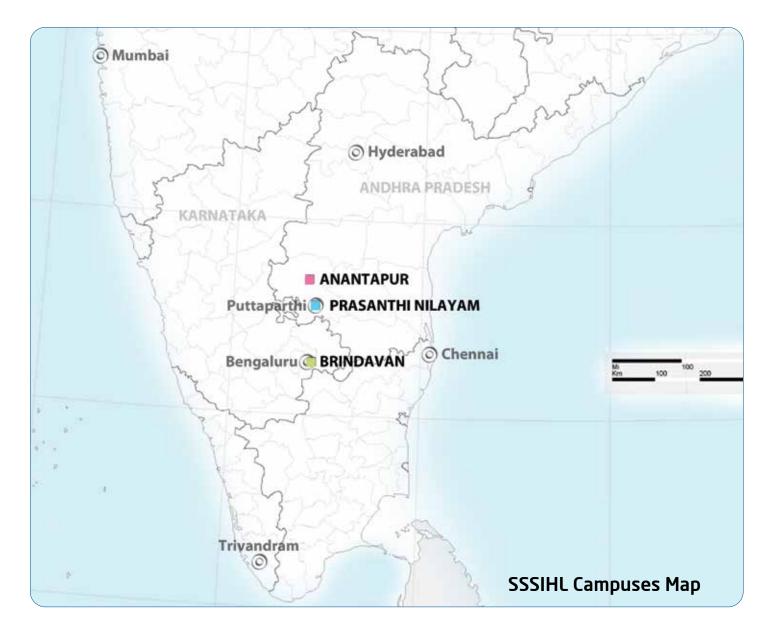
Campus Director	Dr. (Mrs.) Dwaraka Rani Rao
Address	Sri Sathya Sai Institute of Higher Learning Anantapur – 515 001 Anantapur District, Andhra Pradesh
Telephone	+91 8554 272567 (Main) +91 8554 273122 (Hostel)
Email	directoratp@sssihl.edu.in
Web	sssihl.edu.in

Brindavan

The **BRINDAVAN Campus for men** is located in Kadugodi, Whitefield, an eastern suburb of the city of Bangalore. It offers Undergraduate Programmes.

Campus Director	Sri Sanjay Sahni
Address	Sri Sathya Sai Institute of Higher Learning Kadugodi PO – 560 067 Bangalore, Karnataka
Telephone	+91 80 2845 2329 (Main) +91 80 2845 2233 (Hostel)
Email	directorbrn@sssihl.edu.in
Web	sssihl.edu.in



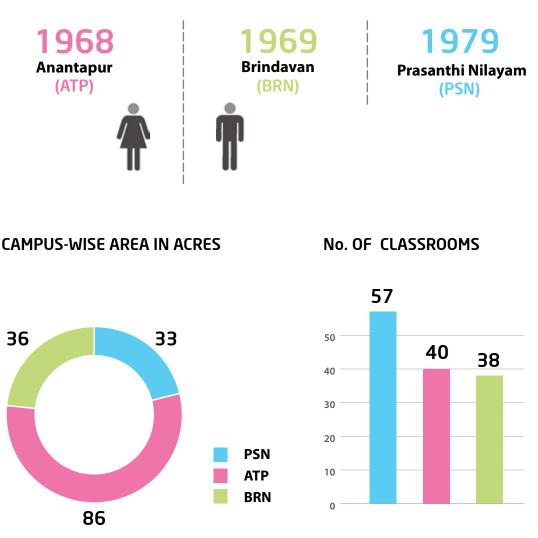


...It may also be mentioned that the infrastructure of the Institute in terms of buildings, laboratories, hostels and other facilities required by the students and teachers is very impressive. The management and maintenance of the infrastructure is of the highest standard found anywhere in the country. This is a reflection of the discipline and values which are an integral part of all activities at the campuses...

> **Excerpts from the Committee Report, Ministry of HRD, Govt. of India** Jan 2000

Facilities at the Campuses

The Institute, though having a rural setup in two of its campuses, houses advanced infrastructural facilities that contribute to both the academic and co-curricular domain of the students' personal development process.



YEAR ESTABLISHED





Buildings and Grounds

All the campuses of the University have spacious, beautiful and artistically designed buildings which stand out for their simplicity and elegance. The classrooms are designed to handle optimal sizes of 30 students for a course to facilitate effective teacher-student interaction. Supplementing these are the seminar halls and conference rooms with multi-media facilities.

Auditoriums & Multimedia Facilities

Each campus of SSSIHL has an auditorium, each of which can accomodate about 900 people. The auditoriums are used for daily prayers, Moral Class sessions on Thursdays, speeches and cultural events.

The Air-conditioned Multimedia Centers, with a seating capacity of over 100 participants at each campus, typically host national and international seminars, conferences and workshops. They are equipped with the latest Audio / Video conferencing facilities which enable active and real-time collaborations among staff and students of the three campuses of the University.

Labs and Computer Centres

The University has well-equipped laboratories in the fields of Physics, Chemistry, Biosciences, Nanosciences, Artificial Intelligence and Information Technology; and a Green House for off-season cultivation of floricultural and medicinal plants. It also has a leased line which provides high-speed broadband internet connectivity to students and staff for academic pursuits. It is one of the few Universities to have English Language Labs in all its campuses. The Computer Centres at the campuses have been revamped and provide around 306 computers for use by the students. As a result, the student to computer ratio of the University now stands at 4:1.

Each academic department has its own set of facilities. These are detailed in their respective overviews, in the Academics section (4.3).



Central Facilities Upgradations

During the academic year, a host of infrastructural upgradations took place. Given below is a list of common facilities that were upgraded.

Computers

- 1 x HP DL 380 Rack Server 16GB and 1 x HP DL 330 Tower Server 10GB
- 1 x Emerson Online UPS 20kw and 1 x Emerson Online UPS 10kw
- ^o 87 x HP/DC/6000 Pro desktop Computers

Multimedia

- ^o 36 x Optoma 3500 ANSI Lumens DLP Projectors (with insta-lock Projection screens)
- 3 x Optoma 5000 ANSI Lumens DLP Projectors (with motorised Projection Screens)

Language Labs

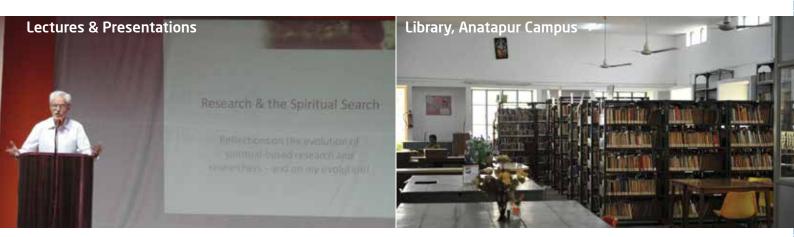
- 50 + 2 Capacity Robotel Smart Class Language Lab System
- Tense Buster English Language Learning Software

Fire Extinguishers

Fire Extinguishers at all campuses and the University Administrative Office.

- □ 103 x ABC 5Kg. F.E.
- \square 16 x ABC 2Kg. F.E. and 16 x CO₂ 2Kg. F.E.
- ^D 17 x CO₂ 4.5Kg. F.E.

In addition to this, individual academic departments also had facilities upgraded during the year. For a list of these, kindly refer to the Academics Section (4.3).



Library Facilities

Each of the three campuses of the Institute has got a well-established library. The Central Library located at the Prasanthi Nilayam Campus, with an initial collection 15,000 volumes, has now swelled to 150,000 across all three campuses. The libraries house latest books and journals in diverse academic fields and spacious facilities for reading.

The Libraries receive about 280 periodicals, both National and International, that include a good collection of the back volumes of Journals. Audio, Video and CD-ROM collections, as well as Theses, Dissertations, Quick Reference Books, and other materials (including maps) are available to students.

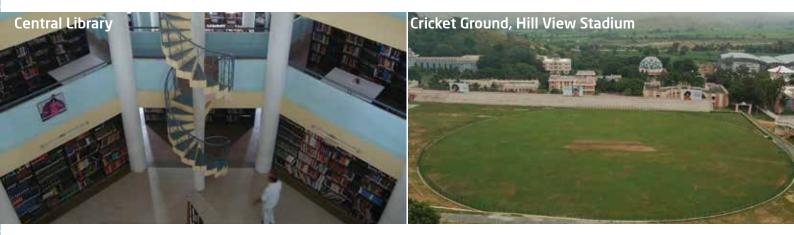
Other services offered in the University libraries include Referencing, Photocopying, Inter-library Loans, etc.



LIBRARY - No. OF VOLUMES

VOLUMES PER STUDENT





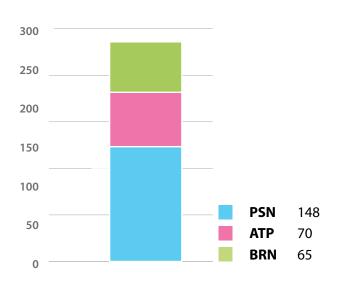
Sri Sathya Sai International Centre for Sports

A state of the art Olympic-standard multi-discipline indoor stadium was inaugurated on 22 November 2006, by the President of India, Honarable Dr. A P J Abdul Kalam.

With facilities for Basketball, Volleyball, Tennis, Squash, Table-tennis, Badminton, Gymnastics and Yoga/Aerobics, this stadium - measuring 100 metres by 60 metres on a 4.8 acre site, is amongst the largest open-frame space domes in the country. It has a spectator capacity of 4,000.

Sri Sathya Sai Hill View Stadium

A multipurpose outdoor stadium, the Sri Sathya Sai Hill View Stadium was constructed for the purpose of conducting the Annual Sports and Cultural meet of all Sri Sathya Sai Educational institutions (an annual event on 11 January). The stadium overlooks an array of imposing structures and statues symbolizing different faiths. On occasions, the stadium hosts International sports and game events. It boasts a viewer's gallery that can accommodate over 25,000 people.



PRINT JOURNAL SUBSCRIPTIONS

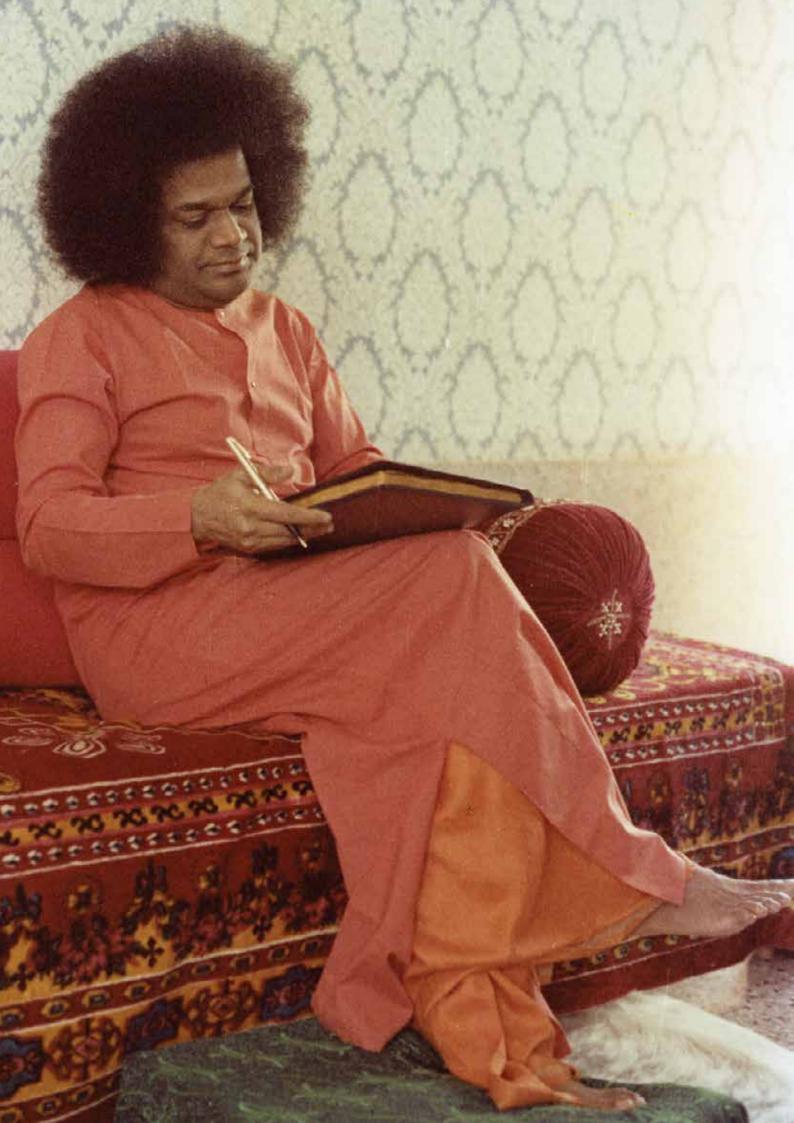
E-JOURNAL SUBSCRIPTIONS

6055





ACADEMICS



4 ACADEMICS

4.1 ADMISSIONS

Admissions Policy

Sri Sathya Sai Institute of Higher Learning provides **free education** (with no fees whatsoever being charged to students for tuition, examinations, labs etc.) to all students. It has a merit-based and open admissions policy for all, irrespective of income, religion or region.

The University adopts the Government of India Policy for students from the Scheduled Castes (SCs), and the Scheduled Tribes (STs).

The University's main campus at Prasanthi Nilayam is established in a rural setting in Puttaparthi, in the District of Anantapur. Students from rural areas who are weak in English language communication are given special coaching by the teachers concerned. These students make steady progress and perform consistently well from the second semester onwards.

Courses Overview

The University, from its inception, has provided for integrated five years programmes combining undergraduate and postgraduate studies for a systematic coverage and graduated learning process. In this manner, students can receive their Masters degree at the end of their studies at the Institute.

Such an integrated programme avoids duplication and redundancy and renders the learning process smooth and stimulating. Teachers who normally teach Masters Level courses could teach the first degree courses, which not only enables students to get a perspective that they would not have achieved otherwise, but also helps the teachers to orient their teaching to inspire young aspiring students to scale greater heights than what conventional undergraduate teaching would have done.

In terms of application for admissions, men students are admitted to either the Prasanthi Nilayam Campus or the Brindavan Campus, whilst women students are admitted to the Anantapur Campus.



Courses Offered

SSSSIHL offers the following programmes across its three campuses: Undergraduate, Postgraduate, Professional and Research.

At the Brindavan Campus, only Undergraduate programs are offered.

The Prasanthi Nilayam and Anantapur campuses offer Undergraduate, Postgraduate (M.A. and M.Sc.), Professional (MBA, M.Tech. and B.Ed.) as well as Research Programmes (M.Phil. and Ph.D.).

The following is a full list of **degree Programmes** offered by SSSIHL:

UNDERGRADUATE Programmes (Duration: 3 years)			
B.A.3 subject combinations from the following: Economics, Optional English, Optional Telugu, Histo & Indian Culture, Political Science or Philosophy.			
B.A. (Hons.) in Economics			
B.Com. (Hons.)			
B.Sc. (Hons.) in Economics			
B.Sc. (Hons.) in Mathematics			
B.Sc. (Hons.) in Biosciences			
B.Sc. (Hons.) in Physics			
B.Sc. (Hons.) in Chemistry			
B.Sc. in Home Science			

POSTGRADUATE Programmes (Duration: 2 years)		
M.Sc. Mathematics M.Sc. Mathematics Gomputer Science		
M.Sc. Biosciences	Specialization in: (a) Biotechnology, or (b) Mycology and Plant Pathology	
M.Sc. Physics	Specialization in: (a) Photonics, (b) Nuclear Physics, or (c) Electronics	
M.Sc. Nanoscience & Nanotechnology		
M.Sc. Chemistry		
M.Sc. Food Science and Nutrition		
M.Sc. Food Technology		
M.A. Economics		
M.A. English Language & Literature		
M.A. Telugu Language & Literature		

PROFESSIONAL Programmes (Duration: 2 years)
MBA
MBA (Finance)
M.Tech. Computer Science
M.Tech. Applied Optics
B.Ed. (1 Year)

RESEARCH Programmes (Duration: M.Phil.: 1½ years and Ph.D.: 2-4 years)			
M.Phil.	Subject areas: Mathematics & Computer Science, Physics, Chemistry,		
Ph.D.	Biosciences, Nanoscience & Nanotechnology, Home Science, Management, Finance, Economics, English and Telugu		

COULSES



SSSIHL Academic Calendar 2010/11

		SUMMER SEMESTER
June		
1	Tue	SUMMER SEMESTER BEGINS
July		
1 st week		Continuous Internal Evaluation (CIE) Block
25	Sun	Gurupoornima*
August		
1 st week		Continuous Internal Evaluation (CIE) Block
15	Sun	Independence Day*
25-27	Wed-Fri	Supplementary End-semester Exams
September		
1 st week		Continuous Internal Evaluation (CIE) Block
2	Thu	Sri Krishna Janmashtami*
10	Fri	Ramzan*
11	Sat	Vinayaka Chaturthi*
25-5 (Oct)	Sat-Tue	End-semester Exams
October		
2	Sat	Gandhi Jayanthi*
6-17	Wed-Sun	Dasara Celebrations Grama Seva Activities
15	Fri	5
16	Sat	Maharnavami*
17		Vijaya Dasami*
17		SUMMER SEMESTER ENDS
	18-31 October	WINTER VACATION

WINTER SEMESTER			
November			
1	Mon	WINTER SEMESTER BEGINS	
5	Fri	Deepavali*	
6-7	Sat-Sun	Akhanda Bhajans*	
18-24	Thu-Wed	Social Work and Bhagawan Baba's 85 th Birthday Celebrations	
22	Mon	SSSIHL 29 th Annual Convocation	
23	Tue	Bhagawan Baba's 85 th Birthday*	
December			
2 nd week		Continuous Internal Evaluation (CIE) Block	
17	Fri	Moharam*	
25	Sat	Christmas*	
January	January		
6-15	Thu-Sat	Annual Sports & Cultural Meet	
14	Fri	Bhogi*	
15	Sat	Makarasankranti*	
26	Wed	Republic Day*	
31-7 (Feb)	Mon-Mon	Continuous Internal Evaluation (CIE) Block	
February			
24-26	Thu-Sat	Supplementary End-semester Exams	
March			
3	Thu	Mahashivaratri*	
1 st week		Continuous Internal Evaluation (CIE) Block	
17-31	Thu-Thu	End-semester Exams	
31	Thu	WINTER SEMESTER ENDS	
1	April - 31 May	SUMMER VACATION	

April		
4	Mon	Ugadi*
12	Tue	Sriramanavami*
22	Fri	Good Friday*
	1 June 2011	Academic Year 2011/12 commences

* Holiday

4.2 ACADEMIC EXCELLENCE AT SSSIHL

In January 2011, The National Assessment and Accreditation Council (NAAC) – an autonomous body established by the University Grants Commission (UGC) that monitors and evaluates the quality of higher education in India – granted Sri Sathya Sai Institute of Higher Learning (Deemed to be University) re-accreditation with 'A' Grade and a Cumulative Grade Point Average (CGPA) of 3.625 (on a scale of 4.00). This means that SSSIHL continues to be in the top bracket of Indian Universities.

Key Contributing Factors

There are **several factors** that have contributed to the consistent high standard of academic excellence achieved by the Institute.

Infrastructure & Facilities

From computer-aided instruction to team teaching and video conferencing, The University provides students with all amenities to excel at their studies. With a 129 to 1 volumes-per-student ratio, the University libraries stock reference and other study materials to aid them in every way. Every academic department has laboratories and related facilities that compliment the theoretical learning experience with the practical.

Design of Academic Programmes

Most degrees require students to study courses that are across multiple disciplines. For example, a B.Sc. in Chemistry has a Chemistry-only focus only in the third and final year. In the first two years, in addition to Chemistry, students also study Mathematics and Physics in depth at the undergraduate level. This deepens students' knowledge on subjects closely related to their core discipline.

Choice-based Credit system

Students pursuing the Science and Management programmes have the opportunity to choose electives, which helps them to study courses that they like, thus fostering their academic development and success.

Question Paper Reforms

The question papers for examinations at SSSIHL are designed to motivate students to prepare for the entire course syllabus. They are not wholly memory-based and test other skills of students such as analytical, synthesis, drawing, creativity and originality.

Continuous Internal Evaluation (CIE)

CIE is a measure whereby the student is evaluated on an ongoing basis throughout each semester of their studies. Unlike the End of Semester Examinations (ESE), the CIE entails that students take a series of tests on a monthly basis. CIE comprises of midsemester tests, assignments, case studies,, etc. for which the exact set of components are modified from time to time by the faculty. This ensures that students have a sound and conceptual understanding of the subject. The University is very dedicated to the cause of transforming theoretical knowledge into skills. For students studying the Sciences, the afternoon classes are devoted to laboratory sessions. Those pursuing the Social Sciences, Arts, and Management disciplines dedicate 50% of their weekly class time learning to internalize the concepts studied. This is done through case-studies, self feedback exercises, role-plays, management games, group discussions, outdoor exercises, etc.

Mentoring System

The University has introduced a mentoring system whereby a resident teacher mentors a maximum of 8-10 students every year. This helps the student to blossom in both academic as well as the co-curricular activities of the University. Furthermore, these teachers reside in the hostel or on the campus where the students live throughout the academic year. This facilitates better rapport between teachers and students, and creates an environment for the teacher to help the student in all aspects of the SSSIHL experience.

Distinguished Visiting Faculty

Inspired by the vision of the Revered Founder Chancellor, Bhagawan Sri Sathya Sai Baba, eminent educationists and industrialists from across globe, visit the campuses every year to share their vast teaching and industry experience with students. Thus, the teaching and research at the University is aided and enhanced on a continual basis.

Leadership by Example

True to the unique integral education system of the Institute, students are provided with ample opportunity for the cultivation of leadership, teamwork, ethical and moral behavior. This is accomplished through a strict disciplined routine (both academic and residential) and by the example set by the teaching faculty. The holistic evaluation system incorporates both curricular and co-curricular components (such as sports, culture, service and discipline) to foster unity, teamwork and a spirit of sacrifice amongst both faculty members and students.

Research

The Revered Founder Chancellor constantly emphasises that bookish knowledge must be converted into practical knowledge. The University has always endeavoured to implement this idea.

All its research projects are not only of **social relevance**, but also useful in medicinal diagnostics, agricultural biotechnology, governance & social responsibility implementation, sustainable development, etc.

The University has a twin modular research programme that enables interested candidates to pursue a Master of Philosophy (M.Phil.) or a Doctoral Research (Ph.D.) Programme. Many of the research projects undertaken by the departments of the University are multi-disciplinary in nature.

The University has also been undertaking advanced research in association with organisations such as the University Grants Commission (UGC), Defence Research and Development Organisation (DRDO), Department of Biotechnology (DBT), Department of Science and Technology (DST) and Department of Atomic Energy (DAE), Ministry of Science & Technology, Ministry of Environment and Forests, Government of India, Centre for Scientific and Industrial Research (CSIR), Honeywell, Hewlett Packard Labs and many others.

For a full review of all the research activites and projects undertaken by each of the academic departments, kindly refer to the Academic Departments section (4.3).

4.3 ACADEMIC DEPARTMENTS

OVERVIEW

There are **three** academic **Faculties** and **eleven Departments** at the Sri Sathya Sai Institute of Higher Learning. Each Faculty has a full-time Dean and all departments have a full-time Head.

All recommendations and performance reviews of the respective Departments are forwarded by the Department Heads and Faculty Deans to the Directors of the Campuses, and these in turn, are sent to the Vice-Chancellor for review and necessary action.

Directions on academic and administrative policies are issued by the Board of Management. The Boards of Studies take note of the proposals from the concerned departments for introduction of new courses, revision of syllabi and other such matters, and forward their recommendations to the Academic Council. In this manner, there is rigorous flow of quality checks and control over all academic matters across all subject areas.

In line with the University's philosophy of Integral Education, each academic department of SSSIHL ensures that the curriculum is embedded with measures to induce the all-round development of students' personalities.

To take an example, the research thrust of the University is conceptualised with societal benefit in mind, and all research projects, regardless of department or subject area, must incorporate this. This re-orients the focus of both the faculty and the students of that department towards the achievement of both academic and social excellence.

The following pages gives an **overview** of **each Department** of SSSIHL, including a list of courses offered, teaching and visiting faculty, research thrust and projects, activities and achievements. The more detailed lists of people, activities and publications for the Academic Year 2010/11 are available for reference in the appendices.



DEPARTMENT OF MATHEMATICS & COMPUTER SCIENCE



Vision

To achieve excellence and international recognition in teaching and research in the fundamental and applied areas of Mathematics, Computer Science and Computational Sciences, with a focus towards serving society at large.

Overview

The teaching faculty of the Department of Mathematics & Computer Science (DMACS) is composed of a good mix of expertise in Mathematics and Computer Science, and provides a very conducive environment for learning and growth. Given this unique position, DMACS is committed to fully exploit its potential and venture into interdisciplinary research. The Department offers excellent facilities for research and projects in theoretical as well as technological areas.

Non-linear dynamics, Differential Equations and Fuzzy set theory are active areas of research in Mathematics. High performance computing, Image, Speech and Signal processing, Computer Vision, Machine Intelligence, and Cryptography are major thrust areas in Computer science. A few areas of convergence like Natural Language Processing, Coding, Handwritten Character Recognition, Web Search Engines, Computational Mathematics and Computational Intelligence are also being developed. The faculty

keeps abreast of the latest developments in their fields both by the timely access they have to the leading journals in their respective areas and also by way of collaborating with fellow researchers in the academia, both in India and abroad.

Courses Offered

Undergraduate	B.Sc. (Hons.) in Mathematics		
Postgraduate	M.Sc. Mathematics with specialization in either: (a) Pure Mathematics (b) Applied Mathematics, or (c) Computer Science		
Professional	M.Tech. Computer Science		
Research	M.Phil.	Ph.D.	

Teaching Faculty

Prof. V Chandrasekaran	Honorary Professor	M.Sc., Ph.D.
Prof C Jagan Mohan Rao	Honorary Professor	M.Sc., Ph.D.
Dr. K S Sridharan	Honorary Associate Professor	M.E., Ph.D.
Dr. (Mrs.) Rita Gupta	Associate Professor	M.Sc., Ph.D.
Sri R Subramanian	Associate Professor	M.Sc.
Dr. Pallav Kumar Baruah	Asst. Professor	M.Sc., Ph.D.
Dr. (Ms.) Y Laxmi Naidu	Asst. Professor	M.Sc., M.Phil., Ph.D.
Dr. R Raghunatha Sarma	Asst. Professor	M.Sc., Ph.D.
Dr. S Balasubramanian	Asst. Professor	M.Sc., M.Tech., Ph.D.
Sri N Uday Kiran	Asst. Professor	M.Sc., M.Tech.*
Sri D Hanumantha Rao Naidu	Asst. Professor	M.Sc., M.Tech.*
Sri Sai Shyam	Asst. Professor	M.Sc., M.Tech.
Ms. C R Saranya	Asst. Professor (Part-time)	M.Sc.

Head of Department: Prof. V Chandrasekaran

* also pursuing Doctoral Research

Visiting Faculty

The DMACS in 2010/11 had over thirty visiting professors and industry experts from institutions such as IIT Chennai, Philips, Intelligroup, University of Maryland, IBM, Oracle and Microsoft.

For a complete list of Visiting Faculty for the Academic year 2010/11, see **Appendix A**.

Workshops & Conferences Conducted

This year, a significant workshop entitled, "*International Workshop on Scientific Computing: A Journey from Theory to Practice*" took place from 16 to 18 December 2010.

The focus theme of the workshop was to bring about a new paradigm to interdisciplinary research and education. It sought solution to the need of the hour to bring the communities - one in the modeling & analysis, the other in various application domains and finally the High Performance Computing (HPC) practitioners to discuss recent findings in their respective domains and possible ways of leading to the fusion of ideas for a stronger future for solving relevant problems more realistically.

For a detailed list of this workshop, kindly refer to **Appendix A**.

Workshops & Conferences Attended

Faculty members from DMACS attended five conferences during the academic year:

- Prof. V Chandrasekaran, "IEEE International Conference on Image Processing (ICIP)", Hong Kong, China, 26-29 Sep 2010.
- Dr. Y Laxmi Naidu, "International Conference on recent Trends in Graph Theory and Combinatorics", ICRTGC-2010, CUSAT, Cochin, India, 12-15 Aug 2010.
- N Uday Kiran, B V K Bharadwaj and Mr. D K K Vamshi, "International Congress of Mathematician conducted by IMU, UoH and INSA, Hyderabad", India, 19-27 Aug 2010.
- Pallav Kumar Baruah, "PEMG-2009, Performance Enhancement on Multi-Core Processors & GPUs", CDAC Bangalore, 21-24 Jun 2010.

"Hybrid Parallel Processing Platforms (CPU/GPU) Algorithms & Applications Case Study – Next Generation Application Challenges on PARAM Yuva", CDAC Pune, India, 25-26 Feb 2011.



Other Activities (e.g. Orientation/Refresher Courses/Education Tours)

Dr. Y Laxmi Naidu attended a UGC-Sponsored Refresher course in Mathematics, Ranchi University, Ranchi, 8-28 Mar 2011.

Special Achievements

Dr. Pallav Kumar Baruah, Prof. V Chandrasekaran, Sai Hareesh A and Devi Sudheer Kumar Ch were reviewers for several international and national journals.

Dr. Pallav Kumar Baruah also delivered key note addresses at prestigious seminars and conferences in Bangalore and Chennai. He was also invited to talk at IIT Kanpur and Sathyabama University, Chennai during the year. Additionally, he also served as program committee member for a number of international conferences in the USA, Europe and Asia.

A full list of these activities is included in **Appendix A**.

Facilities Upgraded during Academic Year 2010/11

This year, a host of major infrastructure facilities and technologies were upgraded for the DMACS. These were funded either by the UGC, internally or by industry.

For a complete list of Facilities upgradation, see Appendix A.

Research Overview

Thrust areas of Teaching and Research

- Partial differential equations
- Non-linear coupled differential equations
- Fractional calculus
- Image processing
- Computer vision
- Pattern recognition
- Machine intelligence
- Cryptography

- High performance computing
- Soft computing
- Machine learning
- Fuzzy Control Theory
- Group Decision Making
- Wavelets
- Mathematical Modelling
- Automated Reasoning
 - Character Recognition

Research Projects

There were a total of **six** research projects that were awarded by various agencies and that were ongoing during the academic year 2010/11. One of the major ones is:

Granting	Principle Investigator & Title of	Time Period	Total (Rs.)
Agency	the Project		Allocation
DRDO (ER & IPR)	Dr. Pallav K Baruah Study of Non-linear Interface Problems	16 Jun 2009 to 16 Jun 2012	10.49 Lakhs

Profile: This project aims to study 1) the IVPs associated with nonlinear interface problems; 2) the BVPs and nonlocal BVPs associated with the nonlinear interface problems; and 3) to study the oscillation theory for nonlinear interface problems.

Kindly see **Appendix A** for further details on this project and a full list of the rest of the projects awarded.

Research Scholars

CURRENT DOCTORAL R		
Scholar Name	Area of Research	Research Supervisor
Sri Srikanth Khanna	Fractional Calculus in Image Processing	Prof. V Chandrasekaran
Sri Devi Sudheer Kumar Ch	Enhancing Application Performance of Multi-core Processors	Dr. K S Sreedharan
Sri B V Bharadwaj	Qualitative study of Solutions for nonlinear coupled Ordinary Differential Equations	Dr. Pallav Kumar Baruah
Sri Krishna Kiran Vamsi	A Study of Nonlinear Interface Problems	Dr. Pallav Kumar Baruah



Sri Ajit Padyana	I/O performance enhancement in High performance computing applications	Dr. Pallav Kumar Baruah
Sri Srinath M S	Cyptography using Elliptic curves and other Abelian Varieties	Prof. V Chandrasekaran
Sri Sai Hareesh A	Real-Time Video Super Resolution	Prof. V Chandrasekaran

Journal Papers, Conference Papers and Books

For a full list of the Journal Papers, Conference Papers and Books published and presented during the academic year 2010/11 by the Department of Mathematics & Computer Science, kindly refer to **Appendix A**.

Projects & Dissertations Completed

Eighteen M.Tech. projects and twenty-four M.Sc. Mathematics dissertations were completed in the academic year 2010/11.

A full list of these, including the project titles and supervisors is given in **Appendix A**.

DEPARTMENT OF BIOSCIENCES



Vision

The vision of the Biosciences Department is two-fold:

- To equip students with fundamental knowledge in the life-sciences coupled with an overview of the latest developments with a specialized focus on Biotechnology.
- To train students in modern, essential laboratory skills, and develop expertise in pursuing research pertaining to endemic applications.

Overview

The subject of Biosciences was introduced as early as 1969 at the Anantapur and Brindavan Campuses, well before the inauguration of the department at the Prasanthi Nilayam Campus by the Revered Founder Chancellor in 1982.

To begin with, the focus was on aquaculture, which then shifted to mycology and plant pathology. In the year 1992, emphasis was also given to environmental biology. Since 2003, the primary focus has been Biotechnology. Students at M.Sc. level are given the opportunity to do a dissertation on topics related to biotechnology and bioinformatics.

The department was supported by UGC-Special Assistance Programme (SAP)-Departmental Research Support (DRS) programme (Level-I) from 2004 to 2009. It is currently under the support of UGC-SAP-DRS (Level-II), Department of Biotechnology (DBT)-Bioinformatics Facility (BIF) and Department of Science & Technology (DST)-Fund for Improving Science & Technology (FIST). The department is identified as a centre for Bioinformatics Infrastructural Facility by the Department of Biotechnology, Govt. of India. The department organizes Workshops, Conferences and Symposia once in a semester to provide opportunities for students and faculty to keep abreast with the latest trends in the life sciences.

Courses Offered

Undergraduate	B.Sc. (Hons.) in Biosciences	
Postgraduate	M.Sc. Biosciences with specialization in either: (a) Biotechnology or (b) Mycology and Plant Pathology	
Research	M.Phil.	Ph.D.

Teaching Faculty

Head of Department: Prof. S Krupanidhi

Prof. S Krupanidhi	Professor	M.Sc., Ph.D.
Prof. S S Rajan	Honorary Professor	M.Sc., Ph.D.
Dr. R Basavaraju	Honorary Associate Professor	M.Sc., Ph.D.
Dr. K V Srinivas	Honorary Associate Professor	M.Sc., Ph.D.
Mrs. M Ramasundari	Honorary Associate Professor	M.Sc., M.Phil.
Sri K Anil Kumar	Honorary Associate Professor	B.Sc. (Hons.)
Dr. B S Vijayakumar	Associate Professor	M.Sc., Ph.D.
Dr. A Ashok	Asst. Professor	M.Sc., Ph.D.
Mrs. G Jayaprada	Honorary Asst. Professor	M.Sc.
Miss Isha Sai	Asst. Professor	M.Sc.
Sri K Srinivasan	Honorary Asst. Professor	M.Sc.
Dr. (Miss) Vijeyakumary Vijayaratnam	Teaching Assistant	M.Sc., Ph.D.
Sri P Sujith Kumar	Teaching Assistant	M.Sc.
Miss A V B S Vijayasree	Teaching Assistant	M.Sc.

Visiting Faculty

During the Academic Year 2010/11, the Biosciences Department had prominent visiting professors from both national and international institutions. These included: Univ. of Illinois (USA), Environment Canada (Canada), Kuwait University (Kuwait), Univ. of Wollongong (Australia), BITS (Hyderabad), Shoolini University (HP) and HP University (Shimla).

For a complete list of Visiting Faculty for the Academic Year 2010/11, see Appendix B.

Workshops & Conferences Conducted

The major international conference conducted this year by the department was on 13 and 14 August 2010. The workshop was entitled, "*New Frontiers in Diabetes Research*"

The Department of Biosciences, SSSIHL has a memorandum of understanding (MOU) with Madras Diabetes Research Foundation (MDRF), Chennai. Organizing a conference once every year is one of the aspects of the agreement.

This year, the topics related to molecular epidemiology of diabetes were given emphasis as they are of interest to the students of biology and also medical endocrinologists. Indians with diabetes have peculiar characteristics of their own and are designated as Asian Indian Phenotype. This includes a low body mass index, 2-3 decades earlier onset of diabetes compared to Europeans and stronger heritability factors (Dr. V Mohan). India, represented by a large population having diversified food habits, work culture and pronounced endemicity, the gene polymorphism viz., PPAR γ , glycoprotein PC-1, insulin receptor substrate-2, TCF7L2, adiponectin gene, etc. as the causative factors in the onset of diabetes and possible biomarkers for the disease and therapeutic measures were discussed at length at the conference.

The National Science Day on 28 February 2011 saw a symposium entitled "*Importance of Science in our Daily life*" organized by the Biosciences Department.

For a detailed programme of both these workshops, kindly refer to **Appendix B**.

Special Achievements

Mr. Sai Malleswar V N R has received a Special Prize for the Best Paper presentation at the International Conference on Global Environment and its Sustainability: Implications and strategies, R K M Vivekananda College, Chennai held on 7th Nov 2010 for his paper "*Biomarker for environmental stress induced aestivation*".

A full list of other achievements is included in Appendix B.



Facilities Upgraded during Academic Year 2010/11

The Department of Biosciences was funded under the Basic Scientific Research (BSR) programme of the UGC, New Delhi. The amount was utilised for creating seperate labs for Animal cell culture, Microbiology, Fungal Biotechnology, water analysis, Immunogenetics, etc. Additionally, other upgradations included -80° C vertical Deepfreezer, Autoclave, Electronic balances, Monocular Microscopes and Stereo Microscope with camera.

Research Overview:

Thrust areas of Teaching and Research:

Teaching					
Biosciences and Biot	Biosciences and Biotechnology				
Research					
Cell and Tissue culture	 Micropropagation of plants Mycology and plant pathology 	Microbial fuel cells			
Immunogenetics	KIR, TLR and HLA I allele polymorphism among the inhabitants of Puttaparthi				
Blue proteins	Haemocyanins of invertebrates	Copper transporter proteins and copper bearing proteins and enzymes			
Plant Biotechnology	Bio pesticide Azadirachtin production from elite <i>neem</i> plants	 Enrichment of Azadirachtin related limonoids in <i>neem</i> seeds Proteomics studies in <i>neem</i> 			

Research Projects

There were three research projects awarded by various agencies and that were ongoing during the Academic Year 2010/11. One of the major ones is:

Granting	Coordinator & Title of the	Time Period	Total (Rs.)
Agency	Project		Allocation
UGC : SAP DRS Level II	Prof. S Krupanidhi 1) Plant cell, tissue culture and its applications, and 2) Immunogenetics	1 Apr 2010 to 31 Mar 2015	71.85 Lakhs

Kindly see **Appendix B** for a detailed list of all the projects awarded.

Research Scholars

CURRENT DOCTORAL RESEARCH SCHOLARS		
Scholar Name	Area of Research	Research Supervisor
Sri Sai Malliswar V N R	Studies on the Stress Induced Adaptability in relation to Protein Profiles of a few Selected Organisms	Prof. S Krupanidhi
Sri J Vennel Raj	Studies in Biodiversity of Aegle Marmelos (Linn.) Correa using Morphological Traits and Molecular Markers	Dr. R Basavaraju
Sri K N Naresh	Spectroscopic Properties, Immunogenecity and Phenoloxidase Activity of Oxygen Biosensor: Hemocyanin of <i>Pila Globosa</i>	Prof. S Krupanidhi
Sri Aswath Narayanan S	Biocompatible <i>Vinca Rosea</i> capped silver nanoparticles: Design, Synthesis, Cytoxicity, Geometry, Genotoxicity and antimicrobial infection studies	Prof. S Krupanidhi
Sri Robin Sharma	Antioxident capacity of endophytic fungi from medicinal plants: <i>Aegle mermelos</i> and <i>Ocimum santum</i>	Dr. B S Vijaykumar
Sri Sai Murali R S	Biological and Biotechnological studies on <i>Adhatoda Vasica Nees</i> and <i>Adhatoda</i> <i>beddomei</i> C.B. Clarke	Dr. R Basavaraju
Sri Amoor Viswanathan	Microbial Fuel Cells: Indicators of performance	Dr. B S Vijaykumar
Sri Chandu Vijay	Novel antioxidant assay using immobilized E-coli cells harbouring sodA::gfp gene	Prof. Govind Rao/ Dr. B S Vijaykumar



M.Phil. GRADUATES		
Scholar Name	Thesis Title	Research Supervisor
Ashis S Rasaily	<i>In vitro</i> culture of hepatocytes and drug detoxification	Prof. S Krupanidhi
Sai Krishna S B	A study on the Genetics of Autoimmune diseases of Puttaparthi region	Prof. S Krupanidhi
Prasanth Ghanta	Study of the antimicrobial properties of select Medicinal Plants of Puttaparthi	Dr. R Basavaraju
Sai Anand K K	Isolation, characterization and preliminary studies on optimization of exopolysaccharides produced by <i>Dreschlera puttaparthii</i> sp.nov.	Dr. B S Vijaykumar

Journal Papers, Conference Papers and Books

For a full list of the Journal Papers, Conference Papers and Books published and presented during the Academic Year 2010/11 by the Department of Biosciences, kindly refer to **Appendix B**.

Projects & Dissertations Completed

A number of postgraduate project dissertations were completed during the 2010/11 Academic Year. A full list of these, including the dissertation titles and supervisors is included in **Appendix B**.

DEPARTMENT OF PHYSICS



Vision

- To achieve excellence in theoretical and practical aspects of fundamentals of Physics.
- To equip the students with essential knowledge regarding the latest developments in various areas of Physics.
- To develop into a Center of Excellence in the chosen thrust areas of research of the department, with socially relevant applications.

Overview

The Physics department is one of the premier departments of the university offering quality training to all the students, in learning and practicing physics. The courses offered by the department are designed to equip the students with a solid foundation in the fundamentals of Physics. Interdisciplinary courses are also offered by the department in collaboration with the Chemistry, Biosciences and Mathematics & Computer Science departments of the University.

A comprehensive Photonics Lab with high power lasers, detectors and measurement instruments (signal analyzers) is fully functional. For the last few years, a focused effort has been made to develop research and training in the areas of Nanoscience and

Nanotechnology. The Department now has facilities to synthesize and characterize the Nano materials for specific application of interest.

The department has committed and competent faculty who are actively pursuing sponsored research projects in three frontier areas, namely Nanoscience, Photonics and Applied Nuclear Physics techniques. The members of the department as well as the students are active in co- curricular and extra-curricular programs of the University.

For the past few years, the department has received substantial funds from several government agencies such as Department of Science and Technology (DST), Naval Research Board (NRB), Department of Atomic Energy (DAE)-Board of Research in Nuclear Sciences (BRNS), UGC. The department has also started working on selective industry projects in the areas of optical networking and sensors.

Courses Offered

Undergraduate	B.Sc. (Hons.) in Physics	
Postgraduate	M.Sc. Physics with specialization in either: (a) Photonics (b) Nuclear Physics, or (c) Electronics	
Professional	M.Tech. Applied Optics: Fiber Optics and Digital Processing	
Research	M.Phil.	Ph.D.

Teaching Faculty

Head of Department: Dr. S Siva Sankara Sai

Prof. K Venkataramaniah	Honorary Professor	M.Sc., Ph.D.
Prof. Debendranath Sahoo	Honorary Professor	M.Sc., Ph.D.
Dr. (Mrs.) Dwaraka Rani Rao	Honorary Associate Professor	M.Sc., M.Phil., Ph.D.
Dr. K S Umesh	Associate Professor	M.Sc., Ph.D.
Dr. S Siva Sankara Sai	Associate Professor	M.Sc., Ph.D.
Sri Rajkumar Jain	Asst. Professor	M.Sc.
Dr. O S K S Sastry	Asst. Professor	M.Sc., M.Tech., Ph.D.
Dr. R Gowri Shankar	Asst. Professor	M.Sc., Ph.D.
Dr. (Miss) Deepa Seetharaman	Asst. Professor	M.Sc., Ph.D.
Dr. K Vijay Sai	Asst. Professor	M.Sc., Ph.D.
Mrs. C Prathibha	Asst. Professor	M.Sc.
Sri S Jagdish Chandra	Teaching Assistant	M.Sc.*

*Also pursuing Doctoral Research

Visiting Faculty

The Department saw several visiting professors and industry experts visit during the Academic Year 2010/11. These included institutions such as Kinard Laboratory of Physics, IISc. Bangalore, IIT Madras, AT&T Bell Labs, Lucent Technologies, Indian Institute of Astrophysics, U. of Massachusetts and Goldman Sachs.

For a complete list of Visiting Faculty for the Academic Year 2010/11, see **Appendix C**.

Workshops & Conferences Conducted

There was one workshop conducted by the department during the year:

Title: "Characterization of Materials used in Industrial Sensors"

Date: 10 November 2010 Venue: Multimedia Centre, SSSIHL, Prasanthi Nilayam Campus, Details: The workshop was led by Dr. Ajith Kumar, Vice-President, Advanced Engineering Group, TVS Motors Ltd., Hosur.

Workshops & Conferences Attended

Faculty members from the Department attended the following conference /symposium during the academic year:

- Dr. S Siva Sankara Sai, 3rd Bangalore Nano Conference on "Frontiers of Nanotechnology: Impact on India", Bangalore, Karnataka, 9 Dec 2010.
- Dr. S Siva Sankara Sai, XXXV Optical Society of India International Symposium on "*Contemporary Trends in Optics and Optoelectronics*", Indian Institute of Space Science and Technology (IIST) and Optical Society of India (OSI), Trivandrum, Kerala, 17-19 January 2011.

Special Achievements

Prof. K Venkataramaniah visited GSI Helmholtz Centre fo Heavy Ion Research, Germany on a collaborative project on Atomic Mass Evaluation (AME), Apr–May 2010.

Dr. S Siva Sankara Sai and Dr. R Gowrishankar delivered guest lectures on "*Nanoscience & Nanotechnology*", at the Science Forum, Sri Krishana Devaraya University (SKU), Anantapur, 28 Sep 2010.

Dr. S Siva Sankara Sai delivered two special lectures on "Fourier Transform and its Applications in Optical Image Processing" and conducted a program on "Basic Laser Safety Training" at the Department of Physics, SKU, Anantapur.

Dr. S Siva Sankara Sai visited Sri Krishnadevaraya University as an external practical examiner for M.Sc. (Physics) students, 6-7 Apr 2010.



Research Overview

Thrust areas of Teaching and Research

- Nonlinear optics
- Fiber Optics
- Bio-photonics
- Nuclear spectroscopy
- Applied Nuclear Techniques
- optical Networks
- Nanoscience and Nanotechnology

Research Projects

There were a total of **three** research projects that were awarded by the University Grants Commission (UGC) and the Department of Science & Technology (DST), that were ongoing during the Academic Year 2010/11.

Granting Agency	Principle Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
UGC – Innovative Programme	Prof. K Venkataramaniah / Dr. S Siva Sankara Sai Nanoscience and Nanotechnology	1 Apr 2007 to 31 Mar 2012	34 Lakhs
DST	Dr. S Siva Sankara Sai / Dr. R Gowrishankar Study of Optical Power – Limiting Characteristics of Bacteriorhodophsin for the Design of Detector protection Systems	15 Jun 2009 to 14 Jun 2012	27.8 Lakhs

DST	Prof. K Venkataramaniah / Dr. S Siva Sankara Sai Postgraduate teaching Program: M.Sc. Nanoscience and Nanotechnology	24 Feb 2009 to 23 Feb 2014	162.1 Lakhs
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Research Scholars

CURRENT DOCTORAL RESEARCH SCHOLARS			
Scholar Name	Scholar Name Area of Research		
Sri Benoy Anand	Study of the nonlinear optical properties of Nonostructured materials	Dr. S Siva Sankara Sai	
Sri Muralikrishna M	Nanostructured materials synthesis, characterization and Thermoelectric properties	Prof. K Venkataramaniah	
Sri Suresh P	Aperture Radar (ISAR) image enhancement, feature extraction and motion compensation using time frequency techniques	Prof. K Venkataramaniah	

Journal Papers, Conference Papers and Books

For a full list of the Journal Papers and Conference Papers published and presented during the Academic Year 2010/11 by the Department of Physics, kindly refer to **Appendix C**.

Projects & Dissertations Completed

Twenty Postgraduate Dissertations were completed in the Academic Year 2010/11. A full list of these, including the project titles and supervisors is given in **Appendix C**.

DEPARTMENT OF CHEMISTRY



Vision

To mould students of character, with in-depth understanding of the fundamentals of Chemistry; and focus on research to develop indigenous and affordable chemical technology to help solve the problems of environment, medicine and health pertaining to the immediate requirements of society.

Overview

The objective of the Department is to bring under one roof, related topics that are conventionally treated under each of the major branches of Chemistry, such as inorganic, organic and physical. The emphasis is on in-depth understanding of the fundamental principles and giving training in appropriate computational and experimental methods. Besides the regular teaching of the subject, value orientation (i.e. blending values in the subject taught) in innovative ways, is the constant endeavour of the department. A student graduating with an M.Sc. degree in Chemistry is exposed to almost every aspect of the subject - theoretical, applied, instrumental, computational and experimental, in tune with the latest advancements in sciences, which are essential to mould the students into able and noble scientists of the future.

Courses Offered

Undergraduate	B.Sc. (Hons.) in Chemistry	
Postgraduate	M.Sc. Chemistry	
Research	M.Phil.	Ph.D.

Teaching Faculty

Head of Department: Prof. Chelli Janardhana

Prof. Chelli Janardhana	Professor	M.Sc., Ph.D.
Dr. S Jagadeeswara Rao	Associate Professor	M.Sc., Ph.D.
Dr. C N Sundaresan	Associate Professor	M.Sc., Ph.D.
Dr. G Nageswara Rao	Associate Professor	M.Sc., Ph.D.
Dr. T Ravikumar	Associate Professor	M.Sc., Ph.D.
Dr. K S Narahari	Associate Professor	M.Sc., Ph.D.
Dr. (Miss) Rajni Bhandari	Asst. Professor	M.Sc., M.Ed., Ph.D.
Dr. (Mrs.) G Pavana Kumari	Asst. Professor	M.Sc., Ph.D.
Dr. B Sivakumar	Asst. Professor	M.Sc., Ph.D.
Dr. (Miss) Sahida Sharma	Asst. Professor	M.Sc., Ph.D.
Dr. J Krishna Kiran Kumar	Asst. Professor	M.Sc., M.B.A, Ph.D.
Sri Govind Pratap Singh	Teaching Assistant	M.Sc., M.Phil.*

*Also pursuing Doctoral Research

Visiting Faculty

The Chemistry Department in 2010/11 had visiting professors and industry experts from institutions such as Madras University, NJIT Newark (USA), Andhra University, Northeastern University, Boston (USA), Research Triangle Institute (USA), IIT Kanpur, Bayer Health Care, Germany, etc.

For a complete list of Visiting Faculty for the Academic year 2010/11, see **Appendix D**.



Research Overview

Thrust areas of Teaching and Research

Socially relevant projects centered in the most important fields of chemical sciences namely: Environmental Science and Medicinal Chemistry.

- Environmental Science Air, water and soil pollution with focus on defluoridation techniques to enhance the availability of safe drinking water.
- Medicinal Chemistry Isolation, purification and characterisation of biologically active components from plants possessing medicinal properties and synthesis of biologically active compounds and computer aided drug design with focus on affordable healthcare.

Additionally, the broad areas of Research carried out by the department, are:

- Phytochemistry
- Anion sensing
- Sensor for fluoride and defluoridation
- Novel techniques for trace metal detection
- Correlation of Diabetics to CAD
- Water treatment
- Bio-transformations

Inter-departmental collaborative research projects with the sister institutions like Sri Sathya Sai Institute of Higher Medial Sciences (SSSIHMS), Prasanthi Nilayam and Bangalore is being undertaken to compliment the noble vision of "Affordable Healthcare."

This broad framework will ensure enough scope for related projects in organic synthesis, bio-catalysis and coordination Chemistry, thereby providing an opportunity for bridging the expertise and research interest of all the faculty members and research scholars of the department.

Research Projects

There were a total of **nine** research projects that were awarded by various agencies and that were ongoing during the academic year 2010/11. One of the major ones is:

Granting	Principle Investigator & Title of the	Time Period	Total (Rs.)
Agency	Project		Allocation
DBT	Dr. R Sai Sathish (Ramalinga Raju, Fellow) Application of plasmonic technologies and microbes-fortified biosorbents for efficient integrated bio processing	1 Mar 2011 to 29 Feb 2016	70 Lakhs

Kindly see **Appendix D** for a full list of all the projects awarded.

Research Activities

To complement the work being done on the research projects, the research scholars of the Chemistry department were involved in a host of activities during the course of the academic year. The details of these activities are summarized in **Appendix D**.

Research Scholars

CURRENT DOCTORAL RESEARCH SCHOLARS		
Scholar Name	Area of Research	Research Supervisor
Sri A Sunil	Fluorometric and Photometric Methods for determination of transition metals in trace levels	Dr. S Jagadeeswara Rao
Sri R Sai Giridhar	Lp PLA2: A Study of its role in Coronary Artery Disease in Asian Indians and Novel detection methods using nano bio- sensors	Prof. Chelli Janardhana
Sri M Ramakrishna	Studies on the bioactive constituents of Breynia vitis-idaea, Croton bonplandianum and Euphorbia hypericifolia	Dr. G Nageswara Rao
Sri Abhilash Gangula	Gold Nanomaterials for Environmental and Biological Applications	Prof. Chelli Janardhana
Sri K M Ganesh	Water Quality Assessment, Fluoride sensing and Defluoridation	Prof. Chelli Janardhana
Sri K Naga Sai	Bio-Synthesis and Applications of Cyclic β -, (1 \rightarrow 3) (1 \rightarrow 6) – glucans produced by bradyrhizobium japonicum	Prof. Chelli Janardhana



CURRENT M.Phil. SCHOLARS		
Scholar Name	Research Supervisor	
Sri K Sai Giridhar Sarma	Dr. K Anil Kumar	

Journal Papers, Conference Papers and Books

For a full list of the Journal Papers and Conference Papers published and presented during the academic year 2010/11 by the Department of Chemistry, kindly refer to **Appendix D**.

Projects & Dissertations Completed

Thirteen M.Sc. dissertations were completed in the academic year 2010/11. A full list of these, including the project titles and names of supervisors is given in **Appendix D**.

DEPARTMENT OF HOME SCIENCE



Vision

 To Endeavour to produce scientifically trained women in the areas of Food Science and Nutrition, and Food Technology.

Overview

The University started an Undergraduate Programme in Home Science in 1976, with five core branches – Food and Nutrition, Home Management, Child Development, Clothing and Textiles and Extension Education. The core Home Science subjects were strengthened with other disciplines, contributing practical knowledge from pure science and applied basic science courses such as Sociology, Applied Physics, Applied Chemistry, Biochemistry, Human Physiology, Microbiology etc. The department expanded its programme by inclusion of M.Sc. in one of the specialisation areas.

The Postgraduate Programme in Food Science and Nutrition commenced in June 1985, with an objective to equip students with the knowledge and skills for understanding the role of nutrition in health and diseases. With a view to open wider avenues for students in the fast growing food-based industry, the department initiated another specialization – Food Technology, at M.Sc. level in June 2007. The research programmes of M.Phil. and Ph.D. in Food Science and Nutrition were initiated in the Academic Year of 2008/9.

Courses Offered

Undergraduate	B.Sc. Home Science	
Postgraduate	M.Sc. Food Science and Nutrition	M.Sc. Food Technology
Research	M.Phil.	Ph.D.

Teaching Faculty

Head of Department: Dr. (Mrs.) Rashmi Kapoor

Dr. (Mrs.) Rashmi Kapoor	Associate Professor	M.Sc., Ph.D.
Dr. (Mrs.) B Andallu	Associate Professor	M.Sc., Ph.D.
Dr. (Miss) N Srividya	Asst. Professor	M.Sc., Ph.D.
Miss M Srijaya	Asst. Professor	M.Sc.
Mrs. A Sumana	Asst. Professor	M.Sc.

Workshops & Conferences Attended

The faculty members regularly participate in the annual conferences and other seminars organised by premier national research institutions and local colleges such as:

- Nutrition Society of India
- Association of Food Science and Technology
- Pharmacological Society etc.

Special Achievements

Some of the salient achievements of staff members include the following:

 Dr. (Mrs.) B Andallu received the *APSI Award-Gold Medal* (Academy of Plant Sciences of India) for outstanding contribution in research on Diabetes and Medicinal plants in the 19th APSI Scientist Meet 2010, S N Vanitha Mahavidyalaya, Hyderabad, 30 Sep 2010.

For other achievements refer to Appendix E.

The following equipment was acquired by the Department of Home Science during the academic year 2010/11:

- Portable Penetrometer for field testing
- BOD Incubater with humidity arrangement
- Konica Minolta colour reader CR-10.
- Head space Gas Analyser : Check point

The Department has also established a laboratory to undertake product development technologies.

Research Overview

Research is a significant activity of the department. In order to develop independent research skills in students, the curriculum of M.Sc. in Food Science and Nutrition and Food Technology is designed to provide considerable emphasis on practicals. The department has compulsory dissertation at the M.Sc. level. Students and faculty participation in research is promoted by encouraging them to undertake training in national research laboratories like National Institute of Nutrition (NIN), and Central Food Technological Research Institute (CFTRI).

The department has been actively involved in doing projects of social / local relevance.

- Efforts have been made towards screening of phyotchemicals from a wide variety of foods such as **whole grains** (finger millet, pearl millet, foxtail millet, sorghum, kodo millet, soyabean, mung bean, broad bean, French bean); **fruits** (citrus, papaya, black berry, guvava, mango, apple); **vegetables** (pumpkin, knol khol, momordica charantia); **herbs and spices** (mulberry, Winter cherry, Tinospora, Gymnema sylvestre, cardamom, coriander, aniseeds, cumin seeds, black pepper, cloves etc.) and **unconventional foods** (Spirulina, wheat grass, gums etc.)
- Some of these foods have been tested for their therapeutic efficacy as antihyperglycemic, anti-arthritic, anti-atherosclerotic, anti-cancer and antihypertensive agents using animal models and human clinical trials.
- At present, work is being undertaken to explore the nutraceutical roles of mushrooms, aloe vera (*Aloe Vera barbadensis*) alfalfa (*Medicago sativa*), coriander (*Coriandrum sativum*), etc.

Workshops are conducted to train students in the upcoming research areas.

esearci



Thrust areas of Teaching and Research

Broad areas of Research carried out by the department are:

(a) **Clinical Nutrition**

 Nutrition and Diabetes / cardiovascular disease degenerative diseases / liver & kidney disorders / hyper-tension, etc.

(b) Food Science

- Process and Product Development for normal conditions.
- D Therapeutic Food Development.
- Functional Food Development.
- Food Preservation.

(c) Experimental Nutrition

- Screening of pytochemicals and therapeutic profiles of conventional and unconventional foods.
- ^D Bio efficacy assessments in animals and human subjects.

(d) **Community Nutrition**

- Nutrition Surveillance.
- Demographic studies.
- Providing nutrition education to the vulnerable groups viz. pregnant lactating women, anemic adolescent girls, etc. using novel approaches such as Positive deviance, use of Audio Visual aids, Nutrition games & lectures and demonstrations.
- Development of low cost nutritious technologies for adoption by rural people.
- Training of Child Development Project Officers engaged in nutrition dissemination.

Research Projects

The following is the ongoing research project by the department during the academic year 2010/11:

Granting	Principle Investigator & Title of	Time Period	Total (Rs.)
Agency	the Project		Allocation
UGC Major Research	Dr. (Mrs.) B Andallu Oxidative stress in various diseases and in aging: Influence of natural antioxidants	1 Apr 2008 to 31 Mar 2011	8.8 Lakhs

Research Scholars

CURRENT DOCTORAL RESEARCH SCHOLARS		
Scholar Name	Area of Research	Research Supervisor
Miss Tapasya Anand	Studies on Phytonutrients and Therapeutic Potential of Mushrooms	Dr. (Mrs.) Rashmi Kapoor
Kum Pushkala R	Effect of bio-polymers and ascorbic acid on germination yield and quality of mungbean sprouts	Dr. (Miss) N Srividya
Kum C U Rajeshwari	Assessment of antioxidants potential of Coriander (<i>corandrum sativum</i>) seeds in oxidative stress-induced diseases	Dr. (Mrs.) B Andallu

CURRENT M.Phil. SCHOLARS		
Scholar Name	Research Supervisor	
Miss Iyer Shobha Ramamoorthy	Dr. (Mrs.) B Andallu	
Miss Udyavara Badya Indira	Dr. (Mrs.) Rashmi Kapoor	

Journal Papers, Conference Papers and Books

For a full list of the Journal Papers, Conference Papers and Books published and presented during the academic year 2010/11 by the Department of Home Science, kindly refer to **Appendix E**.

Projects & Dissertations Completed

Eleven M.Sc. dissertations were completed in the academic year 2010/11. A full list of these, including the project titles and names of supervisors is given in **Appendix E**.

DEPARTMENT OF MANAGEMENT STUDIES



Vision

To prepare change agents who will influence the Organization and people around them through personal example, exemplary conduct and dedicated Selfless service along with professional competence.

Overview

The Department of Management Studies was inaugurated on 21 August 1986. With Values-based Management and ethical business practices underpinning the management programmes, the focus is on preparing students to recognize and meet the challenges of the ever-changing business environment and its imperatives. The course content and the syllabi emphasises the Revered Founder Chancellor's vision that the core of management is "Man Management". Accordingly, the classroom instructions are combined with experiential exercises, management games, self-awareness and personality development routines and case study analyses to emphasize this philosophy.

The residential (Hostel) regimen of Self-reliance, the team spirit inculcated during the Annual Sports and Cultural Meet, and the concept of Project Management used in Grama Seva – all these strengthen the concepts of Total Quality Management, Leadership and Entrepreneurial Development learnt in the classroom.

Modern and well-equipped classrooms combined with IT tools, help enhance the learning experience for all students. Academic rigour is further reinforced with first hand exposure to the management styles and practices of leading Manufacturing, Finance, IT and Service organizations, and through regular formal and informal interactive sessions with Industry experienced faculty and successful and eminent corporate thought leaders from India and abroad.

Courses Offered

Professional	MBA	MBA (Finance)
Research	M.Phil.	Ph.D.

Teaching Faculty

Head of Department: Prof. Shiv R Pandit

Prof. U S Rao	Honorary Professor	M.Tech., Ph.D.
Prof. Shiv R Pandit	Honorary Professor	M.Com., M.B.A., Ph.D.
Prof. R Kumar Bhaskar	Honorary Professor	M.Com., Ph.D.
Prof. A Sudhir Bhaskar	Honorary Professor	M.Tech., Ph.D.
Prof. A Anantha Raman	Honorary Professor	B.E. (Mech.), M.B.A., Ph.D.
Sri Viney Thakar	Honorary Associate Professor	B.E., M.B.A.
Sri H J Bhagia	Honorary Asst. Professor	B.E., D.I.M.
Dr. Ramaier Sriram	Visiting Fellow	M.Eng., Ph.D.
Dr. B Sai Giridhar	Asst. Professor	M.Com., Ph.D.
Sri R Renju	Information Scientist	B.E., M.B.A.
Sri Arvind Hejmadi	Honorary Placement Officer	B.E., M.B.A.
Dr. Deepak Anand	Asst. Professor	M.B.A., Ph.D.
Dr. N Niranjan	Asst. Professor	M.B.A., Ph.D.
Dr. S Subramanian	Asst. Professor	M.B.A., Ph.D.
Sri V N Prakash Sharma	Asst. Professor	M.Com., M.B.A., ICWA

Visiting Faculty

During the Academic Year 2010/11, the Department of Management Studies had over **forty** prominent visiting professors from both national and international institutions. These included IBM Canada, Purdue University, TVS Motors, Bank of Baroda, National University, Singapore, Petro Chemicals USA, Birla Group of Industries, Deutsche Bank, Goldman Sachs & Co.

For a complete list of Visiting Faculty for the Academic year 2010/11, see **Appendix F**.



Workshops & Conferences Conducted

The major workshop conducted this year by the department was from 2 to 4 August 2010. The workshop was entitled, "*Innovation and Leadership in Business, Government and Community*".

The workshop brought together leaders from industry, government and academia, to discuss and share best practices and experiences in innovation – across many sectors, including IT, Finance, energy, manufacturing, etc.

A detailed programme of this workshop in included in Appendix F.

Other Activities (Orientation/Refresher Courses/ Education Tours)

- Sri R Renju attended a Faculty Development Programme on "Security Analysis and Portfolio Management", at the Indian Institute of Management, Kozhikode, from 27 Sep to 1 Oct 2010.
- Industrial Visits: All graduating students of the MBA and MBA (Finance) programmes routinely visit industries and companies during their final year to observe and learn from executives in those companies. The full list of the visits this year is given in Appendix F.

Special Achievements

 Mr. B Chandrasekhar has passed the National Eligibility Test (NET) for lectureship and also qualified for the award of Junior Research fellowship (JRF) in the result declared by the UGC in April 2010.

- research
- Dr. B Sai Giridhar was invited by Sri Venkateswara University, Tirupati, 1-2 December 2010 as an *external examiner to conduct Viva-Voce examinations* and for delivering guest lectures for their MBA students.
- Mr. K Sai Chittaranjan has passed the National Eligibility Test (NET) for lectureship by the UGC in October 2010.
- Dr. Shashank Shah had been to IIM Ahmadabad to receive "Association of Indian Management Scholars International Outstanding Doctoral Management Student Award 2010" on 2 January 2011. He was also awarded the 'HR College Golden Alumnus Award' by the Honourable Sheriff of Mumbai – Dr. Indu Shahani at the Annual Prize Distribution Function at HR College, Mumbai, 8 January 2011.

Research Overview

Thrust areas of Teaching and Research

- Values-based Management and Leadership
- Spirituality at the Workplace
- Corporate Governance and Social Responsibility
- Corporate Stakeholders Management and Welfare
- Logistics and Supply Chain Management
- Services Quality
- Emerging Market Finance

- Performance Measurement Systems
- Creativity and Innovation
- Rural Development
- Role of NGOs and Social Service Organizations
- Organization Culture Paradigm
- Cross Cultural Management
- Role of Values and Ethics in Business
- RBI Intervention in the Exchange Market

Research Scholars

CURRENT DOCTORAL RESEARCH SCHOLARS		
Scholar Name	Area of Research	Research Supervisor
Sri Amey Deshpande	Performance Measurement Systems: Framework Development for Corporate Organisations	Prof. A Sudhir Bhaskar
Sri S Sai Manohar	Innovation – the Driver of Future Growth: Development of framework for Organisations	Prof. Shiv R Pandit

M.Phil. GRADUATES		
Scholar Name	Thesis Title	Research Supervisor
Sai Vinod M S	Greening the Supply Chain: Role of Indian Consumer, Industry and Government	Dr. Ramaier Sriram
Suman Narayan B	Study of Existence of Behavioural Factors (sentiment) and effectiveness of various option – pricing models in Indian Stock Market	Prof. U S Rao
Bhabani Shankar Padhy	Social Entrepreneurship – A conceptual Business Model with Social Orientation	Prof. R Kumar Bhaskar

CURRENT M.Phil. SCHOLARS		
Scholar Name	Research Supervisor / Joint Research Supervisor	
Sri Jhaveri Aman Sunil Priti	Prof. A Anantha Raman / Sri Arvind Hejmadi	
Sri K Sai Chittaranjan	Prof. U S Rao / Dr. B Sai Giridhar	

Journal Papers, Conference Papers and Books

For a full list of the Journal Papers, Conference Papers and Books published and presented during the academic year 2010/11 by the Department of Management Studies, kindly refer to **Appendix F**.

Projects & Dissertations Completed

A number of postgraduate project dissertations were completed during the 2010/11 Academic Year. A full list of these, including the dissertation titles and supervisors is included in **Appendix F**.

DEPARTMENT OF COMMERCE



Vision

The vision and focus of the department are captured in the overall objectives of the B.Com (Hons.) programme.

- To impart basic knowledge and skills in all the important subjects in the field of Commerce.
- ¹ To equip the students thoroughly in the field of accounting, finance and taxation.
- To prepare students for advanced studies in Finance and Management and also professional courses in Accounting, Costing, Financial Analysis, Insurance and Corporate Secretaryship.
- To foster ethical and moral values and attitudes for their development as effective personnel for business, industry and the financial services sector.

Overview

The Department of Commerce at SSSIHL was established in 1969 at the Brindavan Campus and was extended to the Anantapur Campus in 1975. With the passage of time, the department has graduated from offering a B.Com. course to a B.Com (Hons.)

programme. The new Bachelor of Business Management (BBM) programme commenced during the Academic Year 2011/12.

The programme has kept pace with the rapid changes in the economic environment and offers the students a wide variety of courses with electives in subjects ranging from Cost and Management Accountancy, International Business, Insurance, Advanced Financial Accounting, Investment Analysis in addition to providing sound basic knowledge in all important subjects in the field. The emphasis on value based learning and an integrated approach to developing the students' personality equip them with skills not merely for living but also for life.

The exposure to senior managers and leaders from industry, as well as the focus on current issues and practical learning, equips the students with a sound base for pursuing higher education and building a meaningful and rewarding career.

Courses Offered

Undergraduate B.Com. (Hons.)

Teaching Faculty

Head of Department: Dr. (Miss) N Niranjana

Dr. (Miss) N Niranjana	Honorary Fellow	M.Com., M.Phil., Ph.D.
Dr. (Miss) Ch Radhakumari	Associate Professor	M.Com., M.Phil., Ph.D.
Dr. (Miss) T R Rajeswari	Associate Professor	M.Com., B.Ed., M.Phil., Ph.D.
Sri Ruchir Desai	Asst. Professor	M.Com., AICWA
Sri Sanjay Sahni	Asst. Professor	M.Com.
Dr. N Siva Kumar	Asst. Professor	M.B.A., Ph.D.
Miss U Suma	Asst. Professor	M.Com., M.Ed.*
Sri Rajeev Rajan	Asst. Professor	M.F.M.

* Also pursuing Doctoral Research

Visiting Faculty

Leading professionals from various industries visited the department during the year to share their expertise with students. Some of the companies they represented included Insurance Corporation of India, Airworks, Tata AIG General Insurance, Ernst & Young, Birla Sunlife AMC, Barclays Capital, and Reserve Bank of India. A complete list of Visiting Faculty is included in **Appendix G**.

Special Achievements

- Dr. N Siva Kumar won the India Insurance Industry Essay Competition award organized by Asia Insurance Review and GIC Re, and was presented the award at the 4th India Rendezvous Mumbai by Sri. N N Meena, Union Minister of State of Finance.
- Dr. N Siva Kumar selected as *Reviewer of Corporate Governance* The International Journal of Business in Society, Emerald Publishing Group, UK.

Research Overview

Journal Papers, Conference Papers and Books

For a full list of the Journal Papers published during the academic year 2010/11 by the Department of Commerce, kindly refer to **Appendix G**.

DEPARTMENT OF ECONOMICS



Vision

- To produce scholars who attain mastery in economic theory and its applications with a view to equipping them to serve in positions of responsibility with the government, international bodies, corporate sector, universities and research institutions.
- To impart necessary training to the students over a period of time for the emergence of socially responsible citizens of tomorrow in keeping with the ancient Indian culture.

OVERVIEW

The Economics department aims to equip students with appropriate quantitative and analytical skills to enable them to successfully handle the complex economic challenges of the modern global world. Specially designed course have been developed to sensitize students to the ethical and human dimensions of Economics.

The fine element of this design is to strike a balance between a rigorous training that has been made essential to acquire adequate skills in the use of computer software and large scale databases to arrive at scientifically correct solutions and promoting deep understanding of theories, providing a wide-view of Economics as a "Social Science".

The core courses offered are intended to provide a well-balanced training in Economic Theory, contemporary applied economic problems, including Finance, Public Economics, and Quantitative Methodology so as to build the essential tools for economic analysis of problems arising in a variety of contexts. Electives or optional courses permit students to acquire a more advanced training in the branches of their choice. In a majority of the courses, the Indian Economy is kept in clear focus.

Courses Offered

Undergraduate	B.A. (Hons.) in Economics	B.Sc. (Hons.) in Economics
Postgraduate	M.A. Economics	
Research	M.Phil.	Ph.D.

Teaching Faculty

Prof. Vishwanath Pandit	Honorary Professor	M.A., Ph.D.
Prof. N Rajagopala Rao	Honorary Professor	M.A., Ph.D.
Prof. K L N Reddy	Professor	M.A., Ph.D.
Prof. G Balachandran	Professor	M.A., Ph.D.
Dr. R Prabhakara Rao	Associate Professor	M.Sc., Ph.D.
Dr. (Miss) M R Geetha Bala	Asst. Professor	M.A., M.Phil., Ph.D.
Sri G Raghavender Raju	Asst. Professor	M.A.*
Sri Harish Mani	Asst. Professor	M.A.*

Head of Department: Prof. G Balachandran

*Also pursuing Doctoral Research

Visiting Faculty

During the Academic Year 2010/11, the Department of Economics had prominent visiting professors and industry experts from across the country, with a lot of experience in their respective fields. Some of these included Delhi School of Economics, National Institute of Public Finance and Policy, NABARD, IIT Madras, GITAM, Appelate Tribunal Chennai, etc.

For a complete list of Visiting Faculty for the Academic year 2010/11, see **Appendix H**.



Workshops & Conferences Conducted

A significant workshop titled "*Water, Health Care and Economy*" was conducted this year by the department on 18 and 19 June 2010.

The focus of the workshop was on the growing importance of water as an economic commodity and how economic principles can be applied for its efficient production and use. The workshop highlighted several issues related to water and related these to areas including healthcare.

A detailed programme of this workshop, full with a list of speakers, is included in **Appendix H.**

Special Achievements

G Raghavender Raju was awarded the **best performance prize in Micro teaching** during the UGC-sponsored Orientation Program conducted by the Academic Staff College, Sri Venkateswara University, Tirupati, 23 Aug to 18 Sep 2010.

Research Overview

Thrust areas of Teaching and Research

- Macroeconometric Modelling
- Monetary, Fiscal and External Policies
- Agriculture and Rural Development
- Development Economics
- Educare and Economics

Research Scholars

CURRENT DOCTORAL RESEARCH SCHOLARS		
Scholar Name	Area of Research	Research Supervisor & Joint Supervisor
Sri S S Rajan	Productivity Growth in Indian Banking Industry	Prof. Vishwanath Pandit
Sri Rajbhushan Nayak	Public Debt in India and its Sustainability: A critical review	Prof. G Balachandran / Prof. Vishwanath Pandit

M.Phil. GRADUATES		
Scholar Name	Thesis Title	Research Supervisor
Sri S Subramanian	Integration of Policy framework in Energy Sector for India	Prof. G Balachandran

CURRENT M.Phil. SCHOLARS	
Scholar Name	Research Supervisor
Sri Gopakumar K U	Prof. Vishwanath Pandit
Sri Siva Kiran Gupta K	Dr. R Prabhakara Rao

Journal Papers, Conference Papers and Books

For a full list of the Journal Papers, Conference Papers and Books published and presented during the academic year 2010/11 by the Department of Economics, kindly refer to **Appendix H**.

Projects & Dissertations Completed

The full list of postgraduate project dissertations completed during the 2010/11 Academic Year is included in **Appendix H**.

DEPARTMENT OF EDUCATION



OVERVIEW

The Department of Education was established in the year 1986, offering a Bachelor in Education programme for women at the Anantapur Campus. Through integral education, the pupil-teachers under training are exposed to values, enabling them to understand the higher purpose of Education.

Thrust areas of the Department

- The Department offers 'Education in Human Values', a compulsory paper of 5 credits in the B.Ed. curriculum.
- The Department with its main objectives has integrated 'Value based Teaching' in every lesson given by the pupil-teachers during practice teaching sessions in their respective methodologies.

Courses Offered

Professional

B.Ed.

Teaching Faculty

Head of Department: Dr. (Miss) Madhu Kapani

Dr. (Miss) Madhu Kapani	Associate Professor	M.A., M.Ed., Ph.D.
Dr. (Mrs.) B Rudramamba	Associate Professor	M.A., M.Ed., Ph.D.
Dr. (Mrs.) P Lavanya	Asst. Professor	M.Sc., M.Ed., M.Phil., Ph.D.
Dr. P Rameshnarayana	Asst. Professor (Part time)	MA., M.Ed., Ph.D.

Special Achievements

Mrs. P Lavanya received her Doctoral Degree from Sri Padmavati Mahila Visva Vidyalayam, Tirupati in the month of June 2011; the title of her research study is "*A study of relationship between Stress and Mathematics achievement of Adolescent students.*"

Workshops & Conferences Attended

The Department faculty attended the following conferences during the academic year:

- Dr. (Miss) Madhu Kapani, "Approaches to human values and integration of human values in secular education", Content Generation Workshop II Education, Vidya Vahini programme, 12-13 Feb 2011.
- Dr. (Mrs.) P Lavanya, "*Current Trends in Education*", School of Education, Christ University, Bangalore, 26-27 Apr 2010.
- Dr. (Mrs.) P Lavanya, "Information and communication Technology applications", Distance Education Centre, Sri Padmavati Mahila Visva Vidyalayam, Tirupati, 26-28 Mar 2011.

Conference Papers

- Dr. (Miss) Madhu Kapani, "Women empowerment with special emphasis on health of women", National Seminar on Human Rights Education, Department of Education, Dravidian University, Kuppam, 8-10 Dec 2010. (Dr. Kapani also chaired a session related to human rights of children and women).
- Dr. (Mrs.) P Lavanya, "Child Right to Education", Innovations in Primary Education, Department of Education, Sri Venkateswara University, Tirupati, 29 Mar 2011.

Research Overview & Projects:

This year, the major research project is as below.

Granting	Principle Investigator & Title of the	Time Period	Total (Rs.)
Agency	Project		Allocation
UGC	Dr. (Miss) Madhu Kapani A study of Environmental Awareness, Environmental values and Environmental responsibilities among students	May 2009 to May 2011	4.21 Lakhs

Progress Report: The Principal Investigator has reviewed the related literature by visiting the libraries and departments of various universities. The tools were prepared by consulting experts in the field, which were administered for the pilot study to standardize the tools.

Tools: The tools administered for collecting data of Environmental Awareness, Environmental responsibilities and values is constructed and standardized by the researcher as:

- 1) Environmental Awareness questionnaire
- 2) Environmental responsibility and Environmental Value questionnaire

The Principal Investigator is in the process of analyzing the data for the final results and submission of the project report to UGC.

DEPARTMENT OF ENGLISH LANGUAGE & LITERATURE



Objectives

- To develop an awareness of the principles and strategies that underline effective academic and professional communication
- To create an awareness of how language is used creatively in literary as well as non-literary texts
- To encourage such creative expression in a guided manner
- To equip the students with all the required apparatus for appreciation of various kinds of imaginative writing in English literature
- To train their critical taste and judgment so as to enable them to arrive at an estimate of a given work of art
- ¹ To respond sympathetically to diverse literary trends and movements
- To use the literary text as a pretext to unravel the deeper mysteries and meanings of the human condition and predicament
- To relate art experiences to life experiences and draw form this exercise valuable moral lessons that would help the scholars not to become mere intellectual giants but also morally empowered individuals

Overview

The Department of English offers a compulsory 'General English' Course for all the undergraduate students (many of who come from all across India, and even abroad) which comprises a study of English language, using prose/poetry and grammar exercises, to improve not only the students' competence in writing but also in speaking skills. The Course is designed in a way that would enable students to apply their knowledge of the language to situations. The oral component of the Course seeks to ensure that the theoretical study of the language does not remain in cold storage, but is translated into an effective tool for communication at all levels. Given the deficiency in the system of imparting English language learning exercise, a rigorous training is sought to be given, to equip the students to communicate confidently and efficiently in English. The Additional English Course – in lieu of another Language – is offered to those students who are unable to opt for Sanskrit, Hindi or Telugu.

The Master's Programme includes a chronological study of literature from Chaucer to the twentieth century. Apart from this, there are papers on Indian writing in English, Commonwealth/American Literature, Literary Criticism, Structure of Modern English, and Electives such as Comparative Literature, European Classics in Translation, Women's Studies, TESL, World Drama.

To meet contemporary challenges, especially of media-related job requirements, the Department has introduced a paper, English for the Media, which helps the students in the acquisition of proficiency pertinent to journalistic writing. The paper includes chapters on the Print Media, Electronic Media, Internet/Web English, and the Language of Advertisements.

Courses Offered

Undergraduate	B.A. (Optional English)	
Postgraduate	M.A. English Language & Literature	
Research	M.Phil.	Ph.D.

Teaching Faculty

Head of Department: Dr. (Miss) Rajeshwari C Patel

Dr. (Miss) S Kanaka Durga	Honorary Associate Professor	M.A., M.Phil., Ph.D.
Dr. (Miss) Rajeshwari C Patel	Associate Professor	M.A., Ph.D.
Dr. V Panduranga Rao	Honorary Associate Professor	M.A., Ph.D.
Dr. (Miss) K P Sai Leela	Honorary Associate Professor	M.A., M.Phil., Ph.D.

Dr. (Miss) P L Rani	Asst. Professor	M.A., Ph.D.
Dr. Vivek Chauhan	Asst. Professor	M.A., Ph.D.
Dr. Arun Kumar Behera	Asst. Professor	M.A., Ph.D.
Sri Prashant Luthra	Asst. Professor	M.A., M.Phil.
Miss Divya Goel	Teaching Assistant	M.A.

Special Achievements

 Miss P L Rani received her Doctoral degree from Sri Krishnadevaraya University, Anantapur, in the month of March 2011. The title of her research was, "South African Literature" and was supervised by Prof. C R Visveswara Rao.

Professional Memberships

- International Association for Teachers of English as a Foreign Language, UK
- International School for Dravidian Linguistics Thirivananthauram
- English Language Teachers Association of India, Chennai
- Indian Association for English Studies, Aliganj
- Linguistic Society of India, Pune
- American Library, Chennai

Research Overview

Thrust areas of Teaching and Research

- Chronological study of literature from Chaucer to the twentieth century.
- Indian writing in English
- Commonwealth/American Literature
- Literary Criticism
- Structure of Modern English
- English for the Media
- Comparative Literature

Highlights

- The Guiding Principle in Curriculum Design: Selection of texts for their value content apart from their literary content
- For General English: Communication Skills (I,S,R,W) through a learning-centred curriculum, task-centred teaching /learning materials
- The Master's Course provides the option (for outstanding students) of doing a dissertation in lieu of one paper in the final semester.

- PG dissertations range from Shakespeare to Twentieth-Century British Literature, Indian Writing to European and American Literature.
- ^D The ongoing research at the M.Phil. level is on Modern British Literature.
- European Classics in Translation
- Women's Studies
- D TESL
- World Drama
- Shakespeare to the Twentieth-Century British Literature
- Modern British Literature
- Indian Writing to European and American Literature

Research Scholars

CURRENT DOCTORAL RESEARCH SCHOLARS		
Scholar Name	Area of Research	Research Supervisor
Miss D Bhargavi	First, Good verses Evil; then, Good and Evil: A quest for moral perspective in select novels of Iris Murdoch	Dr. (Miss) Rajeshwari C Patel
Miss Maitali Verma	The Modern Poetic Traditions and the Reconstitutions of the 'I': Braving the battle between Public Person and Private Self	Dr. (Miss) Rajeshwari C Patel

CURRENT M.Phil. SCHOLARS		
Scholar Name	Research Supervisor	
Miss Lalita Sarma R	Dr. (Miss) Rajeshwari C Patel	

Journal Papers, Conference Papers and Books

For a full list of Articles and Books published during the academic year 2010/11 by the Department of English Language & Literature, kindly refer to **Appendix I**.

Projects & Dissertations Completed

The following dissertation was submitted during the Academic Year.

POSTGRADUATE DISSERTATIONS		
Name	Project Title	Supervisor
Kum. Uma Devi	Diasporic aspect in the selected Novels of Amitav Ghosh: A Study	Dr. (Miss) K P Sai Leela

DEPARTMENT OF TELUGU LANGUAGE & LITERATURE



OVERVIEW

The department of Telugu Language & Literature offers 'Telugu' as an additional language for all the Undergraduate programmes in the first and second years, and 'Optional Telugu' in the B.A. programme. The Postgraduate program of Masters in Telugu Language & Literature commenced in 1971 and the Research Program was introduced in 1974.

Courses Offered

Undergraduate	B.A. (Optional Telugu)
Postgraduate	M.A. Telugu Language & Literature
Research	Ph.D.

Teaching Faculty

Head of Department: Dr. (Ms.) C Padmavathamma

Prof. M Veerabhadraiah	Honorary Professor	M.A., Ph.D.
Dr. (Ms.) C Padmavathamma	Honorary Associate Professor	M.A., Ph.D.
Sri. K Suryanarayana Murthy	Honorary Telugu Pandit	M.A., B.Ed.
Dr. (Miss) P Vijayalakshmi Pandit	Honorary Asst. Professor	M.A., Ph.D.

SUB-DEPARTMENTS

POLITICAL SCIENCE

OVERVIEW

Political Science is offered as a major subject for the Bachelor of Arts programme. This subject is studied as one of the three-subject combinations in the Humanities group.

The primary focus areas are Centre State relations in India, Indian Constitution and Constitutional Mechanisms, Coalition Governance and Compulsions, Political Parties and Systems of Governments.

Teaching Faculty

Dr. R Gangadhara Sastry	Associate Professor	M.A., M.Phil., Ph.D.
Miss G Rajya Lakshmi	Honorary Associate Professor	M.A.

HISTORY & INDIAN CULTURE

OVERVIEW

History & Indian Culture is offered as a major subject for the Bachelor of Arts programme. This subject is studied as one of the three-subject combinations in the Humanities group.

Teaching Faculty

Ms. M Vijayalakshmi	Asst. Professor	M.A., M.Phil.
Sri R Visveswar	Asst. Professor	M.A., M.Phil.

Special Achievements

Documentation of a Radio programme on the life of "*Smt. Sarojini Naidu – The Nightingale of India*", India's foremost freedom fighter and patriot (as a humanist and upholder of reason in the series of "Women of Glory"). The programme was broadcasted by **Radio Sai Global Harmony** on 12 Oct 2010.

A special cultural programme was organized to depict the life and achievements of Sri Abul Kalam Azad as a nationalist on the eve of his centenary celebrations.

PHILOSOPHY

OVERVIEW

Philosophy is offered as a major subject for the Bachelor of Arts programme. This subject is studied as one of the three-subject combinations in the Humanities group.

Teaching Faculty

Dr. (Miss) Sharada Subramaniam	Asst. Professor	M.A., Ph.D.
Dr. (Miss) M. Venkatalakshmi	Asst. Professor	M.A., Ph.D.

Visiting Faculty

Name	Designation	Talk Given Course Covered
Ms. Tery Pecher	Ph.D. Social Work, New York University	General Psychology PHIL -601 (General Psychology – An Overview)

Workshops & Conferences Attended

- Dr. (Miss) Sharada Subramaniam, "Traditions of Spiritualism Mysticism", International Round Table conference, The Afro-Asian Philosophy Association Conference 2010, Dept. of Philosophy, University of Mumbai, 20-23 Oct, 2010.
- Dr. (Miss) M Venkatalakshmi, "Spirituality of Matter and Materiality of Spirit

 Basic Principles of Eco-Philosophy", International Round Table conference, The Afro-Asian Philosophy Association Conference 2010, Dept. of Philosophy, University of Mumbai, 20-23 Oct, 2010.

Other Activities (e.g. Orientation/Refresher Courses/Education Tours)

Dr. (Ms.) M. Venkatalakshmi attended a UGC-Sponsored Orientation course (obtained an 'A' Grade), Pondicherry University, 16 Feb to 15 Mar, 2011.

Chapters contributed for Books

 Dr. (Miss) Sharada Subramaniam, contributed a chapter titled "Value System: Its Individual and Social Dimensions", pp. 224-241, in the book titled Indian Philosophy and its Social Concerns, edited by Sharada Subramaniam and Rani P L, Progressive Books, Chennai, 2010. Dr. (Miss) M. Venkatalakshmi, authored a chapter titled "Educare to Sociocare: The Philosophy of Bhagawan Sri Sathya Sai Baba", pp. 173-196, in the book titled Indian Philosophy and Its Social Concerns, edited by Sharada Subramaniam and Rani P L, Progressive Books, Chennai, 2010.

ADDITIONAL LANGUAGES

HINDI

OVERVIEW

The subject of Hindi is offered as a second language for various undergraduate programmes at both, the Anantapur Campus (since 1972) and the Prasanthi Nilayam Campus (since 1979).

Teaching Faculty

Dr. (Miss) Kiron Bala Arora	Associate Professor	M.A., Ph.D.
Sri S C Jain	Asst. Professor (Part-time)	M.A.
Dr. Piyush Kumar Srivatsava	Part-time	M.A., Ph.D.

SANSKRIT

OVERVIEW

The subject of Sanskrit is offered as a second language for various undergraduate programmes.

Started in June 1979, the subject aims to teach the fundamentals of grammar and outlines of classical literature based on selected portions of Mahakavyas and Dramas.

Teaching Faculty

Dr. CLN Murthy	Honorary Associate Professor	M.A., Ph.D.
Dr. N Venkatesha Rao	Associate Professor	M.A., Ph.D.
Dr. (Mrs.) M Praphulla	Asst. Professor	M.A., Ph.D.

Workshops & Conferences Attended

- Dr. N Venkatesha Rao, "*Raghavendra Teertha to Sarvamoola*", *Kambalooru Vedavyasa Pratishta* 8, Guru Sarva Bhavana Sanskrit College, 17-19 Jul, 2010.
- Dr. N Venkatesha Rao, "Sathya Dharma & Jayateerta", Maharaj Sanskrit College, 10-12 Dec, 2010.
- Dr. N Venkatesha Rao, "Veda Apoursheyatra at Udupi", Vediraja Research Foundation & Rastriya Sanskrit Samstha (Deemed University), New Delhi., 23 Jan, 2011.

Special Achievements

Dr. N Venkatesha Rao was as an *external guide* and assisted in completion of the Thesis of Ranganatha katti on *"Sootrartha Sangrahah"*. The Ph.D. was awarded by *Rashtriya Samskrit Samsthan*, New Delhi in the year 2010.

Articles

- Dr. N Venkatesha Rao, "Sandesha & Upadesha", Suguna Mala, pp. 29-30, Aug 2010.
- Dr. N Venkatesha Rao, "*Raghavendra & Karmanirnaya*", Raghavendra Samputa, pp. 236-240, 2010.
- Dr. N Venkatesha Rao, "*Esha Suvijneya*", Sarvamoola, pp. 17-18, Aug 2010.

Books Published

- Dr. N Venkatesha Rao, "Sadachara Vaibhavam", Hayagreva Prakashana, Jul 2010.
- Dr. N Venkatesha Rao, "*Mantra Deepika*", Hayagreva Prakashana, Dec 2010.

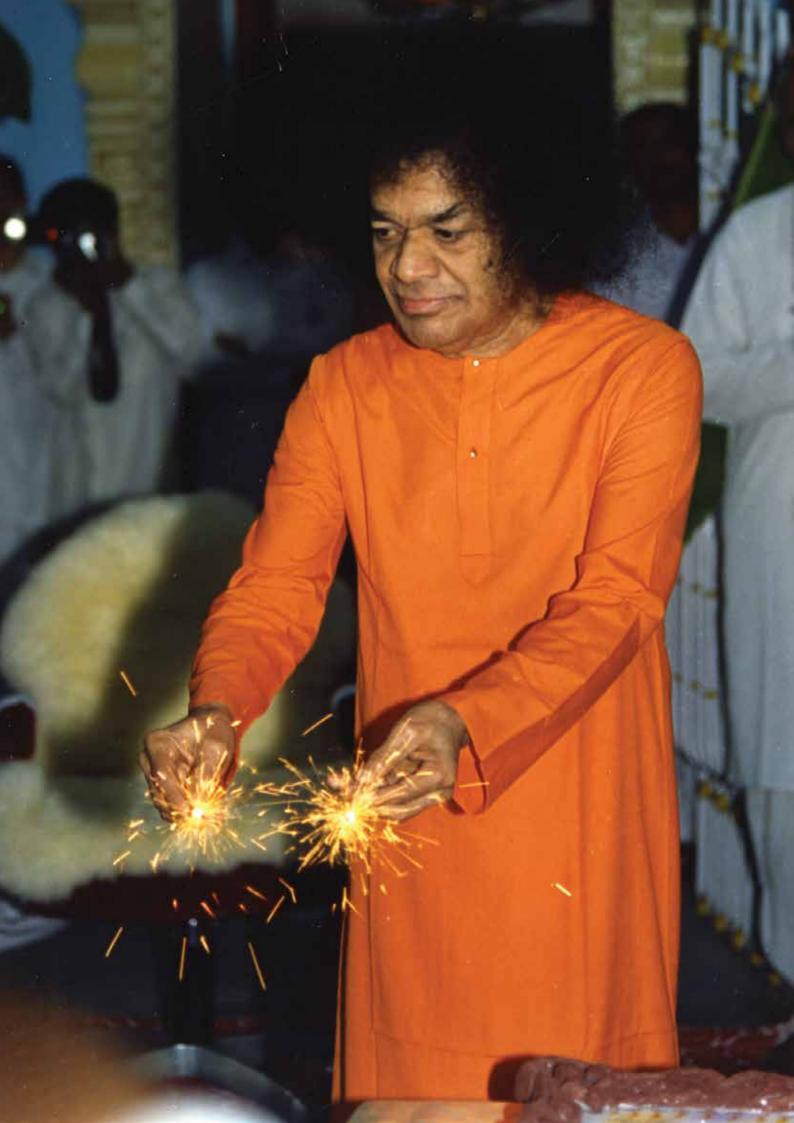




5 INTEGRAL EDUCATION

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5 INTEGRAL EDUCATION

5.1 SPIRITUAL & SERVICE ACTIVITIES

"Spiritual education is not a distinct and separate discipline; it is part and parcel of all types and levels of education, in fact, it is the very foundation on which a lasting edifice can be built. Secular and spiritual educations are like the two halves in the seeds of pulses; the germ that sprouts is in between; it is fed by both."

Bhagawan Sri Sathya Sai Baba, Revered Founder Chancellor

Divine Discourse, Sri Sathya Sai College for Women, Anantapur, 25 July 1975

Hostel Life

The Sri Sathya Sai System of Integral Education, mirrors to a large extent, the tried and tested ancient Indian *gurukula* system of education, of which the Hostel forms a critical component. This residential component of student life is compulsory for every student admitted to SSSIHL.

A lot of thought and effort has gone into evolving this system at the University over the past three decades. The philosophy is based on the approach of community living wherein each one lives for the other and all live together for a common higher cause. Students hailing from different states of India, diverse cultures and varied economic and financial 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. The Hostel buildings too are aesthetically pleasing, thus creating a noble ambience for students to live in.

As a result, the Hostel is a miniature model of the world outside with people of different habits, temperaments, lifestyles, language and outlook staying together and working. This develops the qualities of understanding, adjustment, sharing and caring amongst the students. It nurtures virtues like adaptability, tolerance and sacrifice; developing students into noble and responsible citizens.

The ambience in the hostel is suffused with both discipline and loving care. All research scholars and around one-third of the teaching faculty reside with the students in the Hostel. The relationship between the students and teachers is very cordial and warm, and the teachers pay personal attention to the problems of each and every student. The teachers are chosen with extreme care to play an important role in this process. Many of them are alumni of the Institute, dedicated and well versed



in integral education. They take active part not only in classroom instruction but also by providing help, guidance and general counselling to students whenever needed. At the hostel, they serve as facilitators and are available at all times for mentoring the students on personal and academic matters.

Personal cleanliness, punctuality and regularity, general behaviour, personal etiquette and room cleanliness – these are the major components of the discipline that is followed at SSSIHL hostels.

The Hostel is also a self-sufficient unit housing all the basic necessities of the students, thus avoiding unnecessary movement of students outside the Hostel premises. To minimise the possible negative influences, the students are encouraged to read inspiring literature, listen to elevating music and view meaningful audio visuals. Access to television is restricted primarily to news and informative documentaries. Weekly movie shows consist of themes such as patriotism, adventure, mythology, mystery, action and humour; and they are appropriately edited to suit the ambience of the system. The students are provided with vegetarian and nutritious food.

"Our life in the Hostel was in no way easy. We had to share a room with 13 other students and had to sleep on the floor. We had to eat sitting on the floor and were also called on to serve the food. All these were in addition to the strenuous assignments, tests and case presentations that we had to do. Added to this were the extensive cultural celebrations during every festival. Even today, years later, I still remember those days when I faced such pressure in my daily life. It was so perfect a training for a prospective manager."

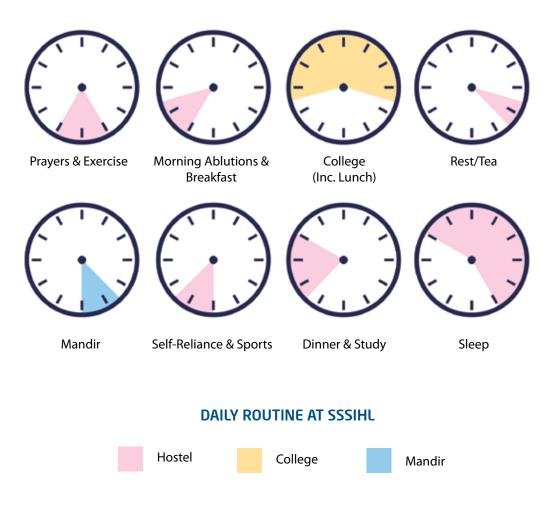
> **N. Vivek, Management Alumnus** PSG College of Technology, Coimbatore

Daily Routine

The daily routine at the Sri Sathya Sai Hostels is designed to keep students engaged in constructive and productive activities throughout the day. Before classes commence at 9 am, students typically spend the first four hours of the morning in prayer, exercise and other vocational pursuits such as practice sessions for music, band, traditional Indian instrumental music and the likes.

After college ends at about 3 pm, the students move to the Mandir for participation in congregational chanting (Vedam), devotional singing (bhajans) and other spiritual activities. These also include talks by eminent speakers on a variety of spiritual topics. Post dinner, students usually spend time on their studies.

Hence, **Hostel**, **College** and **Mandir** – these three are the key areas that make up a student's daily routine at all the three campuses of SSSIHL.





Spirit of Self Reliance

"Being assessed to be having a 'pace-setting' leadership style in my current organisation did not come as a surprise to me after my 7 years stay in the University. All through my stay in the Hostel, I was involved in various activities and notable among them was being the student coordinator of the maintenance team. Even to this day I draw upon the practical lessons that I learnt during those days when I was leading a group of 20-30 students."

Damu Nair, Management Alumnus,

Deloitte Consulting India Pvt. Ltd.

A major portion of the functioning of the Hostel is taken care of by the students and resident staff members. The guiding principles of the Hostel are a simple life coupled with self-reliance. The students do their work with least dependence on external agencies. To inculcate the dignity of labour and respect for work, most functions and departments of the Hostel are run by students under the able guidance of resident faculty. The self-reliance departments include:

- House Keeping (Maintenance, Electrical, Carpentry, Plumbing, Landscaping, Drinking Water Plant)
- **Academic Support** (Library, Computer Centre, Photocopying, Tutorials)
- Health care (Paramedical and First aid assistance, General Hygiene)
- Entertainment (Multimedia and Audio-Visuals for in-house entertainment, Sound Engineering and Recording)
- Support Services (General Stores, Transport Services)
- Culinary (Catering Services, Dietics, Fruits and Snacks, Bakery)
- Fine Arts (Arts, Crafts, Instrumental Music, Vocal Music, Brass Band, Photography)
- Performing Arts (Dance, Dramatics and Costumes, Theatre, Public Speaking, Quiz)
- Publications (Books and Newsletters relating to the education system and interaction with and messages of the Revered Founder Chancellor)
- Spiritual Activities (Festivals, select Ceremonies and Rituals to encourage the spirit of traditional Indian culture and heritage)



These self-reliance activities enable students to become self-confident and independent, and also contribute to leadership and entrepreneurial development. The distinctive feature of these self-reliance departments is the aspect of continuity, in spite of batches of final year students graduating and passing out of the University every year. This is facilitated through an effective succession planning in the traditional *gurukula* style; wherein the senior students train their junior successors before they move out.

The students' involvement in self-reliance activities trains them in time management, enhances their skill sets, fuels their latent talents and creativity – channelising them into productive activities. Other benefits include spirit of teamwork, group dynamics, spirit of selfless-service and enhanced sensitivity. Above all it builds self-confidence and yields self-satisfaction.

Daily Prayers

Collective chanting of prayers and devotional songs at the start of the day is an everyday practice followed by not just the students and teaching faculty, but also the administrators, including the Vice-Chancellor.

One of the most important features of the morning community prayer meeting is observing silent sitting. This is followed by group singing of multi-religious prayers or a talk by one of the students / faculty on topics related to morals and values. Similarly all tests and examinations – formal and informal, monthly and end semester also start with prayers.

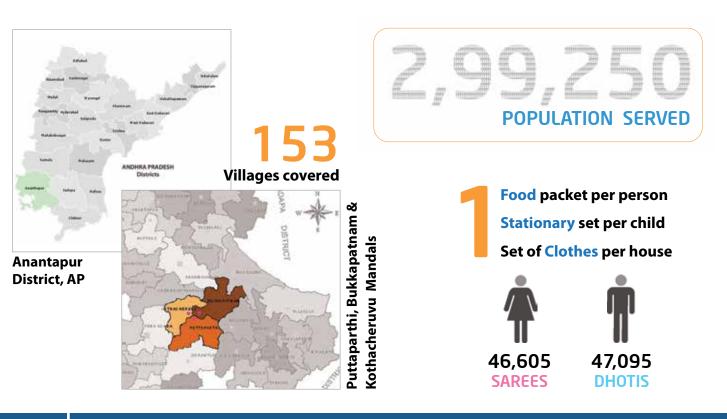


Grama Seva

Manava Seva is Madhava Seva (Service to man is service to God) Bhagawan Sri Sathya Sai Baba, Revered Founder Chancellor

The Sri Sathya Sai Education system lays ample stress on social service, especially in the rural areas. As early as 1968-69, the first year of the college at Bangalore, students would go to the neighbouring villages to undertake service activities. Additionally, for the past three decades, the 18th of November every year would mark an important occasion in the academic calendar of the students. Thousands of rural folk from the surrounding villages would gather at the Sri Sathya Sai Hill View Stadium at Puttaparthi. Faculty and

GRAMA SEVA 8 -17 OCT 2010





students under the guidance of the Revered Founder Chancellor, would distribute food and clothes as gifts to all those gathered on the occasion.

However, from the year 2000 onwards, this service took a new turn in a different format better suiting the requirements of the beneficiaries. The project christened as 'Grama Seva' (village service) is undertaken during the Dasara Celebrations in the Winter semester, when faculty and students of the University visit the nearby villages and lovingly deliver food and clothes at the doorstep of every village member.

Objectives

- To sensitise the students to societal problems and needs of the lesser privileged
- To expose the students to rural Indian life
- To enable the students to appreciate the joy associated with serving the poor and needy
- Do train students in group dynamics and team work
- To train students in the optimal utilisation of time and resources in the execution of projects

Salient Features

- Food and clothes distributed as tokens of love at every doorstep, irrespective of social or economic status
- Activity conducted in an atmosphere of faith and trust
- Cooking, packing, transportation and distribution of food and clothes, sanctified by holy incantation
- Feeling of brotherhood and solidarity expressed through partaking of the same food by students and teachers
- Entire activity undertaken by students and teachers with minimal help from external agencies

This exercise plays a major role in sensitising the students to the ground realties of rural India and in inspiring them to take up such service projects in the future. The Grama Seva is also an exercise in sound management, which gives the students hands-on experience in managing mega projects within stringent timelines.

Thursday Moral Classes

Across each campus, Thursday mornings begin with an hour of inspiring and ennobling talks by eminent speakers stressing on their personal spiritual experiences, messages from sacred scriptures and other elevated and socially relevant themes (such as patriotism, societal service, professional values, Indian culture and heritage and the like).

The moral class is also used to highlight students' talents in music, dramatics, elocution, debates, quizzes, etc. All of these are based on themes highlighting the rich Indian culture and heritage.

On specific occasions, the Revered Founder Chancellor also addressed the students and staff on topics such as importance of education, qualities of leadership, role of students and teachers in society and the purpose of life in the wider context. He also highlighted the glorious message of ancient Indian and world scriptures and epics.

For a complete list of the activities in Moral Classes across the three campuses during the Academic Year 2010/11, kindly refer to **Appendix J**.

Awareness Programme

The Awareness Programme is a Course for both Undergraduate and Postgraduate students, that aims at cultivating a broad view of the human condition. This holistic view includes the contributions of all cultures. It reveals the unity of all great world religions and provides an understanding of their underlying spirituality. It fosters a yearing to alleviate human misery and distress.

The programme helps trigger self-reflection and enquiry in students, sensitising them to the concerns of society and facilitates the formulation of feasible and practical solutions to these problems.

The Awareness Programme at the Undergraduate level covers philosophy of education, unity of religions and faiths, ethos and values and their relevance in the current milieu, life and its quest, study of Indian classics: Ramayana and Bhagavatam. At the Postgraduate level, the focus is on exposing students to the practical aspects of spirituality, enabling them to apply the spiritual principles in the ancient scriptures for dealing with problems of modern society.



Summer Course on 'Indian Culture & Spirituality'

"Education must enthuse youth to understand the precious heritage of Indian culture and spirituality, and to evoke the higher powers they possess. Though there are perennial sources and springs of strength within them, they behave like weaklings and ignoramuses. Patience, tolerance, tranquillity and calmness have to be implanted in the heart."

Bhagawan Sri Sathya Sai Baba, Revered Founder Chancellor

The Summer Course on Indian Culture & Spirituality is an initiative started by Bhagawan Sri Sathya Sai Baba in the early seventies. It serves as an orientation progamme for newly admitted students of the Institute.

The objective is to expose the students of the University to the rich cultural and spiritual heritage of *Bharath*. It orients students into Bhagawan Baba's educational philosophy and gives them first hand deep insights into how they can directly benefit from this unique Institution. This prepares them well to make the best of the rare opportunities that lie ahead of them.

In the Seventies as well as the Nineties, Bhagawan Baba would give a series of discourses each year on Indian Culture and Spirituality. These would typically be thematic. For example, in 1976, the central them was 'The Krishna Avatar' and in 1993, 'The Mind'.

The Summer Course is always a memorable experience for participants, especially newly admitted students.

In February 2011, Bhagawan Baba blessed the Summer Course to be conducted in the first week of June each year, at the beginning of the academic year.



5.2 SPORTS & CULTURAL ACTIVITIES

"Students! You have distinguished yourself in a variety of games and sports. Although these games have a value of their own in the physical field, there is something greater than all of them - the game of life. Treat life itself as a big game. Play it. To achieve a good name and fame in this game of life, you have to cultivate good habits, good thoughts, good speech and good actions...Bharatiya culture is a composite of purity, divinity, sublimity, and beauty. This combination is reflected in sports and games."

Bhagawan Sri Sathya Sai Baba, Revered Founder Chancellor

Divine Discourse, 14 Jan 1990

If we look at the philosophy and evolution of sports and the fine arts, we cannot miss the fact that the fundamental premise of sport, much like the fine arts, is to express energy channelised through an activity for realising the inner potential. Though competitive sport is a mode of bringing out 'the best', the philosophy of sport and the fine arts has and will always be to express 'one's best.' Every participant should be motivated to bring out his/her inner potential.

Annual Sports & Cultural Meet

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 Institute Of Higher Learning

Throughout the academic year, at each campus, students participate in a host of sports and cultural activities. Examples of these include:



- Music, dance, drama, quiz, panel discussion and elocution, held on a regular basis.
- Competitions are often held in all these activities, as well as in Veda chanting, stotra recitations, and teachings of the Bhagavad Gita to promote among students a deep understanding and appreciation of India's rich and ancient culture and spiritual heritage
- Painting, sketching/drawing, card-making, bookmark-making, preparation of useful articles out of waste
- Musicians are given opportunities to sing devotional songs
- During Dramas and the preparation leading to dramas, a number of students are involved in music, sets, lighting, costumes, makeup, etc., all of which hone their participative and leadership skills in organizing such functions
- Students are also encouraged to come forward and speak in front of the university community on topics ranging from science to metaphysics, thus giving them an appropriate platform to develop their public speaking skills and to motivate a refined thought process

These sports and cultural activities at the University culminate at the Annual Sports and Cultural Meet, held on the 11th of January every year, marked by a grand display of cultural, athletic and dare-devil items. These include national and international sports items like equestrian events, two and four wheeler stunts, para sailing and gliding, bungee jumping, carabining, martial arts, lion and dragon dances, eastern and western dances, musical medleys, gymnastics, human formations and many others.

During these events, the best in the students emerges in myriad forms, not so much for their personal glory, as for a deep sense of satisfaction. Students of all the Campuses of the University get a chance to present their talents and skills before the Revered Founder Chancellor; the uniqueness being that every student, participates in some form or the other.

This year the Sports & Cultural Meet was held over two days, in the evenings of 11 and 12 January 2011, at the Sri Sathya Sai Hill View Stadium. A brief report is given here.



DAY 1: 11 Jan 2011

Bhagawan Baba arrived at 5pm through the northern end of the Sri Sathya Sai Hill View Stadium overlooking the Sri Sathya Sai Primary School. A motorbike escort of students drove in regally welcoming Bhagawan into the stadium. The Anantapur campus band, slow march squad bearing flags and the University brass band formed part of this grand procession. After Bhagawan ascended the dais, He lighted the ceremonial lamp to mark the beginning of the proceedings.

At the outset, more than 1,600 students from all the Sri Sathya Sai educational institutions marched past the dais saluting Bhagawan Baba.

The first performance of the evening was by the Anantapur campus. Their first item was showcasing of stunts on Apache 160 RTR motorbikes, followed by a presentation of Yoga asanas, where students performed various postures on a structure of a ship's mast. This was followed by an innovative kite formation and finally a release of balloons.

The next presentation was a short one from the students of Sri Sathya Sai Institute of Higher Medical Sciences (College of Nursing and Allied Health Sciences). Dressed as nurses, they brought out the nobility of the nursing profession through various formations and dances.

Lastly, the Brindavan Campus students commenced their presentation with a performance by the Brass band. They followed this with a dance item (full with yogic postures, lights and a peacock in bloom), and concluded with a Chinese dragon dance and an ancient Indian style martial arts performance.

The last performance for the evening was on a huge steel grid suspended fifty feet above the ground. Students made beautiful formations beginning with **85 Years of Love**. It was a treat to watch them joining each other's legs and hands to make these formations. Calling themselves aerial acrobats, these messengers of love performed with skill, dexterity and balance. Their feats ended with the beautiful formation, "We Love You Sai – Yours Forever". Aarati was offered to Bhagawan Baba at 6:45pm, thus marking the end of the first day.



DAY 2: 12 Jan 2011

On this evening, Bhagawan came to Sri Sathya Sai Hill View Stadium at 5:15pm, preceded by a motorbike escort. The procession included a lion dance from the Prasanthi Nilayam campus, a dragon dance from the Primary School and the brass band of the Brindavan campus.

The first to perform in this session were the students from Sri Sathya Sai Primary School. "Universe is a Divine Play in His Safe Hands" was the theme for their programme. It conveyed that Bhagawan's outstretched, all-embracing hands were protecting the universe. A dance by the girls students was followed gymnastics and balancing acts. Smt. Easwaramma English Medium School, the new entrant to this Sports and Cultural Festival, gave a good account of themselves with a short performance of dances and floor exercises choreographed to perfection.

The last performance for the evening session was the students from the Prasanthi Nilayam campus (including Sri Sathya Sai Higher Secondary School and Sri Sathya Sai Mirpuri College of Music). The first item was gymnastics on vaulting horse, parallel bars and balancing acts on a structure. Unity Cup 2011, an exhibition of cricket strokes and catching skills was the next presentation. The next item was a display of harmony in lights, titled 'star wars'. Students made various formations like the wave formation with wands of light. The final item of the Prasanthi Nilayam campus was a lion dance by the Prasanthi Lions.

All students converged for the final formation. A display of fireworks followed. Aarati was offered to Bhagawan at 7:10pm. Thus ended the Annual Sports and Cultural Festival of Sri Sathya Sai Educational Institutions, 2011.



Festivals at SSSIHL

Highlighting the essence of all religions, the Revered Founder Chancellor says, "There is only one religion, the religion of love; there is only one caste, the caste of humanity; there is only one language, the language of the heart; there is one God, He is omnipresent."

The celebration of festivals from all major religions every year helps build a unique awareness in the mind and heart of each Sai student.

At the Prasanthi Nilayam campus, Puttaparthi, the Ashram is a place that enables a transformation in the lives of the students. It is 500 meters away from the Hostel, sprawling over 200 acres of space and houses the Revered Founder Chancellor's residence, temples, an auditorium and boarding and lodging arrangements for visitors.

The students from the men's campus at Bangalore and the women's campus at Anantapur come to Prasanthi Nilayam on all important festival occasions such as Guru Pournima, Navaratri, Christmas and New Year, Shivaratri, University Convocation and the Annual Sports and Cultural Meet. These festivals are celebrated in their true traditional fervour and the Revered Founder Chancellor addresses the students explaining the spirit and the inner significance of these rituals and ceremonies. These festivals act as an eye opener for the students and expose them to the rich culture and heritage of India that has survived the test of time of the last many millennia.

Every student is involved in one way or another during these festivals of the year. A couple of examples are given below.



Brass Bands

The brass bands of the University is a story of dedication, effort and grace. Bhagawan Baba spent considerable amounts of His time to initiate the brass bands at the Prasanthi Nilayam and Anantapur campuses. In the beginning since there was no one to teach the western instruments such as the trumpet, clarinet and the saxophone, Bhagawan Baba sent celebrated trumpeters like Maynard Fergusson and other instrumentalists to teach students how to play these instruments.

With the hard work and effort that goes into the practice sessions around the year, it is no surprise that the University today has two most versatile and complete brass bands. It has instruments such as the Sousaphone, the French Horn, the Baritone Sax, and other latest percussion and wind instruments, most of which are *Yamaha*. The senior students teach their juniors as they gain expertise in their own instruments.

The Brass Bands get an opportunity to perform on a number of occasions such as the Annual Convocation and the Annual Sports Day of the University and many other Indian and international festivals.

Dramas

The Hostels house independent costume facilities fully manned by the students, which provide exhaustive services for the several dramas and skits performed during the Annual Convocation, Annual Sports and Cultural Programmes, and a variety of festivals (celebrated in the Ashram) before huge public gatherings. The quality and versatility of the productions - performed by students from all the three campuses - are very high, and are regularly performed in front of thousands of people.

The length and extent of the festivities that each student is a part of is highlighted in the Festival Calendar that follows. It includes the major festivals, cultural programmes and other activities that students took part in during the Academic Year 2010/11.



Festivals Calendar 2010/11

SUMMER SEMESTER				
April				
1 Thu		Gratitude Program – Undergraduates from Brindavan		
27 Tue		Vishu Celebrations		
Мау				
6	Thu	Easwaramma Day Celebrations 2010		
25	Tue	Lava Kusha Ramayana – a Dance Drama by Bhagawan's Students		
June				
1	Tue	SUMMER SEMESTER BEGINS		
July				
1	Thu	Lava Kusa - Burrakatha in the Divine Presence		
25	Sun	Gurupoornima		
August				
15	Sun	Independence Day Drama - Swaraajya Gaatha		
September				
2	Thu	Sri Krishna Janmashtami		
4	Sat	Shiva Parvathi Kalyana Mahotsavam		
10	Fri	Eid-Ul-Fitr in Prasanthi Nilayam		
13	Mon	Ganesha Immersion 2010		
October				
7	Thu	Shiva Parvathi Kalyanam - Burrakatha		
12	Tue	Dasara		
17	Sun	Dasara Poornahuthi		
17	Sun	SUMMER SEMESTER ENDS		
18-31 October WINTER VACATION				

WINTER SEMESTER			
November			
1	Mon	WINTER SEMESTER BEGINS	
5	Fri	Diwali Celebrations	
6-7	Sat-Sun	Global Akhanda Bhajans	
21	Sun	Convocation Drama	
22	Mon	SSSIHL 29 th Annual Convocation	
23	Tue	Bhagawan Baba's 85 th Birthday	
December			
1	Wed	Bhakthi Sangeetha Vibhavari, a music programme by students	
5	Sun	Prema Pravaham, a music programme by students	
25-27	Sat-Mon	Christmas Celebrations	
31	Fri	New Year's Eve Programme	
January			
1	Sat	New Year's Programme	
11-12	Tue-Wed	Annual Sports & Cultural Meet	
13	Thu	Bhagavatha Saaramu – Drama by Prasanthi Nilayam Campus	
15	Sat	Valedictory Function of Sports & Cultural Festival 2011	
19	Wed	10 th Anniversary of Sri Sathya Sai Institute of Higher Medial Sciences (SSSIHMS), Whitefield, Bangalore	
24	Mon	Thyagaraja Aradhana, a performance by Music College Students	
26	Wed	Republic Day	
March			
3	Thu	Mahashivaratri	
31	Thu	WINTER SEMESTER ENDS	
1	April - 31 May	SUMMER VACATION	

5.3 OTHER ACTIVITIES

Workshop on 'Character building in Integral Education - The Sri Sathya Sai Model'

In line with the commitment to further the process of Integral Education at SSSIHL, a workshop titled Character Building in Integral Education was conducted on 29 and 30 October 2010 at the Institute. It brought together faculty members and research scholars across all the SSSIHL campuses. They were invited to participate and share ideas, experiences and best practices with respect to the process of Character Building in the distinctive Integral Education Model of SSSIHL.

The intent of the workshop was to provide a forum to build community and to stimulate discussion, new insight and experience sharing. The key administrative officers of the University were also part of this workshop.

The workshop wasn't a one-off event. Rather, it was a part of a series of workshops and meetings, and in the long view, a deliberation on the problems, solutions and new ideas, which the faculty and scholars came together to discuss.

The objectives of the workshop were to deliberate on the domains of the Integral System that exists within the University, its components, its critical success factors, the role of teachers and the like.

Over and above the tangible aspects of it, a lot of time during the workshop was spent discussing the fact that the critical success of this model of education depended largely on the *intangible* aspects of it. These include factors such as:

- Clarity of the Institute's Vision and Mission
- **Focus on the Revered Founder Chancellor's Principles and Messages**
- Alignment to His Expectations
- Unity among Faculty
- Striving for Excellence in their Roles
- Harmony between thought, word and deed

In his inaugural address, the Vice-Chancellor stressed that Bhagawan Baba was very keen that the University faculty and administrators regularly conduct workshops on these lines, and that as a Chancellor, unlike other universities, Bhagawan Baba was personally involved, and He set an example Himself for everyone to follow at every level of their individual responsibilities.

Over the two days, the workshop held fourteen sessions, which covered the various dimensions of the University (Spiritual, Discipline, Behaviour, Physical, Cultural and Service), discussed the innovative models for integral items, and the new ten-point scale grading system for both the Academic and integral items. Feedback from individuals during breakout sessions was duly noted and the workshop concluded with a roadmap for the future.

NAAC Peer Team Visit and Re-accreditation process

In order to thoroughly assess the progress made by the University, a high profile team of ten people visited Prasanthi Nilayam from 20 to 23 September 2010. The team consisted of the following:

Prof. Bhoomitra Dev	Former Vice-Chancellor, Deendayal Upadhyaya Gorakhpur University, Lucknow	Chairperson
Dr. Jagannath Patil	Deputy Advisor, NAAC, Bangalore	NAAC Rep
Dr. (Mrs.) Kerma S Lyngdoh	Former Pro. Vice-Chancellor, North Eastern Hill University; Professor of Education, Shilong, Meghalaya	Member
Dr. S P Singh	Professor Emeritus, Dept. of Chemistry, Kurukshetra University, Haryana	Member
Prof. Sher Ali	Dept. of Molecular Genetics, National Institute of Immunology, New Delhi	Member
Prof. B K Sharma	UGC Emeritus Fellow, Dept. of Physics, Rajasthan University, Rajasthan	Member
Prof. Baldev Raj Gupta	Former Head, Dept. of Journalism, Banaras Hindu University, New Delhi	Member
Prof. Javid Akhter	Dean, Faculty of Management Studies, and Research, Aligarh Muslim University	Member
Prof. K K Bajaj	Former Dean, CDC & Controller of Examinations, Himachal Pradesh University	Member
Dr. (Mrs.) Dhulasi Birundha Varadarajan	Chairperson, Dept. of Environmental Economics, Madurai Kamaraj University	Member

The team visited the University Administrative Office, as well as all the three campuses of the Institute: Prasanthi Nilayam, Anantapur and Brindavan. The Programme sheet is as below:

DAY 1: Mon 20 Sep 2010

Event	Venue
Meeting with the Vice-Chancellor followed by Presentation on the University	Prasanthi Nilayam
Team 1 – Visit to Department of Mathematics and Computer Science, and Department of Physics	Prasanthi Nilayam Campus
Team 2 – Visit to Dept. of Management Studies and Department of Economics	Prasanthi Nilayam Campus
Meeting with themembers of the Board of Management	Prasanthi Nilayam

Cultural Programme by SSSIHL students in the presence of the Revered Chancellor, Bhagawan Sri Sathya Sai Baba	
Visit to Sri Sathya Sai Hostel for senior students	Prasanthi Nilayam Campus

DAY 2: Tue 21 Sep 2010

Event	Venue
Visit to Department of Chemistry and Department of Biosciences	Prasanthi Nilayam Campus
Team 1 – Visit to the Computer centre, central Library, Multi-media Learning centre and Language lab	Prasanthi Nilayam Campus
Team 2 – Meeting with the Director of Anantapur Campus	Anantapur Campus
Team 3 – Meeting with the Director of Brindavan Campus	Brindavan Campus
Team 1 – Visit to central facilities and administrative units – Registrar's and Controller of Examination's offices	Prasanthi Nilayam
Team 2 – Visit to Departments of Home Science, Education, English, Biosciences, Mathematics, Chemistry, Commerce and Physics	Anantapur Campus
Team 3 – Visit to Departments of English, Biosciences, Chemistry, Commerce, Physics, Mathematics and Computer Science	Brindavan Campus
Team 1 – Verifying documentary evidence	Prasanthi Nilayam
Team 2 – Visit to Central Library, Computer Centre, multimedia learning centre, Language Lab and sports facilities	Anantapur Campus
Team 3 – Visit to Central Library, Computer Centre, multimedia learning centre, Language Lab and sports facilities	Brindavan Campus

DAY 3: Wed 22 Sep 2010

Event	Venue
Meeting with students	Prasanthi Nilayam
Meeting with parents	Prasanthi Nilayam
Meeting with alumni	Prasanthi Nilayam

Visit to Planetarium, Indoor Stadium, Hill View Stadium and Tertiary care Super Speciality Hospital (Sri Sathya Sai Institute of Higher Medical Science)	Prasanthi Nilayam
Meeting with members of Internal Quality Assurance Cell (IQAC)	Prasanthi Nilayam
Report writing and Team Discussion (Private Session)	Prasanthi Nilayam

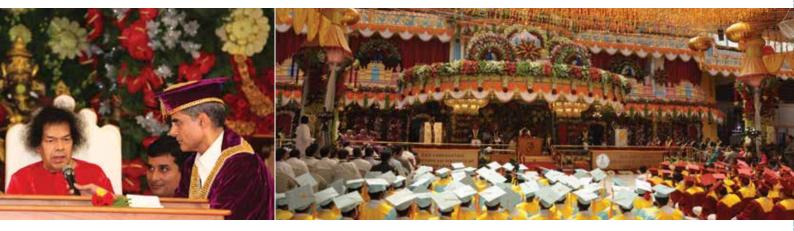
DAY 4: Thu 23 Sep 2010

Event	Venue
Sharing the report with the Vice-Chancellor	Prasanthi Nilayam
Finalizing the report after receiving the feedback from the Vice-Chancellor	Prasanthi Nilayam
Exit Meeting	Prasanthi Nilayam

After thorough assessment of the facts and progress made, the National Assessment and Accreditation Council (NAAC) granted SSSIHL re-accreditation on 8 Jan 2011. This is valid for five years up to 7 Jan 2016.

On the basis of the accomplishments of the University having achieved a **Cumulative Grade Point Average (CGPA) of 3.625 (of max 4), SSSIHL was granted a top rating of an 'A' grade** status for the same period.

Kindly see **Appendix K** for a copy of the original Certificate of Accreditation and Quality Profile awarded to SSSIHL in January 2011.



29th Annual Convocation

I hereby solemnly declare and promise that, if admitted to the degree for which I have been duly recommended, I will in my daily life and conversation, and in thought, word and deed, conduct myself as befits a member of the Sri Sathya Sai Institute of Higher Learning; that I will to the utmost of my capacity and opportunity, support the cause of sound learning, humanity, morality and spirituality; and that as far as lies in me, I shall uphold and advance the social and indeed all round welfare of my countrymen and fellowmen.

Convocation Oath, Sri Sathya Sai Institute of Higher Learning

These sentiments are aptly reflected in the Oath that the students take on the Convocation ceremony, held every year on 22 November, in the immediate presence of the Revered Chancellor, Vice-Chancellor and other dignitaries.

The Revered Chancellor presides over the Convocation and very respected and eminent personalities grace the occasion as Chief Guest. Over the last three decades, Presidents, Prime Ministers and Cabinet Ministers of the Government of India, Chief Ministers and Governors of Indian States, ardent devotees and many educationists and legal luminaries have participated in the Convocation ceremony and proceedings.

The highlights of the function are the conferring of the various Doctoral Degrees and Gold Medals (given personally to the rank holders by the Revered Chancellor), addresses by the Vice-Chancellor and the Chief Guest, and the Benedictory Message by the Revered Chancellor. The programme concludes with a play staged by the students of the Institute, focusing on the unique lessons learnt by them in the University that they would like to share with the wider world. These plays are personally directed by the Revered Chancellor and his eye for perfection motivates students to give their best.

"Service rendered to society is the sure road to prosperity. This is the lesson which this Institute will teach, with the brotherhood of man, as its inspiration. When this Institute succeeds in this effort, it will be an example for other centres too and they too will strive towards the ideal. It will encourage transformations in moral, material, ethical, spiritual and political spheres too."

Sri Sathya Sai Baba, Revered Founder Chancellor

1st Convocation, 22 November 1982

This year, the 29th Convocation of Sri Sathya Sai Institute of Higher Learning (Deemed to be University) was held at Sai Kulwant Hall, Prasanthi Nilayam on 22 November 2010, with over ten thousand people present. The convocation procession led by the brass band of the University entered the colourful venue at about 11 am.

The procession included the Revered Chancellor of the Institute, Bhagawan Sri Sathya Sai Baba, Dr. Manmohan Singh, the Prime Minister of India, Prof. J Shashidhara Prasad, the Vice-Chancellor, three former Vice-Chancellors, members of the Board of Management, Trust and the Academic Council of the University. Other dignitaries who joined this procession were Sri E S L Narasimhan, the Governor of Andhra Pradesh, and Sri K Rosaiah, the then Chief Minister of Andhra Pradesh. Other attendees included Sri Shivraj Patel, Governor of Punjab, Sri Yeddyurappa, Chief Minister of Karnataka, Sri Virabhadra Singh, Union Minister of Steel, Sri M K Stalin, Deputy Chief Minister of Tamil Nadu, and Sri Ratan Tata, Chairman, Tata Group of Industries.

To commence the function, the Vice-Chancellor offered a rose to the Revered Chancellor and the Registrar welcomed the Chief Guest Dr. Manmohan Singh, by garlanding him. The proceedings of the convocation started with sacred Vedic chants by a group of students of the Institute. After this, on the request of the Vice-Chancellor, the Revered Chancellor declared the convocation open – and pressed a button to unveil a billboard, displaying, '29th Convocation of Sri Sathya Sai Institute of Higher Learning'.

The order of the day was the following:

Vice-Chancellor's Introductory Speech

In his inaugural speech, Vice-Chancellor Prof. J Shashidhara Prasad, extended a warm and cordial welcome to the Chief Guest, Dr. Manmohan Singh, whom he referred to as one of the most brilliant academicians and economists of our times. Quoting from a Discourse of Bhagawan Baba, the Vice-Chancellor reiterated that the objective of the University was to impart education that developed both, students' intelligence and character, and purified their impulses and emotions so as to make them shining examples of spiritual awareness. The Sai experiment, he said, had stood the test of time and students passing out of the University were being regarded by their employers as men of highest integrity with concern for society and environment, while endowded with the qualities of leadership, work ethics, time management, patience and perseverance.

Dwelling on the research programme of the Institute, the Vice-Chancellor stated that the University alsways undertakes socially relevant and community oriented research and was planning to enhance the research facilities further. In conclusion, he prayed to Bhagawan for His blessings to make each one in the University to play his role, however small, in His Divine Mission of redemption of the world.

Graduands presented to the Revered Chancellor

After the introductory speech of the Vice-Chancellor, Sri G Srinivas Srirangarajan, Controller of Examinations of the Institute, presented the graduands to the Revered Chancellor for the award of degrees. Thereafter, the Vice-Chancellor administered the customary oath to them. The names of the winners of Gold Medals for excellence in academic performance were then announced. They came one by one and received their Gold Medal from the Revered Chancellor. In all, 23 Gold Medals were awarded to the meritorious students. Besides the Gold Medals, the Revered Chancellor conferred the degrees of Doctor of Philosophy on seven research scholars.

Prime Minister's Convocation Address

The Chief Guest, Dr. Manmohan Singh offered his salutations to Bhagawan Baba on His 85th Birthday which, he said, coincided with the convocation function, imparting special significance to this convocation. Referring to his coming to Prasanthi Nilayam in 1995 as the Chief Guest of the convocation, the distinguished speaker observed that the changes that had occurred here in the last fifteen years were phenomenal and that Prasanthi Nilayam had become an international township where people from all parts of the globe belonging to different races and cultures stayed together in unity which reflected the central idea of India, unity in diversity. It was what, he added, made our great nation unique.

Referring to the system of education being followed in the University under the guidance of Bhagawan, Dr. Manmohan Singh observed, "This institution has consciously sought to amalgamate a system of formal education with wholesome development of character". He appreciated the endeavour of this University for structuring its curricular programme and project work with an awareness of duty and social responsibility and exhorted one and all to put the values of Sathya, Dharma, Santhi, Prema and Ahimsa into practice in their day-to-day life as taught by Bhagawan.

In reference to the humanitarian work done by Bhagawan with regard to supply of water to hundreds of villages, free medical facilities and free education to thousands of beneficiaries and many other projects for the benefit of the masses, the Prime Minister said, "This a commendable commitment, and a determination to alleviate the sufferings of the poor and the needy with a spirit of giving that is unfortunately all too rare. Such benevolence and philanthropy should be an example to the many in our country who have the means, but are yet not able to emulate it".

Before concluding his Convocation Address, the Prime Minister congratulated the students that they received rare opportunities in this University to develop their full potential, achieve academic excellence and imbibe time-tested values. He advised them that it was important for them to keep in mind the many around them who have not had the privilege that the students of this University enjoyed and help in whatever way it was possible, those who were less fortunate and less privileged than them.



Revered Chancellor's Benedictory Address

Delivering His Benedictory Address, the Revered Chancellor of the University emphasised the need for unity in the family which was the basis of progress of society. Referring to the commitment to truth, charity and high character of great women of India, Bhagawan advised the modern men and women to develop noble character and maintain unity and harmony in the family and society. Bhagawan advised students to consider all as their brothers and sisters and develop the spirit of unity.

The Convocation came to a close at 1:20pm after Aarati.

Twameva Saranam Mama: Convocation Drama

On the occasion of the 29th Convocation of Sri Sathya Sai Institute of Higher Learning and the 85th Birthday celebrations of the Institute's Divine Chancellor, Bhagawan Sri Sathya Sai Baba, the students of the University presented a drama entitled "Twameva Saranam Mama" on 21 November 2010.

The drama started with a dance by a group of students in front of a magnificent Vitthala temple installed in the performing area. The ensuing scenes of the drama highlighted the teachings of Bhagawan Baba that God protects those who uphold Sathya and Dharma in their life and take refuge in Him with total surrender. This truth was depicted through the story of an ordinary tailor whose earnestness in his profession and unswerving devotion to Lord Vitthala earned him the deservedness of the grace of the Lord, who manifested before him and came to his rescue at a critical juncture in his life. The episodes of Sakkubai and Emperor Alexander befittingly reinforced this truth. At the conclusion of the drama, Bhagawan blessed the cast and posed for group photographs with them. After a brief session of Bhajans and distribution of Prasadam to all, the programme came to a close with Aarati to Bhagawan at 7:20pm.

For a complete text of the Vice-Chancellor's and the Prime Minister's Convocation addresses, the Revered Chancellor's Benedictory Address and a complete list of all the Gold Medalists and Ph.D. awardees, kindly refer to **Appendix L.**



Bhagawan Baba's 85th Birthday Celebrations

Bhagawan Sri Sathya Sai Baba's 85th Birthday – a day to remember, a day to cherish – the 23rd of November 2010 is to be ensconced in letters of gold in the annals of history.

Devotees throng

The Birthday witnessed a huge concourse of devotees. People from every part of the world had come to witness this event. Long serpentine queues had become an everyday occurrence during the Birthday Celebrations from 15th November 2010 onwards, and were especially accentuated on 22 and 23 November. The Ashram authorities and the office bearers of the Sri Sathya Sai Organisation had made elaborate accomodation arrangements for people at the Prasanthi Nilayam Ashram. Special shelters had been laid for the convenience of devotees.

Beautiful well-carved and digital printed flex arches bearing the 85th Birthday Logo and the lettering 85th Birthday of Bhagawan were put up at various points both inside and outside the Ashram. Historic sites and temples of different faiths from various states of India were represented as models all around the ashram.

Free food for all (and Free medical camps)

Bhagawan Baba had made arrangements for the distribution of free sumptuous food in unlimited quantities from 15 to 24 November 2010, irrespective of any considerations whatsoever. Food was served for all sessions – breakfast, lunch and dinner. In the evening, tea was also served. Special food pavilions were put up for gents and ladies. One hundred counters were arranged to serve food to devotees. Additional counters too were arranged on 23rd November, drastically reducing queueing times.

Medical camps were also organised separately by Sri Sathya Sai Seva Organisation, India and by the Overseas organisation in the Ashram.



The Morning Function

At the Sri Sathya Sai Hill View Stadium, the venue of the Birthday function, devotees had queued up as early as 2:30-3am. The entire stadium was decorated elaborately. Three large LED screens were placed at vantage points in the stadium for a better view of the proceedings. High power speakers were placed both in the gents and ladies side. Flags of different nations were hoisted at the periphery of the stadium. A large balloon with the wordings **Happy Birthday Bhagawan Sri Sathya Sai Baba** was hovered above the gathering. The stage was adorned with floral designs. An ornate silver and gold rimmed throne was arranged for Bhagawan. Life-size photographs and sayings of Bhagawan were placed around the stadium.

The proceedings of the Birthday function began with Veda chanting at 8am followed by Bhajans by students.

Bhagawan entered the Sri Sathya Sai Hill View Stadium at 11:25am in a Golden Chariot. The programme of the morning consisted of a rendition of songs by renowned artists such as Sri Shankar Mahadevan, the acclaimed playback singer, Sri Hariharan, an adept in Ghazals and playback singers, Sri Suresh Wadkar and Sri Sumeet Tappoo.

This was followed by a brief speech by Sri V Srinivasan, an industrialist and All India President of Sri Sathya Sai Organisations. Following his speech, Sri V Srinivasan introduced a number of distinguished guests and requested them to grace the occaision with a speech. These guests included:

- Sri S M Krishna, External Affairs Minister, Government of India
- Sri E S L Narasimhan, Governor of Andhra Pradesh
- Dr. Subramaniam, the Mayor of Chennai



Sri Sathya Sai Vidya Vahini Project

Sri S V Giri, former Vice-Chancellor of Sri Sathya Sai Institute of Higher Learning was incharge of introducing the Sri Sathya Sai Vidya Vahini (SSSVV) project, a new nationalscale project blessed by Bhagawan Baba.

The mission of this project is to provide education through human values to all quarters of society. This is of significance as over 250 million people in India lack access to quality education. It is an open-ended project which will harness technology as the key enabler and replicate on a national scale, the success of the model of Integral Education - a system of education combining values education with academic excellence - followed at the University and schools founded by Bhagawan Sri Sathya Sai Baba. It will also help create a generation of well-qualified young men and women, creating in them a keen sense of integrity and empathy for their brethren, and a serene spiritual discipline.

This project, blessed by Bhagawan Baba on 6 May 2010 (on the occasion of Easwaramma Day) has been developed in collaboration with Tata Consultancy Services (TCS), with the active cooperation of Dr. Ratan Tata, Chairman, Tata Sons and Sri Chandrasekaran, CEO of TCS. The specialised software was formally presented to Bhagawan by Dr. Ratan Tata and Sri Chandrasekaran. This marked the official launch of SSSVV.

Sri V Srinivasan then announced the launch of two new projects – a dedicated **Sai Net**, which would bring all Sri Sathya Sai Seva Organization volunteers of India in one integrated system, and a **Digital archive system** which will capture all the activities of Sri Sathya Sai Organisation.

He who remembers them all

The next programme for the morning session was a series of short speeches by beneficiaries of Bhagawan's benediction. Common people from different backgrounds narrated stories of how Bhagawan Baba's love had transformed - and in some cases saved - their lives.

The speeches below are all first-person narratives. They were given in their native languages and are translated into English.

The first speaker was Sri P Narasimha Reddy from Pothipadu village of Anantapur District. He said:

"Rayalaseema receives very less rain. People had to walk long distances to fetch water. It was because of the compassion of Bhagawan that 731 villages in Anantapur District received supply of pure drinking water in 1995. After Bhagawan gave us water, we have been receiving copious rains. It is because of the Super Specialty Hospital that people of this district receive good medical treatment for chronic diseases."

The next speaker was Sri Suryanarayana Reddy from Kutrawada village of East Godavari district. He said:

"We had no proper drinking water system and as a result, people were consuming polluted water and that was the cause of diseases. Bhagawan spent crores of rupees to lay pipelines and construct tanks. We receive medical care regularly from Sri Sathya Sai Seva Organisation. They construct schools, have built Bhajan centres and hold medical camps."

Lakshman Bhai from Rajkot, Gujarat was the next speaker. He said:

"A massive earthquake shook Gujarat in 2001. Many buildings crumbled in that impact. First the members of Sri Sathya Sai Organisation came to our help. Then Bhagawan sent truckloads of relief material containing food, medicines, clothes and articles of daily need. Under the leadership of Sri Chiranjeevi Rao, food grains, clothes and tents were laid. We express our gratitude to Bhagawan."

Sri R M P Rajendran Nadar from Keechan Kuppam, Tamil Nadu spoke next. He said: "The State of Tamil Nadu came under the effect of Tsunami on 26th December 2004. Nagapattinam was the worst affected. Under the stewardship of Sri K Chakravarthi, relief materials were sent from Prasanthi Nilayam by Bhagawan. The government relief material could not reach us. When people were crying for help, a white army came and first disposed the putrefied bodies and gave medical help to the injured. Now we have got another life."

Sri Ravindranath Sahu from Orissa, the next speaker, said:

"In 2008, the State of Orissa was affected by flash floods. Many were affected. Bhagawan sent Sri A Ramakrishna, Sri Kondal Rao and Sri V Srinivasan to estimate the damage. 700 houses were constructed. First the Seva Dals came and helped us, and then Bhagawan gave us succour by constructing permanent houses for us."



Ijaz Ahmed, a taxi driver from Bengaluru city spoke next. He said:

"I had a severe heart problem and received timely treatment from Super Specialty Hospital, Whitefield, Bengaluru. Prior to this, another hospital in Bengaluru declared that I cannot survive long. I was then taken to Bhagawan's Super Specialty Hospital. An angiogram was done and open heart surgery performed on me. I was completely cured. I was also fortunate to have Bhagawan's darshan when he visited the hospital at that time. The hospital offers treatment completely free of cost. This does not happen anywhere in India."

The last speaker was Sri Rangappa from Nedumamidi village of Anantapur district. He said:

"I used to smoke beedi, cigarette and drink brandy. A doctor diagnosed that I had a gastric problem. Then the Sri Sathya Sai mobile hospital under the leadership of Dr. Narasimhan came to my village, at my doorstep. The doctors took an X-ray and diagnosed it as a heart problem. I was then sent to Super Specialty Hospital, Prasanthigram, where I was completely cured without a trace."

During his concluding remarks, Sri Srinivasan announced that Bhagawan has launched another project of distributing free food to villages where the Sri Sathya Sai mobile hospital (a service whereby a team of qualified medical practitioners cover several villages and bring healthcare and medicines - for free - to their doorstep) was conducting check up camps. This is another sign of Bhagawan's compassion, he said.

Aarati was offered to Bhagawan at 1:10pm, which marked the conclusion of the morning session of Bhagawan Baba's Birthday celebrations.



The Evening Function

As devotees waited at the Sri Sathya Sai Hill View stadium for Bhagawan's arrival, Veda chanting was in progress. At 6:00pm *Bhajans* commenced. The entire stadium was clothed in light. All the statues were lit up. The welcome arch was effervescent and colourful with multi-hued lights. The administrative building of the University and the Sanathana Samskruti museum were brightly lit up. There was an elegant silver throne on the stage for the Lord on His Birthday. The stage with its ornamental golden-hued decorations presented a grand spectacle with lights.

Bhagawan arrived at 7:35pm after which the programme entitled "*Prema Pravaham*" was presented to Him by His students.

The programme consisted of a series of songs, highlighting various aspects of the Sri Sathya Sai Avatar. This was accompanied by a video presentation consisting of rare archival footage going back to the sixties.

At the end of the programme, Bhagawan blessed and gave *Padanamaskar* to the Music Director, Sound Engineer, composers and to His students who performed.

Dazzling fireworks adorned the firmament as the song "Humko Tumse Pyaar Kitna" was played in the background. This was followed by a laser show.

The programme concluded with Aarati being offered to Bhagawan at 8:50pm.



5.4 SSSIHL ALUMNI

"My students are My property".

"The University will confer on its alumni the courage and confidence, the knowledge and skill to shape their career by their own efforts, standing on their own legs and relying on their own strength"

Sri Sathya Sai Baba, Revered Founder Chancellor

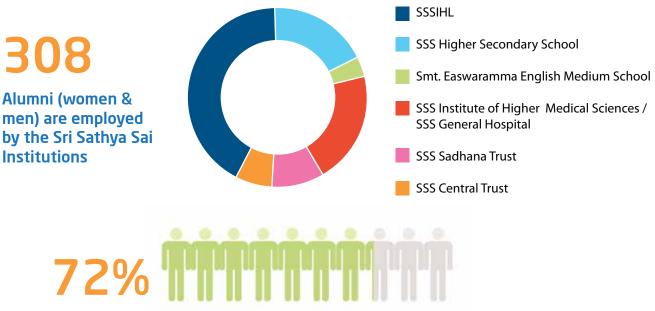
One often asks the valid question that with so much effort and emphasis on integral education at SSSIHL, what *real impact* has it had on the daily lives of its alumni?

The ceaseless efforts and Love of the Revered Founder Chancellor over the years, the dedication of hundreds of teachers and senior students, the hard work by administrators and other staff of the university...all of these combined over three long decades have had a visible impact on the lives of thousands of students who have graduated from the portals of Sri Sathya Sai Institute of Higher Learning.

The Fraternity

The unique aspect of being an alumni of SSSIHL is the strong links that students form, not just within and between themselves, but also with the Institutions set up by Bhagawan Baba. These include the University, the various Trusts, the Ashram, the Hospitals, the Service Organizations and other various projects that have evolved over the years.

The statistics below highlights some of these:



of all alumni are involved in Sri Sathya Sai Organizations worldwide, many of them in leadership positions.



SSSIHL Alumni Impact Analysis Study

Whilst at the University, the Educare system was designed to ingrain a balanced outlook in students, which is provided by the interface between the three components of Head (knowledge), Hands (skill) and Heart (balance).

To gain an accurate understanding of the impact SSSIHL has had on graduates, a substantial alumni survey was conducted by the University in 2010. It was aptly titled **SSSIHL Alumni Impact Analysis Study**.

THE SURVEY

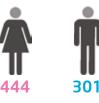
The impact of the alumni of Sri Sathya Sai Institute of Higher Learning was analyzed across the **three dimensions** mentioned below:

- a) **Impact on the Workplace** (Head / Knowledge component)
- b) **Impact on Society** (Hands / Skills component)
- c) **Personal Transformation** (Heart / Balance component)

THE RESPONDENTS

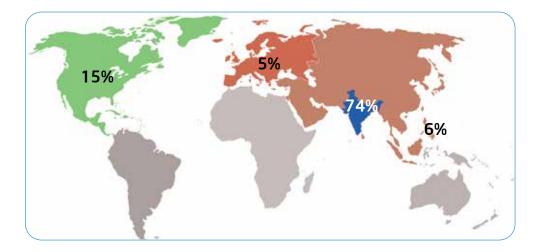
Who are they?







Where are they?

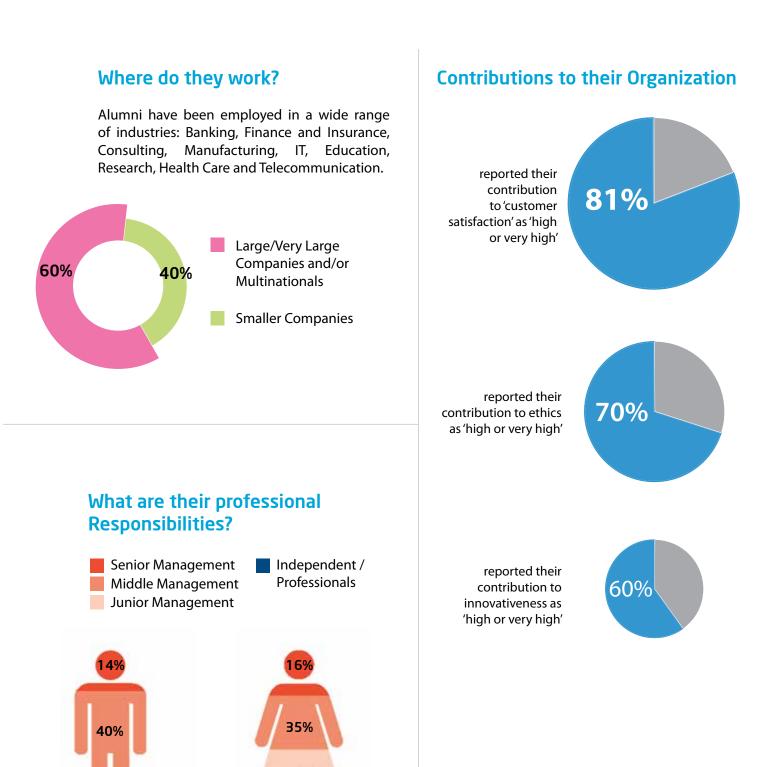


THE RESULTS

a) IMPACT ON THE WORKPLACE (Head / Knowledge component)

"I don't know why, but the students from Sri Sathya Sai Institute of Higher Learning are unique and totally different. In my entire corporate life, I have come across many professionals but never witnessed the display of a character like these students have. Parents like me have a vision for our children and that is a comfortable life, success and money. But after seeing the students of this University, it has made me realize that I would be a proud mother if my child possesses a character like them."

Director, HR Operations, Xansa India Ltd., Noida, 2005



41%

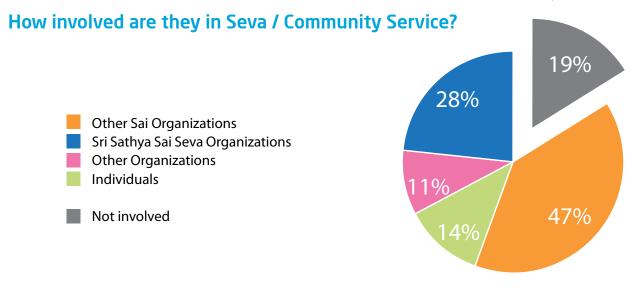
8%

24%

b) IMPACT ON SOCIETY (Hands / Skills component)

"I cannot think of any other place where academics, music, singing, dance, sports, public speaking are all encouraged keeping spirituality as the undercurrent. So much so that even the most introvert people become dynamic. Their potentialities are tapped and by the time the student passes out, (s)he knows in what way (s)he can serve society."

B. Venugopal, Management Alumnus, Bank of America, Hyderabad



What are the typical roles they play in Sai Organizations?

- Lead Bhajan Singer
- Coordinating Narayan Seva
- As a Speaker
- Seva Coordinator

- Coordinating Health Camps
- Study Circle Coordinator
- Coordinating Village Service Programmes
- Educare / Bal Vikas Teacher

What are the typical roles they play in other Organizations?

- Feeding the poor & hungry
- Providing Education
- Childrens' Welfare
- Medical Camps
- Environmental Projects
- Rural Development



At home and abroad, during times of natural disasters such as the Orissa cyclone, Gujarat earthquake, tsunami in Tamil Nadu and Andamans, floods in Andhra Pradesh and Tamil Nadu, and Hurricanes in USA, alumni have rushed relief to the affected victims. The survey revealed that wherever adequate number of alumni were located, they worked together as a group to coordinate service activities. In other cases, they did service as part of the SSSSO or other voluntary organisations. The survey also highlighted that a considerable number of alumni were in leadership positions at various levels of the Sri Sathya Seva Organizations.

c) PERSONAL TRANSFORMATION (Heart / Balance component)

"A seed is soaked in water and then germinates and grows into a plant and a tree. Reflecting on the last 20 years, I feel that the years spent in the University is comparable to the time when the seed is soaked in water – the water of love and discipline. Over the years, to my own astonishment and joy, the seed has germinated and grown into a plant. I have developed qualities I never knew I had, I never knew I had learnt. Without my awareness, these qualities and abilities continue to be developed within me."

Nirmala Shekhar, Anantapur Campus Alumnus, Software Consultant

At the core of the effort to bring about a change in the world lies the effort to transform oneself. It is critical to evaluate this journey of personal transformation that started at the Sri Sathya Sai Institute of Higher Learning.

A majority of Alumni said that love of and faith in God, positive thinking, contentment, forbearance, love for fellow beings, discrimination, patience and adaptability were among the main qualities they acquired while at the university. They expressed that lessons learnt rippled into each sphere of life and in turn touched all those with whom they came in contact.

A few responses from some of the respondents:

- "It has made me accept things and people around me in a positive way. I п have started loving people for what they are.... tolerance and acceptance levels have increased ... "
- "It has made my life very meaningful... I learnt to lead a disciplined life... It п has shaped me to be always positive and contented."
- "The strong impact of the Sathya Sai Education system has made my life very meaningful. It has helped me to contribute to society, to understand other people better, to make a difference in bringing up my children and to have a living God in my heart every moment."

Impact on Home Life

One of the aspects of personal transformation that the survey from the Anatapur Campus alumni emphasized was the impact of their educational experience on home life. One of four respondents stays at home in order to take care of the family and in addition to respond to the needs of the immediate neighborhood. We found that many of those who are home makers take time to conduct Balvikas classes and thereby influence the neighborhood children with values-based education.

Qualities such as patience, forbearance, adaptability, contentment and time management, acquired during their stay at their alma mater, have helped both home makers as well as those who work outside the home to achieve a fine work-life balance.

9 in 10 Alumni felt that their experience at SSSIHL

contributed **SIGNIFICANTLY** to one or more of the following:

- Patience & perseverance
- Leadership
- Inspiring others by example

- Organizing time effectively

7in10 Alumni felt that their experience at SSSIHL

contributed **VERY SIGNIFICANTLY** to one or more of the following:

- Integrity
- Work ethics
- Concern for society and environment П
- Dealing with different types of people
- Working in teams

DO THEY STILL FOLLOW THE ROUTINE?

Activities they would do at the Activities they continue to do.. University: 64% 13% 83% **Prayer & Meditation** 78% 43% 27% Yoga / Sports / Exercise **68%** 22% 27% **Studying Scriptures** 15% 31% **68% Devotional Singing 58%** 3% 9% **Feeding the Poor 54%** 12% 6% **Community Involvement** 47% 3%5% **Rural Development** 45% 4% 14% **Speaking to Groups Daily Weekly Monthly Yearly**

As put by a respondent, "What I am today - playing multiple roles such as wife, mother, daughter, daughter-in-law, teacher in a medical school and my behavior towards my family and the working staff at my workplace - is due to my days in my alma-mater as we were groomed in such a way to take on life's challenges..."

The performance of the University alumni in their respective professions and institutions and in their social and family life is evidence of the success of the experiment of valuesbased integral education offered at the Sri Sathya Sai Institute of Higher Learning, over the last 3 decades.

The lessons learnt by the students in the portals of this University are not confined to the period of their stay in the University alone. They carry these lessons and the message of the Revered Founder Chancellor into the wide world and strive to get a good name for themselves, their parents and the University. This is the expectation of the Revered Founder Chancellor from each of the students graduating from the University.



APPENDICES

hails have



APPENDICES

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Appendix A Department of Mathematics & Computer Science

Visiting Faculty

Name	Designation	Purpose	Duration
Mr. M Srinivasan	Senior Executives, Intelligroup, Bangalore	To teach Software Engineering	1 Jun to 31 Oct 2010
Prof. Ashok Srinivasan	Florida State Univ., USA	Ph.D. Supervision	1 Jun 2010 to 31 Mar 2011
Prof. D Bala Subramanian	Ex. Anna University	To teach Calculus to UG	1 Jun 2010 to 31 Mar 2011
Prof. G V Prabhakar Rao	HOD, RGMCET, Nandyal	Ph.D. Supervison, Teaching PG/M.Tech.	1 Jun 2010 to 31 Mar 2011
Prof. Jayaprakash	Ex. Univ. of Malaysia and IIT Madras.	Teaching PG courses	1 Jun 2010 to 31 Mar 2011
Mr. Srinivas Peddada	CTO, DNB, Chennai	Java course for I M.Tech. Lab	4 Jun to 18 Jul 2010
Prof. Ramesh Sharma	Univ. of New Heavens, USA	To teach Differential Geometry to II M.Sc. Maths	12 Jun to 8 Aug 2010
Dr. S Sriram	Philips, Netherlands	Discussions on Speech enhancement techniques with Mr. Hanumantha Rao	29 Jun to 1 Jul 2010
Prof. S Panchanathan	Chief Resources officer, ASU, USA	Discussion with students and staff for research projects	1 to 11 Jul 2010
Mr. Kamal Singh Bathla	Maestro Technologies, USA	Discussion on development of DIMS for DMACS	4 to 16 Jul 2010
Mr. Amarnath Veeramali	VIT Infotech, Bangalore	DIMS Development	5 to 11 Jul 2010
Mr. C K Narayana	Post Doc Research fellow, ASU, USA	Talk and Training: Sensor based Human Activity recognition	7 to 11 Jul 2010
Prof N S Umanath	Univ. of Cincinnati, USA	To teach DBMS	15 Jul to 9 Aug 2010
Mr. M C Rathnakar	HiPC, IBM Bangalore	Cluster Computing environment design and quotation	16 Jul 2010
Mr. Rajan	HiPC, IBM Bangalore	Cluster Computing environment design and quotation	16 Jul 2010
Dr. Kaladhar Vorugonti	Net App, USA	M. Tech. Project discussion	28 to 31 Jul 2010
Mr. Senthiraj	VIT Infotech, Bangalore	DIMS Development	12 Aug to 4 Sep 2010
Mr. Prakash Venkataraman	Oracle Corporation, Bangalore	Seminar talk	14 Aug 2010
Prof. Rathish Kumar	IIT Kanpur	Talk at IWSC 2010	16 to 17 Aug 2010
Dr. Radha Nandakumar	Director, NCSA, UIUC, USA	Discussion with Staff and Ph.D. scholars on HiPC	30 Aug to 3 Sep 2010
Prof. Ravi Mukkamala	Univ. of Maryland, USA.	Teaching Network Security and Management	25 Nov to 27 Dec 2010
Dr. Bhaskaran Sridharan	Microsoft Corp, Redmond, USA	Discussion with Staff and M.Tech. Students on OS.	13 to 21 Dec 2010
Prof. P Sadayappan	Ohio State Univ., USA	Discussion with Staff and Ph.D. scholars on HiPC	13 to 15 Dec 2010

Prof. K B Chandran	Biomedical Eng. Dept., Univ. of Iowa, USA	Discussion with staff and students for project proposal	7 Dec 2010 to 21 Jan 2011
Dr. S Sriram	Philips, Netherlands	Discussions on Speech enhancement techniques with Mr. Hanumantha Rao	22 Dec 2010 to 6 Jan 2011
Dr. Raymond Artus	Sutra Dynamics Inc., Vancouver, Canada	Discussions on Cryptography	15 to 16 Jan 2011
Mr. Bhaskar Bulusu	Reliance ADAG, Mumbai, India	Discussions on Cryptography	15 to 16 Jan 2011
Prof. Krishna Sivalingam	IIT Madras	Lectures on Wireless networks	15 to 22 Jan 2011
Prof N S Umanath	Univ. of Cincinnati, USA	Lectures in DBMS	17 Jan to 7 Feb 2011
Dr. S Sriram	Philips, Netherlands	Discussions on Speech enhancement techniques with Mr. Hanumantha Rao	5 to 26 Feb 2011
Prof. Vairamanickam	HOD, Depts of Science and Humanity, Krishnaswamy College of Engg. and Tech, Cuddalore, TN	Board of Studies for BCA	5 to 6 Feb 2011
Dr. V C V Rao	Group Coordinator, NPSC facility, C-DAC Pune	Lectures on HiPC	7 to 12 Feb 2011
Mr. Girish Suranarayana & Mr. Raveendran T V	Science Information System Ltd., Corporatic technology Development	Talk on software life	12 Feb 2011
Dr. Ramanathan Guha	Fellow, Google Inc., USA	Discussion with Staff and M.Tech. Students on search algorithms.	20 to 21 Feb 2011
Dr. Ram Chillarage	ODC Inc., USA (Ex. IBM USA)	Talk on Orthogonal defect classification; Interaction with Staff and M. Tech. Students on Software Engg.	21 to 24 Feb 2011

Workshops & Conferences Conducted

Title: "International Workshop on Scientific Computing: A Journey from Theory to Practice" **Dates**: 16 to 18 Dec 2010 **Venue**: Department of Mathematics and Computer Science, SSSIHL, Prasanthi Nilayam Campus

Theme of the Workshop:

Scientific computing (SC) is a new and growing discipline in its own right. It is concerned with the harnessing of the power of modern computers to carry out calculations relevant to science and engineering and of social relevance. By combining High Performance Computing (HPC), mathematical modeling, scientific and engineering theory, and analysis of large scale data bases of observations, SC promises to bring a new paradigm to interdisciplinary research and education. For example, drug design, materials modeling, weather forecasting, climate modeling, aerospace modeling, and a host of such application areas demand SC.

The need of the hour is to bring together various academic and professional communities, one in the modeling & analysis, the other in various application domains and finally the HPC practitioners to discuss the recent findings in their respective domains and possible ways leading to the fusion of ideas for a stronger future for solving relevant problems more realistically. IWSC2010 brought together some of the front runners from the HPC research area and experts working in methods and modeling to bring about a real contribution towards scientific research and development of applications which are of societal benefits.

List of Speakers:

Name & Designation	Title of the Talk
Prof. S V Raghavan , Chairman, National Knowledge Network, Knowledge Commission Govt. of India. Scientific Secretary to Scientific Advisor to Prime Minister, Government of India. Dept of Computer Science and Engineering, IIT Madras Chennai, India	Keynote : Scientific Computing Technology, Algorithms, Solution
Dr. Radha Nandakumar , Director, International Affiliations and Campus Relations, National Center for Supercomputing Applications, University of Illinois at Urbana-Champaign (UIUC), USA	Role: Session Chair
Prof. Somnath Ghosh , John B. Nordholt Professor of Department of Mechanical Engineering, Director, Computational Mechanics Research Laboratory (CMRL), Professor of Department of Materials Science & Engineering, Ohio State University, USA	New Trends in Simulation based Engineering (SBE) with a Focus on Multi-Scale Modeling
Prof. Steven Goetlieb , Distinguished Professor, Department of Physics, Indiana University, USA	Lattice QCD : Challenges of Scaling to Peta- and Exa flop Speeds
Dr. Sudhakar Pamidighantam , Senior Research Scientist, National Center for Supercompouting Applications (NCSA), University of Illinois at Urbana-Champaign, USA	Cyber infrastructure for automated parameterization of molecular force fields
Prof. P Sadayappan , Professor, Department of Computer Science and Engineering, Ohio State University, USA	Role: Session Chair
Prof. Keshav Pingali , W.A."Tex" Moncrief Chair of Computing in the Institute for Computational Engineering and Sciences (ICES) at UT Austin, University of Texas	Title of the talk : Parallel Programming Needs New Foundations
Prof. Viktor Prasanna , Charles Lee Powell Chair in Engineering, Director, Center for Energy Informatics, Viterbi School of Engineering (CEI), Executive Director, USC-Infosys Center for Advanced Software Technologies (CAST), Associate Director, Center for Interactive Smart Oil Field Technologies (CiSoft), Professor of Electrical Engineering, Computer Engineering Division and Professor of Computer Science, University of Southern California, USA	Parallel exact inference on multi-core and many- core processors
Dr. V C V Rao , Group Co-coordinator, National PARAM Super Computing Facility, Centre for Development of Advanced Computing (C-DAC) Pune, India	Role: Session Chair
Ms. Jaya Panvalkar , Senior Director, NVIDIA, Pune Development Centre, Pune, India	HPC and cloud computing with GPUs : A game changer
Mr. Baskar Sridharan , Principal Development Lead for Bing Performance within Microsoft's Online Services Division, USA	Performance and Reliability of Software in the Wild
Prof. Ganesh Iyer , Head, Department of Life Sciences. Ram Narain Ruia College, Matunga, Mumbai	Rice Inflorescence, Emergence, Grain filling and Mathematical Modeling
Prof. Ravi Mukammala , Department of Computer Science, Old Dominion University, USA	Role: Session Chair
Prof. S R Govindarajan , Director, Supercomputer Education and Research Centre (SERC), Indian Institute of Science (IISc), Bangalore, India	Programming Models and Languages for Heterogeneous Multi-Core Accelerator Architecture
Dr. Vipin Chaudhary , CEO, Computational Research Laboratories Limited (CRL), Pune, India	A number theoretic approach to building high performance clusters
Dr. David Kahaner , President and Founder, Asian Technology Information Program (ATIP), Tokyo, Japan	Role : Panel Discussion Member HPC Trends/Developments Lessons for India
Dr. M Krishna , Senior Vice-President, Engineering and Operations, Honeywell Technology Solutions (HTS), Bangalore	Role: Panel Discussion Member

Prof. Ashok Srinivasan , Associate Professor, Dept. of Computer Science, Florida State University, USA	Role: Session Chair
Prof. Laxmikant V Kale , Professor, Department of Computer Science, University of Illinois at Urbana-Champaign (UIUC), USA	The Migratable Objects Approach to Parallel Programming
Prof. P Sadayappan , Professor, Department of Computer Science and Engineering, Ohio State University, USA	Automatic parallelization: Alchemy or Already
Prof B V Ratishkumar , Professor, Dept. of Mathematics & Statistics, IIT Kanpur	Role: Session Chair
Prof. K B Chandran , Lowell G Battershell Professor and Chair, Department of Biomedical Engineering, Iowa State University, USA	Application of computational simulation in the human circulation - current status and opportunities
Prof. Siva Nadarajah , Professor, Department of Mechanical Engineering McGill University, Montreal, Canada	Towards Real-Time Surgical Simulation via algorithm development for Computational Hemodynamics
Dr. Eswaran Subrahmanian, CSTEP, CMU	Role of High performance computing in public policy design
Prof. Panchanathan , Chief Research Officer, Office of Knowlede Enterprise Development, Arizona State University	Closing Address : Scientific Computing for Societal Advancement
Chief Guest: Prof. K Chidananda Gowda, Former Vice- Chancellor, Kuvempu University, Karnataka	Valedictory Address: Scientific Computing

Special Achievements

REVIEWER:

Prof. V Chandrasekaran is a reviewer for:

- IET Signal Processing journal
- ICTACT Journal on Image and Video Processing, a joint venture between Govt. of India, Govt. of Tamil Nadu and CII

Dr. Pallav Baruah is a reviewer for:

- WSEAS, World Scientific and Engineering Academy and Society
- Journal of Applied mathematics and Computing, Springer
- Journal of Super Computing, Springer Publication
- Journal of Parallel Computing, Elsevier Publication
- Journal of Computational Science, Elsevier Publication
- Journal of Parasitology and Vector Biology, Academic Journals, Open Access Journals

Sai Hareesh A is a reviewer for:

Journal of Electronic Imaging published by (SPIE and IS&T)

Devi Sudheer Kumar Ch is a reviewer for:

 International conference on High Performance Computing and Communication (HPCC), to be held in Sep 2011 in Banff, Canada

KEY NOTE TALK:

Dr. Pallav Kumar Baruah delivered the following keynote addresses:

- "I/O issues and Multi Core Processors" PEMG-2009, Performance Enhancement on Multi-Core Processors & GPUs, organized by CDAC INDIA, at CDAC Bangalore, 21-24 Jun 2010
- "Hybrid Parallel Processing Platforms (CPU/GPU) Algorithms & Applications Case Study Next Generation Application Challenges on PARAM Yuva", CDAC, Pune, 25-26 Feb 2011

INVITED TALK:

Dr. Pallav Kumar Baruah delivered the following talks:

- "Existential and Qualitative study of paired and Coupled ordinary Differential equations" Seminar Talk, Department of Mathematics and Statistics, IIT Kanpur, 24 May 2011
- "Nonlinear Analysis and applications in Differential Equations", CSIR Sponsored, International workshop on Mathematical and Computational Fluid dynamics, Sathyabama University, Chennai, 13-15 Dec 2010

PROGRAM COMMITTEE MEMBER:

Dr. Pallav Kumar Baruah served as program committee member for:

- International Conference on Computational Science (ICCS), Tokyo, Japan, 2-5 Jun 2011
- International Conference on Scientific Computing (CSC'10), WORLDCOMP, Las Vegas, USA, 12-15 Jul 2010
- International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'10), WORLDCOMP, Las Vegas, USA, 12-15 Jul 2010
- International Conference on Computational Science (ICCS 2010), Amsterdam, The Netherlands, 30 May to 2 Jun 2010

Facilities Upgraded during Academic Year 2010/11

Network was upgraded to with 120 points with separate server room built with 42U Racks, HP N/W switches. A new rack server from *Supermicro* with configuration (Chassis: 1U with 1400 Watts Power supply was installed with 4 NVIDIA S2050 FERMI cards). NAS Data Server D-Link 343 with 4x2TB capacity was commissioned to protect valuable data.

One UPS system with the capacity of 10 KVA with batteries for 4 hr. backup was installed with auto changeover in the event of power supply failure. Additionally, All electrical wirings were replaced new cables with proper switchboards and MCBs.

Six PCs purchased for Research scholars.

Research Projects

Granting Agency	Principle Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
Honeywell, Bangalore	Dr. K S Sridharan Model based design and development with focus on low cost health care products for rural development	2007 to 2010	2.5 Lakhs

Status: Project closed with the delivery and augmentation of HiPC lab for with a Rack server from Super Micro with dual processors from Intel 5650 and 24 GB RAM future research works.

Granting Agency	Principle Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
UGC Minor project	Dr. Pallav K Baruah Study of a type of Singular Interface problem health care products for rural development	2007 to 2010	0.5 Lakhs

Profile: This project studies a pair of linear dynamic equations on time scale with a singular interface. This defines an interface problem with a singularity at the interface and also studies the associated IVPs, BVPs, and EVPs.

One research article was published in the Electronic journal in 2008 based on the work done on this project. Project has been completed in Mar 2010. Papers published from the work done for the project.

- "Green's Matrix for a pair of Dynamic equations with Singular Interface", paper published in the international journal, International Journal for Modern Mathematics, Vol. 4, No. 2, pp. 135-152, 2009. (with D K K Vamsi).
- "IVPs for Singular Interface Problems", paper published in the international journal, Advanced Dynamical Systems and Applications, Vol. 3, No. 2, pp. 209-227, 2008 (with D K K Vamsi).
- "Oscillation theory for a pair of dynamic equations on time scale", Electronic Journal of Differential Equations, Vol. 2008(2008), No.43, pp.1-7 (with D K K Vamsi).

Granting Agency	Principle Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
DRDO	Dr. Pallav K Baruah	16 Jun 2009 to	10.49 Lakhs
(ER & IPR)	Study of Non-linear Interface Problems	15 Jun 2012	

Profile: This project aims to study 1) the IVPs associated with nonlinear interface problems; 2) the BVPs and nonlocal BVPs associated with the nonlinear interface problems; and 3) to study the oscillation theory for nonlinear interface problems.

Brief Introduction: In literature we find a class of problems wherein two different differential equations are defined on adjacent intervals with a common point of interface. We term these problems as interface problems. If the interface problem has a well-defined boundary, we call the problem to be a regular boundary value problem (RBVP). The interface problem with a boundary that has singularity at the end points is called a singular boundary value problem (SBVP). If there is a singularity at the point of interface, we term the problem to be a singular interface problem (SIP). Solving these types of boundary value problems with singularities remains a challenge for mathematicians.

Social Relevance: We encounter these types of interface problems in the study of Acoustic Wave Guides in Ocean, One Dimensional Scattering in Quantum Theory, Optical Fiber Transmission, and Applied Elasticity. We intend to develop a detailed theory to solve these problems.

We studied these problems for the problems involving second order operators. We intend to study the same for problems involving nth order operators which is quite challenging. The work done so far is communicated to journals and also has been presented in conferences.

Following is the **list of papers** out of the work done for the project. This work is also part of the Ph.D. work by **D K K Vamsi**. He is first-author for all the publications listed below.

- "Bounds for Solutions of nonlinear Singular Interface Problems on Time scales using a Monotone iterative method", paper published in the international journal, Electronic Journal of Differential Equations, Vol. 2010, No. 109, pp. 1-9, 2010 (with D K K Vamsi).
- " "Green's Matrix for a pair of Dynamic equations with Singular Interface", paper published in the international journal, International Journal for Modern Mathematics, Vol. 4, No. 2, pp. 135-152, 2009.
- *"Existential Results for Nonlinear Sturm-Liouville Singular Interface Problems"*, accepted for publication in the International Journal of Mathematics Research.
- "Disconjugacy (D) and Non-Oscillation (N) Domains for Nonlinear Singular Interface Problems on Semi Infinite Time Scales" (Paper communicated).
- "Existence of Multiple Positive Solutions and Localization of Eigen Values for Nonlinear Sturm Liouville Problems with a Singular Interface using the Green's Matrix" (Paper communicated).

Granting Agency	Principle Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
DAE/ NBHM	Dr. Pallav K Baruah Qualitative study of solutions of Nonlinear Coupled Ordinary Differential Equations	Mar 2010 to Mar 2012	1.9 Lakhs

Following is the list of papers out of the work done for the project. This work is also part of the Ph.D. work by BVK Bharadwaj. He is first-author for all the publications listed below.

- "Asymptotically Polynomial type solutions for nonlinear coupled ordinary systems", International Conference on Recent Advances in Mathematical Sciences and Applications, Visakhapatnam, 19-22 Dec 2009 (with B V K Bharadwaj).
- "Reduction of an Operator Equation in to an Equivalent Bifurcation Equation Through Schauder's Fixed Point Theorem" (with B V K Bharadwaj).

Research Projects awaiting approval

Granting Agency	Principle Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
DRDO (ER & IPR)	Dr. S Balasubramanian An ensemble of image segmentation algorithms for medical and aerial images	28 Jun 2011 to 28 Jun 2014	41.4 Lakhs

Journal Papers

Regular Papers in Journals/Transactions:

- M Baczynski and B Jayaram, "QL-implications: Some properties and intersections", Fuzzy Sets and Systems, 161 (2), pp. 158-188, 2010.
- T Thayaparan, P Suresh, S Quin, K Venkataramaniah, S Siva Sankar Sai, K S Sridharan, "*Micro-Doppler analysis of a rotating target in synthetic aperture radar*", IET Signal Processing, Vol. 4, ISS 3, pp. 245-255, 2010.
- D K K Vamsi and Pallav Kumar Baruah, "Bounds for Solutions of nonlinear Singular Interface Problems on Time scales using a Monotone iterative method", Paper published in the Electronic Journal of Differential Equations, Vol. 2010(2010), No. 109, pp. 1-9, 2010. Indexing: Mathematical Reviews and Zentralblatt databases.
- Pallav Kumar Baruah, B V K Bhardwaj, M Venkatesulu, "*Reduction of an operator equation into an equivalent bifurcation equation through Schuafer's fixed point theorem*", J. Nonlinear Sci. Appl., Vol. 3, No. 3, pp. 164-178, 2010.
- N. Uday Kiran, M S Srinath and Ramesh Sharma, "A Level Set Method-Based Derivation Of Differential Equation For Developable Surfaces", International Electronic Journal of Geometry (IEJG), Volume 3, No. 1, pp. 11-15, (2010).
- N Uday Kiran, Ramesh Sharma and M S Srinath, "Normal Vector As An Eigenvector Of The Weingarten Matrix", International Electronic Journal of Geometry (IEJG), Volume 4, No. 1, pp. 125-128, 2011.
- Gelli MBSS Kumar and V Chandrasekaran, "A Generic Framework for Robust Image Encryption Using Multiple Chaotic Flows", International Journal of Computational Cognition (Electronic), Vol. 8, No. 3, pp. 13-21, Sep 2010.
- Y Laxmi Naidu, "Minimum Global dominating set of an Interval Graph", International Journal of Mathematical Sciences and Eng. Applications (IJMSEA), Vol. 5, No. 4, pp. 265-269, 2011.

Conference Papers

- T Aditya, P K Baruah and Ravi Mukkamala, "Space-efficient Bloom Filters for Enforcing Integrity of Outsourced Data in Cloud Environments", IEEE CLOUD 2011, The 4th International Conference on Cloud Computing, Washington DC, USA, 4-9 Jul 2011.
- T Aditya, P K Baruah and Ravi Mukkamala, "Employing Bloom Filters for Enforcing Integrity of Outsourced Database in Cloud Environments", ACM-SPRINGER, ACC-2011, International Conference on Advances in Computing and Communications, Kochi, India, 22-24 Jul 2011.
- A Telidevara, V Chandrasekaran, A Srinivasan, R Mukkamala, S Gampa, "Similarity coefficient generators for network forensics", IEEE International Workshop on Information Security and Forensics, (WIFS'10), Paper P104, Seattle, WA, USA, 12-15 Dec 2010.
- ^D Sai Hareesh A, V Chandrasekaran, "A fast and simple gradient function guided filling order prioritization for

exemplar-based color image inpainting", International Conference on Image Processing (ICIP), IEEEE, pp. 409-412, Hong Kong, China, 26-29 Sep 2010.

- Sai Hareesh A, V Chandrasekaran, "A Novel Color Image Inpainting Guided by Structural Similarity Index Measure and improved Color Angular Radial Transform", International Conference on Image Processing (ICIP), Computer Vision, and Pattern Recognition (IPCV), pp. 544-550, Las Vegas, USA, 12-15 Jul 2010.
- Sai Hareesh A, V Chandrasekaran, "Exemplar-based Color Image Inpainting Using a Simple and Effective Gradient Function", International Conference on Image Processing, Computer Vision, and Pattern Recognition (IPCV), pp. 140-145, Las Vegas, USA, 12-15 Jul 2010.
- M S Srinath, V Chandrasekaran, "Elliptic Curve Cryptography Using Mirrored Elliptic Curves Over Prime Fields", International Conference on Information and Knowledge Engineering (IKE'10), pp. 271-277, Las Vegas, USA, 12-15 Jul 2010.
- KVS Dileep, "Learning Data Dependent Composite Kernels for Robust Image Retrieval A Genetic Programming Approach", International Conference on Image Processing, Computer Vision, and Pattern Recognition (IPCV), pp. 294-299, Las Vegas, USA, 12-15 Jul 2010.
- Sai Hareesh A, "Role of neutral element in Absorption equation", pp. 111-116, International Summer School on Aggregation Operators, 11-15 Jul 2011, Benevento, Italy.
- D Hanumantha Rao Naidu, G V Prabhakara Rao, Sriram Srinivasan, "Speech enhancement using speaker dependent codebooks," 17th international Conference on Digital Signal Processing, 2011 (DSP2011), Corfu, Greece, 6-8 Jul, 2011.
- Ajith Padyana, Praveen K, P K Baruah, Rachakonda R Sarma, "*Performance Enhancement of Hausdorff Metric Based Corner Detection method using GPU*", 3rd Student Research Symposium in International Conference on High Performance Computing (HiPC2010), Goa, 2010.

Papers accepted/being published:

- "Existential and Uniqueness Results for BVPs associated with Nonlinear Singular Interface Problems on Time Scales", accepted for publication in the international journal, Advanced Dynamical Systems and Applications.
- "Existential and Uniqueness Results for IVPs associated with Nonlinear Singular Interface Problems on Time Scales" accepted for publication in the international journal, International Journal of Nonlinear Analysis and Applications.
- "Existential Results for Nonlinear Singular Interface Problems Involving Second Order Nonlinear Dynamic Equations Using Picard's Iterative Technique", accepted for publication in the international journal, The Journal of Nonlinear Analysis and Applications.
- D K K Vamsi, Pallav Kumar Baruah, "*Existential Results for Nonlinear Sturm-Liouville Singular Interface Problems*", accepted for publication in the International Journal of Mathematics Research.
- Pallav Kumar Baruah, B V K Bhardwaj, M Venkatesulu, "Existence analysis for a MBVP associated with nonlinear coupled Ordinary Differential Equation", Advances in Theoretical and Applied Mathematics, 2010.
- Pallav Kumar Baruah and B V K Bharadwaj, "Numerical Solutions for Linear Coupled Ordinary Differential Equations," Accepted for Publication in International Journal of Computational and Applied Mathematics, 2011.

Projects & Dissertations Completed

M.Tech. PROJECTS			
Name	Project Title	Supervisor	
Anuj Shukla	Study of Topology and Routing Aware Static Mapping on Large Infiniband Clusters	Dr. Pallav Kumar Baruah	
B Satish Reddy	Ontology Based Automatic Annotation of Mobile Phone Specification Web Pages	Dr. K S Sridharan	
C Bhanu Kiran	Autonomous Biped Surveillance Robot	Prof. V Chandrasekaran	
Chakilam Saketh Ram	Design and Evaluation of QoS-Aware Networks for the Smart Grid	Mr Uday Kiran and Prof Krishna Sivalingam (Ext.)	
N Gunasekaran	Medical Image Segmentation Using Spectral Clustering	Dr Raghunatha Sarma	
Kadiyala Aditya	Active Appearance Models for Face Tracking	Prof. V Chandrasekaran	
Lalith Srikanth Chintalapati	A Novel Hybrid Approach for Super Resolution of Dynamic Low Resolution Video Sequences Without Sub-Pixel Motion Estimation	Prof. V Chandrasekaran	
Magatapalli Vamsi	Ontology Based Classification of Web Pages in Consumer Electronics Domain	Dr. K S Sridharan	
Mohan Rao Gorai	Bloom Filters in Privacy Preserving Data Mining	Dr. K S Sridharan and Prof. Ravi Mukkamala (Ext.)	
Panduranga Rao Sadhu	Robust 2D Camera Motion Estimation	Prof. V Chandrasekaran	
Sampath Raghavendra Reddy	Analysis of Networks for Collection of Real –Time Data in the Smart Grid	Mr Uday Kiran and Prof Krishna Sivalingam (Ext.)	
S Ganesh	Video Stabilization using Content Preserving Warps	Prof. V Chandrasekaran	
Shah Chinmay Kanchankumar	Optimizing Communication in Load Balancing Algorithm for Quantam Monte Carlo Methods	Dr. Pallav Kumar Baruah	
Aditya Telidevara	Efficient Solution for Data Integrity in Cloud with Bloom Filters using Multicore and GPU	Dr. Pallav Kumar Baruah and Prof Ravi Mukkamala (Ext.)	
Tummalapally Praveen	A 32-bit Exokernel Operating System for x86 architecture	Dr. S Balasubramanian	
P U R Subramanyam	LLVM as Back-end for V8 JavaScript Engine	Dr. S Balasubramanian	

M.Sc. (Mathematics) DISSERTATIONS			
Name	Dissertation Title	Supervisor	
Aditya Prakash	Transform-based Lossless Embedding and Extraction of Multiple Watermarks	Prof. V Chandrasekaran	
Arka Ghosh	A Study on Hyperelliptic Curve-based Cryptography	Prof. V Chandrasekaran	
A Vijay Sai	Optimization Techniques and Its Application to Energy Management System	Dr. K S Sridharan	
G Badri Mahesh	A Study of Effectiveness of Google's PageRank Algorithm on Academic Domains	Dr. S Balasubramanian	
Behara V Nagendra Prasad	Understanding WiMax and Resource Allocation Algorithms	Dr. R Raghunatha Sarma	
Kali Uday B	SAI-Experts System for Diagnosis of Pest Diseases in Rice and Wheat, India	Dr. K S Sridharan	

Dinesh Majeti	A Study on Random Walks and Its Applications to Image Segmentation	Dr. S Balasubramanian	
D Satyanvesh	Study of Algorithms of Multiple Sequence Alignment	Dr. K S Sridharan	
Gooty Dada Khalandhar	Multi-point Elliptic Curve Cryptography	Prof. V Chandrasekaran	
Krishna Prasanth R	Data Integrity in Cloud Computing	Dr. Pallav Kumar Baruah	
K Sai Kiran	Wave Equation using Finite Difference Method on GPU	Dr. Pallav Kumar Baruah	
Mahendrakar Srinivasa Rao	Efficient Classification of Web Documents using a Graph Model	Mr. Sai Shyam Sarma	
P R Neelakandan	Applications of Graph-based Technique in Web Clustering	Mr. Sai Shyam Sarma	
Nilesh Patil	Option Pricing using Finite Difference Method on GPU	Dr. Pallav Kumar Baruah	
Nithilan M K	Spectral Clustering using Proximity Matrices	Dr. R Raghunatha Sarma	
Paidisetty Kranthi Kumar	Study of Graph-Theoretic Approaches to Web page Segmentation.	Mr. Sai Shyam	
Sairam K M Menon	Coding Theory and Its applications to Audio Coding	Prof. V Chandrasekaran	
R Sai Ram	Local Approximation of Page Rank	Dr. S Balasubramanian	
Sampath Kumar NVSSP	Topic Sensitive Page Rank	Dr. S Balasubramanian	
Sanjog Arvind Kulkarni	Isolated Word Recognition using Vector Techniques	Dr. K S Sridharan	
Sankar Vinayak R K	Spectral Clustering using Laplacian Matrices	Dr. R Raghunatha Sarma	
Shivam Nehma	Study of Single Channel Speech Enhancement using Adaptive Filters	Dr. K S Sridharan	
K T N Varma	Round Robin Algorithms and Its Variants for Packet Scheduling	Dr. R Raghunatha Sarma	
V Sai Ram	Study and Implementation of Graph Partitioning Algorithms	Dr. Pallav Kumar Baruah	

Appendix B Department of Biosciences

Visiting Faculty

Name	Designation	Course Covered	Duration
Prof. Manu Jatana	Dept. of Microbiology, Shoolini University	Clinical Immunology	12 Jun to 8 Aug 2010
Prof. George Ordal	Dept. of Biochemistry, University of Illinois, Illinois, USA.	Enzymes and Cofactors	Nov to Dec 2010
Prof. Venkata Nerala	Environment Canada, Toronto, Canada	Instrumentation, Environmental Biotechnology	Dec 2010
Prof. Raj Raghupathy	Kuwait University, Kuwait	Immunological techniques, Transplantation Immunoglobulin genes	Dec 2010
Prof. Muttucumaru Sivakumar	University of Wollongong, Australia	Biosafety, Natural Resources, Conventional Fuels, Modern Fuels, Air Pollution, Water pollution and treatment, Bioremediation.	7 Dec 2010
Dr. V Ramakrishna	BITS, Hyderabad	Protein structures, structural Informatics	19 to 24 Dec 2010
Prof. V Vijayalakshmi	Department of Bio- chemistry, NIN, Hyderabad	Expert advice on research	23 to 24 Dec 2010
Prof. T N Lakhanpal	Dept. of Biosciences, Emeritus Professor, HP University, HP	Microbial Biotechnology	9 to 30 Jan 2011
Dr. Seeta Laxmanan	Santa Clara, CA, USA	BIOSCI 1001 (100%), BIOPRAC 1005 (100%), BIOSCI 401 (25%), BIOPRAC 403 (100%), BIOSCI 604 (100%), BIOPRAC 608 (100%)	Summer Semester (whole)
Prof. T N Lakhanpal	Dept. of Biosciences, Emeritus Professor, HP University, HP	BIOSCI 1003 (100%), BIOPRAC 1006 (100%)	For two weeks
Prof. V Vijayalakshmi	Department of Biochemistry, NIN, Hyderabad	BIOSCI 801 (Chapter 1), BIOSCI 802 (Chapter 3), BIOSCI 1001 (Chapter 7)	For two days
Dr. Ganesh lyer	Reader, Ramnarain Ruia College, Mumbai	Conducted practicals workshop for Experiments in Biochemistry and Biotechnology	5 hours a day for 5 days

Workshops & Conferences Conducted

Title: "New Frontiers in Diabetes Research" Dates: 13 to 14 August 2010 Venue: Multimedia Centre, SSSIHL, Prasanthi Nilayam Campus Keynote Address: Dr. V. Mohan, MDRF, Chennai

Theme of the Conference:

The Department of Biosciences, SSSIHL has a memorandum of understanding (MOU) with Madras Diabetes Research Foundation (MDRF), Chennai. Organizing a conference once every year is one of the aspects of the agreement.

This year, the topics related to molecular epidemiology of diabetes were given emphasis as they are of interest to the students of biology and also medical endocrinologists. Indians with diabetes have peculiar characteristics of their own and are designated as Asian Indian Phenotype. This includes a low body mass index, 2-3 decades earlier onset of diabetes compared to Europeans and stronger heritability factors (Dr. V Mohan). India, represented by a large population having diversified food habits, work culture and pronounced endemicity, the gene polymorphism viz., PPAR γ , glycoprotein PC-1, insulin receptor substrate-2, TCF7L2, adiponectin gene, etc. as the causative factors in the onset of diabetes and possible biomarkers for the disease and therapeutic measures were discussed at length at the conference.

PROGRAMME

DAY 1: Fri 13 Aug 2010

Inaugural Session		
Name & Designation	Title of the Talk	
Prof. S Krupanidhi, SSSIHL	Welcome Address	
Prof. Shashidhara Prasad, SSSIHL	Inaugural Address	
Dr. V Mohan, MDRF, Chennai	Keynote Address: Diabetes Epidemic in India – Why and what can be done?	
Mr. P Sujith Kumar	Vote of Thanks	

Technical Session – 1 Chairpersons: Dr. Sanjeevi, Dr. R J Jha		
Name & Designation	Title of the Talk	
Dr. Vijay Viswanathan, M.V. Hospital for Diabetics and Diabetics Research	Genetic Basis of Diabetic Nephropathy	
Dr. Sanjeevi, Karolinska Institutet, Stockholm	Prediction strategies and new methods of screening in Autoimmune diabetes	
Dr. Radha Venkatesan, MDRF, Chennai	Investigation of Genetics of Type 2 diabetes	
Dr. Deven Parmer, Wockhardt, Mumbai	Can India be a global player in Biopharmaceutical in the next 10 years?	

Technical Session – 2 Chairpersons: Dr. Pradeep Satyanarayana, Mr. Vinod Dua		
Name & Designation	Title of the Talk	
Mr. Ashok K Ayappa, MDRF, Chennai (SSSIHL Alumni)	Association of Hepatic liapase (HL) and Cholsteryl Ester Transfer Protein (CETP) gene variants with dyslipdemia among South Indian non-diabetic subjects	
Dr. (Mrs.) B Andallu, SSSIHL	Protective role of mulberry (Morus indica L.) leaves against oxidative stress and cataract in STZ- diabetic rats	
	Video show: Swami's Programme	

Technical Session – 3 Chairpersons: Dr. Anil Mavila, Dr. S Krupanidhi		
Name & Designation	Title of the Talk	
Dr. M Balasubramanyam, MDRF, Chennai	Malfunction of micro RNAs in diabetes	
Dr. Anil Mavila, Gurgaon	Emerging technologies for lifestyle disorder diagnosis: Application of automated and high throughput Antibody Arrays for large scale population profiling	
Dr. Pradeep Satyanarayana, USA	Mixed lineage kinase 3: From JNK pathway activation to diabetes	

DAY 2: Sat 14 Aug 2010

Morning Session		
Name & Designation Title of the Talk		
Sri. K Anil Kumar, SSSIHL	Human Body is the Temple of God	

Technical Session – 4 Chairpersons: Dr. Vijayalakshmi, Prof. S S Rajan		
Name & Designation	Title of the Talk	
Dr. C Santharam, Loyola College, Chennai	Applications of statistics in health sciences	
Dr. Rashmi Kapoor, SSSIHL, Anantapur Campus	Development of therapeutic foods and validation of health benefits in diabetics mellitus	
Mr. S Finny Monickaraj, MDRF, Chennai	Novel link between oxidative stress-induced accelerated senescence and insulin resistance in adipocytes	
Students of Home Science Dept., SSSIHL	Presentations of their M.Phil. and Ph.D. works	
Mr. P Krishnanand, SSSIHL	Sumo-4 Met 55 Val (ATG-GTC) genotyping of diabetic retinopathy subjects	
Ms. Ramya Kandaswamy, MDRF, Chennai	Genetics of obesity: role of FTO gene	
Mr. S Sanjeev, SSSIHL	Oxidative stress and related protein carbonylation in diabetes	

Technical Session – 5 Chairpersons: Dr. M Balasubramanyam, Dr. Rashmi Kapoor		
Name & Designation	Title of the Talk	
Dr. V Vijayalakshmi, NIN, Hyderabad	Role of oxidative stress in Pancreatic cell dysfunction – beneficial effects of antioxidants	
Dr. K Anil Kumar, SSSIHL	Cocrystal of metformin as improved metformin combo with and additional activity of mild anti-hypertension	
Dr. C Sudhakaran, MDRF, Chennai	Pharmacogenomics – Translating technology into clinical practice	
Prof. S S Rajan, SSSIHL	Crystallographic studies on human insulin – an insight into insulin activity and conformational transition	
Dr. Sarojini Prahlad, Chennai	Energy healing for a sweet life	
Ms. Raji Lenin, MDRF, Chennai	Molecular intricacies of glucolipotoxicity – induced endoplasmic reticulum (ER) stress in pancreatic β-cells	
	Concluding Session and Vote of Thanks	

Title: "National Science Day" (Theme: Chemistry in our Lives) Date: 28 February 2011 Venue: Multimedia Centre, SSSIHL, Prasanthi Nilayam Campus, Keynote Address: Prof. J. Shashidhara Prasad, Vice-Chancellor, SSSIHL

PROGRAMME

Name & Designation	Title of the Talk
Prof. S Krupanidhi, SSSIHL, Dean, Faculty of Sciences	Welcome address
Prof. J Shashidhara Prasad, SSSIHL, Vice-Chancellor, SSSIHL	Keynote address
Prof. P C Sood (Retd.), Dept. of Physics, BHU.	Nuclear sciences beyond PNE & CNE "ASHTA-BHUJA SHAKTI"
Prof. S S Rajan, SSSIHL, UGC Emeritus professor	Crystallography and Drug Design
Prof. S Krupanidhi, Head, Dept. of Biosciences, SSSIHL	Child success is beyond genetics
Dr. Muthu Kumar, Dept. of Physics, SSSIHL	Raman Effect
Dr. Rajesh Babu, Dept. of Chemistry, SSSIHL	Mushrooms - what is so magical?
Dr. Jagdish Chandra, Dept. of Physics, SSSIHL	Journey of Physics from Lab to Home
Dr. Pradeep, Post-Doctoral Fellow, Dept. of Biosciences, SSSIHL	Vote of Thanks

Special Achievements

Mr. Sai Malleswar V N R has received a Special Prize for the **Best Paper presentation** at the International Conference on Global Environment and its Sustainability: Implications and strategies, R K M Vivekananda College, Chennai held on 7th Nov 2010 for his paper "*Biomarker for environmental stress induced aestivation*".

Name of the Candidate	CSIR JRF/NET Rank	GATE RANK
Sri Sanjeev Sharma	2 nd	49 th
Sri Krishnanand	143 rd	1100 th
Sri Vijaya Sai	-	289 th
Sri T N Prashanth	-	2066 th
Miss S Anusha	-	274

Prof. S Krupanidhi delivered a talk entitled, "*Does money make molecule or molecule makes money?*" at the DST inspire programme, Madras Diabetic Research Foundation (MDRF), Chennai, 31 Dec 2010.

Research Projects

Granting Agency	Coordinator & Title of the Project	Time Period	Total (Rs.) Allocation
UGC : SAP DRS Level II	Prof. S Krupanidhi 1) Plant cell, tissue culture and its applications and, 2) Immunogenetics	1 Apr 2010 to 31 Mar 2015	71.85 Lakhs

Status:

1) Plant cell, tissue culture and its applications:

Tissue culture studies in *Agle marmalos*: The explants of *Agle* i.e., leaf floral parts, nodal explants, stem bits were used to study with MS medium supplemented with phytohormones. Nodal segments proved to be the best for both callogenesis and morphogenesis. In the establishment stage, MS medium with individual treatments of Ad, AS, BAP, Kn, IBA, DPU and combinations of Kn + NAA, Ad + NAA, BNAP + NOA, BAP + NAA, Ad + IBA, AS + IBA were found to be good. In the multiplication stage, the combination of BAP + NOA, BAP + NAA, Kn + NAA resulted in multiple shoot formation and high frequency of shoots from callus obtained from different kinds of explant material. For elongation, Kn + NAA, Ad + NAA provided good results. For rooting purpose half-strength MS medium with IBA found to be good in obtaining plant-lets with roots.

Morphogenetic studies in *Adathoda vasica*: The nodal explants with MS medium fortified with IAA, NAA, IBA, 2-4 D, BAP, Ad and Kn were studied. Of these NAA, BAP treatments showed better response for establishments. Kn showed significant morphogenetic response in establishment and proliferation of shoots. The combinations of NAA + BAP, BAP + Kn, BAP + NAA showed better results. BAP + NAA produced multiple shoots. The combination of NAA + Kn revealed significant elongation of plant-lets. *In vitro* rooting was observed in different concentrations of IBA. The callogenesis was observed in 2-4 D, Kn, NAA, BAP treatments.

2) Immunogenetics

The population is not always homogeneous in relation to the functioning of genes. Therefore, the presence of allogenicity is a universal phenomenon. A profound variability is noticed among the members of the human population with reference to the resistance against infections and late-onset of diseases. A few sets of genes which come under the domain of immune function namely KIRs (Killer immunoglobulin-like receptor genes), TLRs (Toll-like receptor genes) and HLA (Human leukocyte antigens) have been chosen in the present study. The genotyping is the focus in the present SAP project wherein the distribution of aforementioned genes is taken up in the ethenic groups of Puttaparthi and among the individuals suffering from PreEclampsia, Type-II diabetes and Rheumatoid arthritis. The primers for the identified genes have been designed. Designing the consent forms and approval from Institutional Ethics Committee has been obtained. The protocols for the collection of the human blood samples and decoding procedure for the same have been standardized. The PCR protocols for the identified immune related genes viz.., KIR-2DL1, 2DL2, 2DL3, 2DL4, 2DL5, 3DL1, 3DL2, 3DS1, 2DS1, 2DS2, 2DS3, 2DS4, 2DS5, 2DP1, 3DP1; TLR 1-9 with SNPs, HLA I C1 & 2 are in the process of standardization.

Granting Agency	Coordinator & Title of the Project	Time Period	Total (Rs.) Allocation
DST FIST	Prof. S Krupanidhi To Strengthen the Postgraduate teaching facility in the department	1 Apr 2008 to 31 Mar 2013	33 Lakhs

Status:

GE Healthcare Akta Prime Plus Fast Protein Liquid Chromatography system equipped with calibrated HiPrep 16/60 Sephacryl S-300 HR Gel Filtration column is used for purification of Hemocyanin from an endemic gastropod. It is also used to isolate and determine Molecular weight of subunits of this multimeric protein under dissociating pH conditions. Tryptic fragments of the protein were also isolated and evaluated under Gel Filtration Chromatography mode.

The Western Blot analysis of the HSP-40 stress related protein of both constitutive and inducible fractions were analysed in the homogenates of hepatopancreas of the amphibious snail, Pila globosa in its normal and aestivated conditions and deduced that the inherent compensatory mechanisms of the snail promote to induce the synthesis of anti-stress protein in the aestivated condition.

Shimadzu IRAffinity Fourier Transform Infrared Spectrophotometer is used to characterize natural products, synthesized chemicals and nanoparticles. Proteoglycans isolated from fungi and Hemocyanin isolated from freshwater gastropods are studied using FTIR. Curcumin derivatives and pharmaceutical co-crystals are also evaluated. Carbon nano tubes, metal nano particles and polymer/pharmaceutical nano dispersions are studied and characterized using the instrument. This equipment procured through DST FIST viz., FTIR is extensively being used by the students and scholars of the Departments of Physics, Chemistry and Biosciences.

Granting Agency	Coordinator & Title of the Project	Time Period	Total (Rs.) Allocation
DST BIF	Prof. S Krupanidhi Creation of Bioinformatics net	1 Apr 2008 to 2012	20 Lakhs

Status:

The Bioinformatics Infrastructural Facility supported by Department of Biotechnology, Govt. of India is supplementing the research and teaching activities of the Department of Biosciences and also a few other science departments of Prasanthi Nilayam Campus. The BIF facility is enriched with Exome Horizon software with 25 licenses, wherein there are workstations for phylogenetics, structural analysis and Drug-ligand interactions. The gene annotation of Glucokinase using UCSC genome browser and the structural predictions of Maltoporin using ExPasy proteomic server are possible.

Journal Papers

- Sai Malleswar V N R and S Krupanidhi, "Biomarker for environmental stress induced aestivation", Indian Journal of Science and Technology, 4(3), pp. 336-338, 2011.
- S Krupanidhi, "Lead article: Childhood neglect and consequent epigenetic distortions and impairment in social adaptability among children", Natl. Acad Sci.Lett, 33, (9&10) pp. 263-270, 2010.
- A S Vishwanathan and R Basavaraju, "*A review on Vitex negundo L. A medicinally important plant*", eJournal of Biological Sciences, 3(1), pp. 30-42, 2010.
- Pradhan, A S Vishwanathan and R Basavaraju, "Effects of nutrients on in vitro culture of Morus alba L. (White mulberry)" Bioresearch Bulletin, 1(1), pp. 19-23, 2010.
- A S Vishwanathan, "*Biodiversity of soil fungi: Why, how and where?*" Bioresearch Bulletin, 1(4), pp. 201-207, 2011.
- R Basavaraju, "Plant Tissue Culture Agriculture and health of Man", Indian Journal of Science and Technology, pp. 333-335, 4: 2011.
- Chandu Vijay, and P Chary, "Ecomorphometric analysis of Garcinia cambogia (Gaertn.) Desr.(Clusiaceae) in relationship to (-) Hydroxycitric acid content in the fruit rinds".

Conference Papers

- Sai Malleswar V N R and S Krupanidhi, "Biomarker for environmental stress induced aestivation", International Conference on Global Environment and its Sustainability: Implications and strategies, R K M Vivekananda College, Chennai, 7 Nov 2010.
- R Basavaraju, "*Plant Tissue culture Agriculture and health of Man*", International Conference on Global Environment and its Sustainability: Implications and strategies, R K M Vivekananda College, Chennai, 7 Nov 2010.
- Vennel Raj and Basavaraju R, "Plant Tissue culture Biodiversity Studies of Aegle marmelos (Linn.) Correa in Sri Sathya Sai Taluk of Ananthapur District", International Conference on Global Environment and its Sustainability: Implications and strategies, R K M Vivekananda College, Chennai, 7 Nov 2010.
- Vennel Raj, Lawa Hari Nepal, Sai Murali R S and Basavaraju R, "The Study of Callogenesis and Morphogenesis in Phyllanthus niruri Linn. And Stevia rebaudiana (Bertoni) Hems. L", International Conference on Global Environment and its Sustainability: Implications and strategies, R K M Vivekananda College, Chennai, 7 Nov 2010.
- Sai Murali R S, Krishna Bhatt K And Basavaraju R, "In Vitro Morphogenetic studies on Adhatoda vasica Nees", International Conference on Global Environment and its Sustainability: Implications and strategies, R K M Vivekananda College, Chennai, 7 Nov 2010.

- Prashanth Ghanta and Basavaraju R, "The Antimicrobial activity of Medicinal plants Terminalia catappa L. And Phyllanthus emblica L", International Conference on Global Environment and its Sustainability: Implications and strategies, R K M Vivekananda College, Chennai, 7 Nov 2010.
- Vennel Raj and R Basavaraju, "Genetic diversity studies of Aegle marmelos (Linn.) Correa in Sri Sathya Sai Taluk of Ananthapur District", 98th Indian Science Congress, Chennai, 3-7 Jan 2011.
- Chandu Vijay and P Chary, "Ecomorphometric markers reflect variations in (-) HCA content from the fruit rinds of Garcinia cambogia", Poster presented during 98th Indian Science Congress, SRM University, Chennai, 2011.
- Robin Sharma and Vijayakumar B S, "Diversity of the Trichomaceae in the Vengalammacherevu forest area of Puttaparthi mandal, Anantapur dist., AP", Abstracts of the National conference on recent advances in Mycological research, pp. 29, and 37th annual meeting on the Mycological Society of India, Centre for advanced studies in Botany, University of Madras, Guindy campus, Chennai, 2011.
- By Miss G Supraja, "Antimicrobiosis of Brassica alba (white mustard) against phyllo- and rhizosphere trapped isolates", National conference on "Advances in environmental research: an interdisciplinary approach", 11-12 Mar 2011.

Books Published:

 A S Vishwanathan; "Diversity of Hyphomycetes in deciduous forest soils: A survey of local soil Hyphomycete mycoflora of the Puttaparthi mandal, Andhra Pradesh, India", LAP Lambert Academic Publishing, Saarbrucken, Germany, 2010.

Chapters contributed for Books:

- U Siva Ramakrishna and B S Vijayakumar, "Aeromycological Research in the New Millennium", Natural Resource Conservation and Environment Management, (Eds): Sri. Bhagirathi Behera and Dr. Siba Prasada Panda, APH publishing corporation, pp. 274-82, New Delhi, 2010.
- Robin Sharma and B S Vijayakumar, "*Studies on fungal succession and distribution*" Natural Resource Conservation and Environment Management. (Eds): Sri. Bhagirathi Behera and Dr. Siba Prasada Panda, APH publishing corporation, pp. 283-94, New Delhi, 2010.

Projects & Dissertations Completed

M.Sc. (Biosciences) PROJECTS			
Name	Project Title	Supervisor	
Krishnanand	Role of SUMO4 M55V polymorphism in pre disposing young diabetic patients towards diabetic retinopathy	Prof. S Krupanidhi	
T N Prasanth	Biodegradation of Catalyst blended polypropylene and high density polyethylene(HDPE) using Aspergillus species	Dr. B S Vijaykumar	
Sanjeev Sharma Mahadeva	A study of Oxidative stress in Type II diabetes using Plasma protein carbonyl as a biomarker	Prof. S Krupanidhi	
Vijaya Sai	Bioconversion of Phenols to Quinones by immobilized Hemocyanin of Pila globosa	Prof. S Krupanidhi	
S V Ramakanth	Optimization of Microbial fuel cell	Prof. S Krupanidhi	
Sai Arun Batra	Multiplex PCR for simultaneous detection of Brucella species, Bacillus anthracis, Yersinia pestis and Burkholderia pseudomallei	Prof. S Krupanidhi	

Appendix C Department of Physics

Visiting Faculty

Name	Designation	Talk given	Course Covered	Duration
Prof A M Rao	Department of Physics and Astronomy, Clemson, SC, USA	Current trends in Nano Science	NANO 801& NANO 1003	10 to 18 June and 27 Nov to 4 Dec 2010
Prof. Ramesh Sharma	Department of Mathematics West Haven, CT, USA	Tensor Analysis	PHY 702	14 Jun to 7 Aug 2010
Ramarao Inguva	President/CEO East West Enterprises Inc., Huntsville, AL, USA	Digital communications and Project work for M.Sc and M.Tech (AO) classes	MTO 1303 & Phy1005	1 to 19 Feb 2010
Prof. Valluri Sriram	Dept. of Physics & Astronomy, University of Western Ontario, Ontario, Canada	Advanced Quantum Mechanincs	PHY 901	23 Jul to 11 Aug 2010
Dr. (Mrs.) Tanu Rattan	Indian Institute of Science (IISc), Bangalore	Nanoscience and Nanotechnology papers	NANO 701 NANO 801 NANO 902 NANO 1002 NANO LABS	50 days spanning across the academic year
Mr Pavan Oruganti	San Jose, CA, USA	Optical Networking	MTO 1302 & MTO 1303	27 Jul to 3 Aug 2010
Prof. K N Sharma	Chingamakha Kshetri Leikai, Imphal, West District, Manipur	Physics & Technology of Thin films	NANO 902	15 Jul to 15 Sep 2010
Prof. Thayaparan	Kanata, Ontario, Canada	Radar Signal Processing	MTO 1201	12 to 17 Aug 2010
Prof. Krishna M Sivalingam	Department of Computer Science and Engineering, IIT Madras, Chennai	Broadband Communication and Information Systems	MTO 113	2 to 21 July 2010
Dr. Narinder Ailawadi	AT&T Bell Labs, New Jersey, USA	Digital communications	MTO 1201	16 Feb to 8 Mar 2010
Dr. Neeleshwar S	Asst. Professor, Dept of Physics Guru Gobind Singh Indraprastha University (GGSIPU), New Delhi	Nano material characterization	NANO 901	4 to 11 Jul 2010
Dr. S Balasubramanian	Lucent Technologies, Holmdel, NJ, USA	Wireless communication	MTO1104	29 Aug to 18 Sep 2010
Dr. Jayasimha Prasad	San Jose, CA, USA	Semi Conductor Physics and Nano Electronics	NANO 903 & PHY 902	2 to 7 Aug 2010
Dr. Chaya Prasad	San Jose, CA, USA	Nano Biotechnology	NANO 704	2 to 7 Aug 2010
Dr. B R Prasad	Indian Institute of Astrophysics, Koramangala, Bangalore	Nano Photonics	PHY 904	Mar 2010
Dr. Praveen Ramamurthy	Material Science Engineering, IISc, Bangalore	Organic Solar cells	Nanoscience students	16 Jul 2010

Prof. D V G L N Rao	Professor, Dept. of Physics, Univ. of Massachusetts, Boston, MA, USA	Bio Photonics	Research Topics	17 to 20 Jan 2010
Dr. Siva Kumar	Dept. of Computer & Engineering, J.N.T.U.A College of Engineering, Pulivendula, AP	JAVA programming	MTO 1105	June 2010
Dr. Cheruvu Murthy	New York, USA	Simulations in Nanoscience	NANO 804	28 Nov to 4 Dec 2010
Prof. Sundaresan	Emeritus Professor, Dept. of Physics, Carleton Univ., Ottawa, Canada	Statistical Physics	PHY 901	29 Nov 2010 to 8 Mar 2011
Mr. Gaurav Bhakshi	Goldman Sachs Service Pvt. Ltd., Bangalore	JAVA Programming	MTO 1205	Feb to Mar 2011
P C Sood	Visiting Faculty	Properties of Nuclear	Nuclear Physics	-
D N Sahoo	Visiting Faculty	Latex	Software Lab	-
D N Sahoo	Visiting Faculty	Introduction to Quantum Mechanics	Quantum Mechanics	-

Journal Papers

- V S Muthukumar, Jason Reppert, Suchand Sandeep, S Sivaramakrishnan, Reji Philip, Narayanan Kuthirummal, Apparao M Rao, S Siva Sankara Sai and K Venkataramaniah,"*Optical limiting studies on CdS nanowires*", Optics Communications, doi:10.1016/j.optcom.2010.06.020, 2010.
- Ramadurai Gowrishankar, Manish Kumar, Vinay Menon, Sai Mangala Divi, M Saravanan, P Magudapathy, B K Panigrahi, KGM Nair and KVenkataramaniah "*Trace Element Studies on Tinospora cordifolia (Menispermaceae), Ocimum sanctum (Lamiaceae), Moringa oleifera (Moringaceae), and Phyllanthus niruri (Euphorbiaceae) Using PIXE*" Biological Trace Elemental Research 133: pp. 357–363, 2010.
- Jagadish Chandra S and S Sivasankara Sai, "Population saturation leading to Optical Limiting for two beam illumination in Bacteriorhodopsin films using a Four-state model." International Journal of Physical Sciences. Vol 5(5), pp. 432-438, 2010.
- T Thayaparan, P Suresh, S Qian, K Venkataramaniah, S Siva Sankara Sai and K S Sridharan, "*Micro-Doppler analysis of a rotating target in synthetic aperture radar*" IET Signal Process (www.ietdl.org), Vol. 4, Iss. 3, pp. 245-255, 2010.
- Ee Jin Teo1, Andrew A Bettiol, Boqian Xiong, Mark B H Breese and Prashant T Shuvan "An all-silicon, single-mode Bragg cladding rib waveguide" Optics Express 18, 8 (2010) 8816 8823 doi:10.1364/OE.18.008816 (2009 ISI IF: 3.278)
- Ramakrishna P, Benoy Anand, J Palmer West, Reji Philip, S Siva Sankara Sai, Jian He, Malcolm Skove, Shiou-Jyh Hwu, Sumanta Tewari and Apparao M Rao, "Evidence for surface states in pristine and Co-doped ZnO nanostructure: magnetization and nonlinear optical studies" Nanaotechnology 22, 095703, 2011.
- P C Sood, M Sainath, R Gowrishankar and K Vijay Sai "Characterisation of isomers in the neutron-rich odd-odd nucleus 156Pm" Physical Review C83 (2011) 027303.
- S Deepa, K Vijay Sai, R Gowrishankar and K Venkataramaniah, "Precision Electron-Gamma Spectroscopic Measurements in the Decay of 177Lu" Applied Radiation and Isotopes 69, pp. 869 – 874, 2011.
- P C Sood, K Vijay Sai, R Gowrishankar and M Sainath, "Structure of the yrast band in the odd-odd deformed nucleus 156Pm" Physical Review C83, 057302, 2011.

Conference Papers

- Andrew A Bettiol, Ee Jin Teo, Shuvan Prashant, Xiong Boqian and M B H Breese, "Fabrication of porous Silicon channel waveguides with multilayer Bragg claddind" Proc. of SPIE Vol. 7606, 76060K – (1-6) doi: 10.1117/12.841692.
- K Vijay Sai, S Deepa, R Gowrishankar, K Venkataramaniah, "Precision Experimental ICC measurements of Pure Transitions for comparison with Theories" International Conf. on Nuclear Data for Science and Technology – ND 2010, Jeju Island, Korea, 26-30 April, 2010.
- K Vijay Sai, S Shankar Subramanian, S Deepa, R Gowrishankar, M Sainath and K Venkataramaniah, "*Precision Internal Conversion Coefficient measurements in 192Pt following 192Ir β—decay*", Proceedings of DAE BRNS Symposium on Nuclear Physics, 55 (2010) 120.
- K Madhusudan Rao, K Vijay Sai, R Gowrishankar, S Deepa, M Sainath and K Venkataramaniah, "*Precision Electron-Gamma Spectroscopic measurements in 166Er*", Proceedings of DAE BRNS Symposium on Nuclear Physics, 55 (2010) 122.
- K Vijay Sai, R Gowrishankar and P C Sood, "Intrinsic Structures in highly n-deficient odd-odd nucleus 158Ho", Proceedings of DAE – BRNS Symposium on Nuclear Physics, 55 (2010) 118.
- R Gowrishankar, K Vijay Sai and P C Sood, "Forbidden, but Fast, β-transitions in lighter rare-earth nuclei", Proceedings of DAE – BRNS Symposium on Nuclear Physics, 55 (2010) 116.

M.Sc. (Physics) PROJECTS			
Name	Project Title	Supervisor	
Sameer Kumar	Automation of the Ketheley source meter and nanvoltmeter for the study of electrical properties of metals:band gap (four probe method), sheet resistivity	Dr. S Siva Sankara Sai	
G V Siva Sree	Fabrication and thickness measurements of polymer thin films	Dr. R Gowrishankar	
K Nikhilesh	Occurrence of Long Lived Isomers in Transuranic Actinides	Prof. P C Sood	
Mahesh R	Two-slit quantum interference	Prof. D N Sahoo	
M N V Vinay Pramod	Temporal dynamics of ultra-shot pulses in highly nonlinear photonic crystal fiber	Dr. R Gowrishankar	
P L Sairam	Continuous wave Z-scan studies on thin films	Dr. Jagdish Chandra	
Rajeev Kumar	Surface plasmon resonance and surface plasmon coupled emission: Novel sprectroscopic tools	Dr. S Siva Sankara Sai	
Sowmndran P	Automation of Zscan experiment and study of nonlinear optical properties of organic chromophores	Dr. S Siva Sankara Sai	
Shankar Subramanian	Precision measurements of internal conversion coefficients in the decay of Ir 192	Prof. K Venkataramaniah	
Sumukh Nandan R	Analysis of medical images through Fourier optics techniques	Dr. S Siva Sankara Sai	
T Sai Ram	Characterization of Microbial fuel cell using electrical impedance spectroscopy	Dr. S Siva Sankara Sai	

Projects & Dissertations Completed

M.Sc. (Nanoscience & Nanotechnology) PROJECTS			
Name	Project Title	Supervisor	
Avinash B	"Mercapto-Succinic acid capped Silver Nanoparticles : Synthesis, Characterization & their antibacterial application	Prof. K Venkataramaniah	
Avinash Ch	Synthesis of Nano-size Gamma Alumina and its effects on Fluoride Remova	Dr. Tanu Rattan	
Girish Salian	Solution Combustion Synthesis of Vanadium Pentoxide & its effect of doping on its semiconducting properties	Dr. Tanu Rattan	
Pradyumna Mulpur	Isolation and Characterization of Novel Selenide Quantum dots of Fe, Co, Cu displaying Short Range Fluorescence	Prof. K Venkataramaniah	
Nishad Mishra	Automation of Keithley 2400 Sourcemeter and Keithley 2182 Nanovoltmeter for Four Probe and IV measurments	Prof. K Venkataramaniah	
Prem Chandran	Processing of Solution Combustion Derived Nano-Mg Al2O3 Spinels for Optical Transparency	Dr. Tanu Rattan	
Sai Kiran A	Synthesis and Spectroscopic characterization of Metal chalcogenides	Dr. Tanu Rattan	
Sandeep Patnaik	Dissolution Enhancement in Nanodispersions of Piroxicam with Povidone and Soluplus	Prof. K Venkataramaniah	

Appendix D Department of Chemistry

Visiting Faculty

Name	Designation	Course Covered/ Talk given	Duration
Dr. C R Gopalakrishnan	Department of Environmental Toxicology, Texas Tech University, USA	Chem 702 Analytical Instrumentation	2 to 12 Jun 2010
Prof. G C Pradhan	Utkal University, Bhubaneshwar	Chem 701 & Chem 703 Molecular symmetry & group theory, Electronic spectra oft transition Metal complexes, Application of quantum mechanics to diatomic molecules	3 to 15 Jun 2010
Prof. V Chandrasekhar	Indian Institute of Technology, Kanpur	Chem 703 Molecular magnets	8 to 10 July 2010
Prof. Somnath Mitra	Department of Environmental Chemistry, NJIT, USA	Chem 702 Analytical Instrumentation & interaction with research scholars on collaboration basis	5 to 20 July 2010
Prof. P Natarajan	Department of Chemistry, Madras University	Chem 703 Inorganic photochemistry	25 Aug to 2 Sep 2010
Dr. Kanikanti Venkata Ranga Rao	Bayer Health Care, Germany	Chem 1003 Drug discovery, Pharmacokinetics	25 Nov to 20 Dec 2012
Prof. R Venkateswarlu	Department of Chemistry, Former Professor, Andhra University	Chem 1005(ii) Organic Synthesis of Natural Products	4 to 10 Nov 2010
Dr. Sanga Kuga Balasoorier	Dept. of Chemistry, North Eastern University, Boston, USA	Chem 704 & Chem 804 Stereochemistry and Reactions routed through radical intermediates	2 to 17 Sep 2010 and 24 Feb to 9 Mar 2011
Dr. R K M Jayanty	Research Triangle Institute, USA	Chem 1004(i) Air pollution, and interacted with the Research scholars of the department on the study and remedial methods of air pollution	3 Dec to 5 Dec 2010
Dr. Nanduri Srinivas	Senior Director, Medicinal Chemistry, Aurigene Discovery Technologies Limited, Bangalore	Chem 1002 & Chem 1003 Drug discovery, QSAR studies Active ingredients of Indian and Chinese Medicinal Plants	Weekends of February, 2011

Research Projects

Granting Agency	Principle Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
DBT	Dr. R Sai Sathish (Ramalinga Raju, Fellow) Application of plasmonic technologies and microbes- fortified biosorbents for efficient integrated bio processing	1 Mar 2011 to 29 Feb 2016	70 Lakhs

Granting Agency	Principle Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
UGC Major Project	Dr. G Nageswara Rao Antioxidant activity and nutraceutical potential of indigenous edible mushroom (Calocybe indica)	1 Feb 2010 to 31 Jan 2013	4.43 Lakhs

Notes: Anti-oxidant activity of Calocybe indica along with two edible mushrooms was investigated. The results have been communicated to the Journal of Food Science and Technology. Proximate analysis and fatty acid analysis of Calocybe indica have also been carried out.

Granting Agency	Principle Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
DBT – LP-PLA2	Prof. Chelli Janardhana A study of its role in coronary artery disease in Asian Indians and novel detection methods using Nano-biosensors	21 Jan 2011 to 20 Jan 2014	10.94 Lakhs
Granting Agency	Principle Investigator & Title of the Project	Time Period	Total (Rs.) Allocation

Notes: Various chemosensors have been synthesized as per the proposed plan. The interaction of the transition metals with the synthesized chemosensors are being studied qualitatively.

Granting Agency	Principle Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
M/s Honeywell Technology Solutions	Prof. Chelli Janardhana Evaluation of water samples for identification and measurement of various water components. Verification and bench marking of the measured quantities.	1 Jan 2009 to 31 Dec 2011	15 Lakhs

Notes: The responsibility of this interdisciplinary project is shared by both the Dept. of Biosciences and the Dept. of Chemistry.

The work was done in Honeywell labs where the fluoride standards were prepared for sensing using the graphite electrode. The graphite electrode posed leaching problem in the Millipore water medium and hence the study was restricted to detection of total dissolved solid using the principle of conductivity. Further study on carbon paste electrode doped with suitable dopants with the aim of getting fluoride ion specific results is being done in the University.

Granting Agency	Principle Investigator & Title of the Project	Time Period	Total (Rs.) Allocation

CSIR – Extramural Division	Dr. G Nageswara Rao Supramolecular Helicates: Sub component assembly & dynamic investigations	1 Jan 2000 to 31 Dec 2011	8.1 Lakhs
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Notes: Phenanthrolinedicarboxaldehyde was synthesized from its dimethyl derivative. This dialdehyde imine with sulphanilic acid and corresponding complexes with Cu(I), Cu(II),Ni(II),Zn(II),and Co(II) were synthesized. The IR and UV spectral characterization of the synthesized complexes were done. Mass spectral analysis is under progress. Attempts to prepare the extended complexes with this aldehyde are also under progress.

Granting Agency	Principle Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
CSIR	Dr. K Anil Kumar Improved chemical entities as anti-tubercular agents targeting the respiratory pathway of the organism through co-crystal engineering	1 Sep 2010 to 31 Aug 2011	9 Lakhs

Notes: The compound Atovaquone was isolated from Malarone (Anti-Malaria) tablets and needs to be recrystallized. The studies on Atovaquone by making its co-crystals and their complete characterization by using IR, PXRD, DSC and TGA are under progress. Solubility and Rate of dissolution studies are being undertaken.

Granting Agency	Principle Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
UGC Minor project	Dr. C N Sundaresan Development of new semiconducting and fluorescent nanomolecules based on oligothiophenes	1 Feb 2009 to 31 Jan 2011	1 Lakh

Notes: Various chemosensors have been synthesized as per the proposed plan. The interaction of the transition metals with the synthesized chemosensors are being studied qualitatively.

Progress Report: The last phase of the project is in progress and is expected to be completed shortly. An alternate synthetic strategy was evolved to obtain the required molecules as the previously envisioned pathway was not experimentally possible as some of the key molecules are extremely unstable. The aldehydes of thienyl, bithienyl were converted to their corresponding alcohols and Mitsonubu's reaction will be utilized to synthesise the envisaged molecules. An important key reagent Diisopropylazo dicarboxylate for which an order has been placed will be used. During the period under review, formylation of thiophene, bithiophene and terthiophene was carried out by Vielsmeyer Hack formylation and then reduced to the corresponding alcohols using sodium borohydride. 4-methyl-7-hydroxy coumarin was prepared. Allylic bromination of orcinol was carried out and the resultant product will be reacted with 4-methyl umbillerone to obtain coumarin substituted orcinol. For the synthesis of tetrathienyl, the key reagent 2 – bromobithiophene and dichloro-bis(diphenylphosphine) Ni(II) were prepared. Further work is in progress.

Research Activities by the Department

a) **Mr. M Ramakrishna** had isolated a compound from the diethylether fraction of the roots of Breynia vitis-idaea after many purification steps using column and flash chromatographic techniques. Various extracts/fractions have been prepared from the roots, stems and leaves of Breynia vitis-idaea for carrying out the antimicrobial potential studies of the plant against various Gram positive and Gram negative microorganisms. He had worked on the determination of the antioxidant potential of four marine algae namely, Gracilaria corticata, Kappaphycus alvarezzi, Gracilaria edulis and Halymenia floresia using various assays. (Manuscript is under preparation for communication to a Journal). He had also worked on the determination of the antioxidant potential of dry and fresh Annona squamosa leaves using various antioxidant assays. (Accepted for poster presentation at International Conference on Global Environment and Its Sustainability: Implications and Strategies held at Chennai). Methanol, Ethanol, Aqueous alkali and several other extracts have been prepared from Pycnoporus cinnabarinus for determining and estimating cinnabarinic acid. Work is currently going on inorder to identify the most appropriate extraction method for quantification of cinnabarinic acid content.

- b) Mr. A Sunil had developed fluorometric and photometric methods for the determination of cobalt(II), chromium(III), chromium(VI), cadmium(II), mercury(II), nickel(II) using o-hydroxyphenolthiourea(OHPTU). Various studies like the effect of pH, temperature, surfactants, activators, interfering ions have been investigated for developing the method. The validation and application studies for the developed methods are under progress. Single crystal studies of OHPTU are also in progress. The fluorescence meter in the department is extensively used for the current studies.
- c) **Mr. S Sai Giridhar** has been working on a new experiment to test a theory that we have developed, which is also in tune with his research objective, "Early detection of heart diseases in young Indians". The experiment is based on re-crystallization of the polymorphs of API(s).
- d) **Mr. K M Ganesh** had carried out the FTIR characterization of the Biomass after the acid, alkali and enzymatic treatment to study the affect on various functional groups. The manuscript of this work is being prepared and will be submitted for publication after getting the FT Raman reports of the same sample. The Fluoride uptake capacity from standards and tap water by oxides of Calcium/magnesium nano powders synthesized by combustion based technique was also analyzed.
- e) **Mr. G Abhilash** had synthesised Gold and Silver nanoparticles using the stem extracts of a medicinal plant, *Breynia rhamnoides*. This is a novel, fast and environmental friendly route for the synthesis of nanoparticles. He had also studied the catalytic properties of the prepared biogenic nanoparticles towards the reduction of 4-Nitrophenol to 4-Aminophenol, and observed that the extract concentration used for nanoparticle synthesis has a control over the catalytic properties. The work carried out has been communicated to the "Journal of Physical Chemistry C," under the title "Catalytic Reduction of 4-Nitrophenol using Biogenic Gold and Silver Nanoparticles Derived from *Breynia rhamnoides*". Currently he is working on:

i) Synthesizing Gold nanoparticles from a natural antioxidant chrysin as a reducing and stabilising agent using different methods(solvothermal, Microwave irradiation, etc.), and

- ii) Synthesizng Gel-based nanoparticles using polyacrylamide gel.
- f) **Dr. R Sai Sathish** is currently designing the set-up of the Surface Plasmon Coupled Emission instrumentation and working on novel synthesis of nano particles and their applications. The study of lignocellulosic biomass samples as sorbents for environmental remediation is also under progress.
- g) **Dr. D Rajesh Babu**, is studying the cadmium removal in water using spent mushroom substrate. Spent substrates from six mushroom species are being explored for their efficiency in removing cadmium from water. The AAS instrument in the department is being used extensively for this study.
- h) **Mr. K Naga Sai Visweswar** has documented the proposal for the doctoral research program and submitted this in the third week of Dec 2010. The title of the proposal is "Biosynthesis and applications of Cyclic β - (1 \rightarrow 3), (1 \rightarrow 6)-glucans produced by *Bradyrhizobium japonicum*". As a part of Bio-catalytic research, the oxido-reductase reactions are being studied using *Escherichia coli* bacteria. The preliminary studies are being done on reduction of acetophenone.
- i) **Mr. K Sai Girdhar Sharma**, an M.Phil. student in the department is working on Forskolin which is a potent medication for Glaucoma. He is preparing the co-crystals of the said compound for investigation.
- j) Sri Govind Pratap Singh had coupled 2-picoline using sodium. He has also prepared five different supramolecules using five different metal salts with 1,10-phenanthroline-2,9-dicarboxaldehyde and sulfanilic acid as ligands and has sent them for characterization.

Journal Papers

The following are the research papers published in journals by the Chemistry Department this year:

- Dandamudi Rajesh Babu and G Nageswara Rao, "In vitro studies on extracts of Pongamia pinnata(L) Pierre flowers as a potent antioxidant", International Journal of Agriculture & Food Science Technology, Volume 1, Number 1, pp. 7-11, 2010.
- Dandamudi Rajesh Babu and G Nageswara Rao, "Antioxidant properties and electrochemical behavior of cultivated commercial Indian edible mushrooms", Journal of Food & Science Technology. 2011, DOI:10.1007/ s13197-011-0338-8 (online first), 2011.
- R Sai Sathish, C Yuhong, M K Kalyan, G Nageswara Rao, C Janardhana, and S Mitra, "Carbon nanotube-zirconium dioxide hybrid for defluoridation of water", Journal of Nanoscience & Nanotechnology, 11: 1-8. Impact Factor = 1.440, 2011.

Conference Papers

Faculty & Research Scholars from the Dept. of Chemistry presented the following papers during the academic year:

- Dandamudi Rajesh Babu, Meera Pandey, G Nageswara Rao and G Senthil Kumar, "Oyster cultivation in India- A Sustainable Model", Global Environment Sustainability: Implications and Strategies-Part I, RKM Vivekananda College, Mylapur, Chennai, 7 Nov 2010. (Received the best poster award).
- M Ramakrishna, Dandamudi Rajesh Babu, K Sai Giridhar Sharma, S Chandra and G Nageswara Rao, "Indigenous Marine Algae - Source for antioxidants", Global Environment Sustainability: Implications and Strategies-Part II., Ambassador Standard, Bangkok, Thailand, 25-29 Nov 2010.
- Dandamudi Rajesh Babu, Raj Kumar D, Pranav Kumar Prabhakar, Vijayalakshmi Venkatesan, Mukesh Doble and п G Nageswara Rao, "Insulinotropic and glucose uptake effects of Pongamia pinnata flower extract", 98th Indian Science Congress, Kattankulatur, Tamil Nadu, Jan 2011.
- Lohith K, B Siva Kumar, and C N Sundaresan, "Fluoride Sensing Using Qunizarin-Al Complex-a novel colorimetric method", Poster presentation, Chennai Chemistry Conference, IIT Madras, 11 and 13 Feb 2011.
- Sunil and S Jagadeeswara Rao, "Determination of cadmium (II) in aqueous samples using novel chemo sensor," National Seminar on Emerging Trends in Electro Chemical Studies (ETECS-2011), Sri Krishnadevaraya University, Anantapur, 25-26 Mar 2011.
- Dandamudi Rajesh Babu, Meera Pandey, Gopal C, G Nageswara Rao, "Metal resistance and uptake capacity of edible mushroom: Hypsizygus ulmarius.3", Division of Agricultural and Food Chemistry, 241st National Meeting of American Chemical Society (ACS), Paper ID: 17583, Anaheim, California, 29 Mar 2011.

M.Sc. (Chemistry) PROJECTS			
Name	Project Title	Supervisor	
A Kiran Kumar	Synthesis and Characterization of Pharmaceutical cocrystals of Naproxen	Dr. K Anil Kumar	
Amit Chandrasekhar	Kinetic-catalytic methods for determination of trace quantities of transition metals	Dr. S Jagadeeswara Rao	
B Rajasekhar	Synthesis, Crystal growth, Non linear optical and antibacterial studies of Dibenzylideneacetone derivatives	Dr. G Nageswara Rao	
B Sunil Kumar	Nutritional and nutraceutical potential of selected edible mushrooms	Dr. G Nageswara Rao	
Kumar Sai Smaran	Synthesis and characterization of Co(II),Ni(II), Cu(II) complexes of 2-thioureidobenzimidazole and 2- thioureidobenzoxazole and evaluation of their anti-fungal activity.	Dr. C N Sunaresan	
Lakshman Kumar V	Study of electrocatalytic oxidation of methanol, ethanol and formic acid in alkaline and acid medium using novel Platinum/Palladium on functionalized multiwalled carbon nanotubes modified carbon paste electrode, their activation energies and Tafel slopes	Prof. Chelli Janardhana	
Lohit K	A self-organized ensemble of Fluorescent Quinizarin-Al(III) complex as a fluoride sensor	Dr. B Sivakumar & Dr. C N Sundaresan	
M Janakiram	An exploratory study on the use of edible proteins for defluoridation of water.	Dr. K Anil Kumar	
Mihir Kumr Khatua	Molecular docking studies on cytotoxic activity of podophyllotoxin derivatives	Dr. B Sivakumar	
R S Sai Siddhardha	Supramolecular Chemistry: Subcomponent assembly and Characterization	Dr. G Nageswara Rao	
K Suvratha	Bioremidiation of cadmium (Cd ²⁺) in water using spent mushroom substrates	Dr. G Nageswara Rao	
Sai Praneeth Thota	Study of the electrocatalytic oxidation of some aliphatic alcohols using gold electrode modified by Ni-curcumin and Ni-nitrocurcumin polymers	Prof. Chelli Janardhana	
V Tarunchand	Exploring the use of spent mushroom substrates for cadmium (Cd ²⁺) removal.	Dr. G Nageswara Rao	

Projects & Dissertations Completed

Appendix E Department of Home Science

Journal Papers

- Rajeshwari C U and Andallu B, "Oxidative stress in NIDDM patients: Influence of coriander (Coriandrum sativum) seeds", Research Journal of Pharmaceutical, Biological and Chemical sciences. 2(1):31-41, 2011.
- Rajeshwari C U, Abirami M and Andallu B, "In vitro and in vivo antioxidant potential of aniseeds (Pimpinella anisum)", Asian Journal of Experimental Biological Sciences, 2(1):80-89, 2011.
- Ullagaddi Rajeshwari, Iyer Shobha and Andallu B, "Comparison of aniseeds and coriander seeds for antidiabetic, hypolipidemic and antioxidant activities" Spatula DD. 2011; 1(1): 9-16, (Turkish Journal), 2011.
- Rajeshwari C U and Andallu B, "Medicinal benefits of coriander (Coriandrum Sativum L)", Spatula DD. 1(1), 51-58. (Review article, Turkish journal), 2011.
- Sai Lakshmi M, Abirami L S S, R Pushkala and Srividya N, "Enhancement of storage life and quality maintenance of papaya fruits using Aloe vera based anti-microbial coating", Indian Journal of Biotechnology, 10:83-89, Jan 2011.

Conference Papers

- Tapasya Anand and Rashmi Kapoor, "Mushroom diet supplementation on Lipid Profile and Antioxidant Status in Type 2 Diabetic subjects", International Conference on New Frontiers in Diabetes Research, Dept. of Biosciences, SSSIHL, Prasanthi Nilayam, Andhra Pradesh & Madras Diabetes Research Foundation, Chennai, Tamil Nadu, 13-14 Aug 2010.
- Rashmi Kapoor, "Development of Therapeutic foods and validation of Health benefits in Diabetic Mellitus", International Conference on New Frontiers in Diabetes Research, Dept. of Biosciences, SSSIHL, Prasanthi Nilayam, Andhra Pradesh & Madras Diabetes Research Foundation, Chennai, Tamil Nadu, 13-14 Aug 2010.
- B Andallu and N Ch Varadacharyulu, "Protective role of mulberry (Morus indica L.) leaves against oxidative stress and cataract in STZ-diabetic rats", International Conference on New Frontiers in Diabetes Research, Dept. of Biosciences, SSSIHL, Prasanthi Nilayam, Andhra Pradesh & Madras Diabetes Research Foundation, Chennai, Tamil Nadu, 13-14 Aug 2010.
- Rajeshwari C U and Andallu B, "Antidiabetic and antioxidant efficacy of coriander (Coriandrum sativum) leaves in NIDDM patients", 2nd International Seminar on Medicinal Plants and Herbal Products, S V University, Tirupati, A P Medicinal & Aromatic Plants Board, A P State Council of Science & Technology (APCOST), Association of Pharmaceutical Teachers of India, Hyderabad, 27-29 Dec 2010.
- Shobha I R, Mahalakshmi S and Andallu B, "Free radical scavenging activity (in vitro) and antioxidant potential (in vivo) of (Murraya koenigii) leaves", 2nd International Seminar on Medicinal Plants and Herbal Products, S V University, Tirupati, A P Medicinal & Aromatic Plants Board, A P State Council of Science & Technology (APCOST), Association of Pharmaceutical Teachers of India, Hyderabad, 27-29 Dec 2010.
- Siri S and Andallu B, "Oxidative stress in osteoarthritis: Protective role of coriander leaves", 2nd International Seminar on Medicinal Plants and Herbal Products, S V University, Tirupati, A P Medicinal & Aromatic Plants Board, A P State Council of Science & Technology (APCOST), Association of Pharmaceutical Teachers of India, Hyderabad, 27-29 Dec 2010.
- M Srijaya, "Effect of postharvest treatments and gamma postharvest treatments and gamma irradiation on shelf life extension of Zizyphus", National Conference on Processed foods – A trend beyond boundaries, M O P Vaishnav College for Women, Chennai, 11-12 Feb 2011.

- M Srijaya, "A comparative study of physico- chemical and functional properties of raw and heat processed jack fruit seed flour", National Conference on Processed foods – A trend beyond boundaries, M O P Vaishnav College for Women, Chennai, 11-12 Feb 2011.
- M Srijaya, "Response of Ber fruit (Zizyphus mauritina) to the gamma irradiation and post treatment in quality maintenance and shelf life extension", International Conference on traditional foods, AFSTI, Pondicherry University, Puducherry, 1-3 Dec 2010.
- N Srividya, "Traditionally used edible flowers, ethno medical knowledge, antioxidant potential and product development", International Conference on traditional foods, AFSTI, Pondicherry University, Puducherry, 1-3 Dec 2010.
- N Srividya, "Aloe gel enriched dahi, a traditional fermented dairy product and its physico-chemical and quality characteristics", International Conference on Traditional Foods, AFSTI, Pondicherry University, Puducherry, 1-3 Dec 2010.
- Tapasya Anand and Rashmi Kapoor, "Enhancing the antioxidant status of diabetic subjects with mushroom (Calocybe indica) supplemented powders", National Conference on conservation of Medicinal Plants – Herbal products and their Uses, Department of Botany, Arts & Science College for Women, Andhra Mahila Sabha, OU Campus, Hyderabad, 26-27 Nov, 2010.
- Chandrabala and Rashmi Kapoor, "Nutrients dense weaning food formulation from Bacopa monnieri (Brahmi)", National Conference on Conservation of Medicinal Plants – Herbal products and their Uses, Dept. of Botany, Arts & Science College for Women, Andhra Mahila Sabha, OU Campus, Hyderabad, 26-27 Nov, 2010.
- Tapasya Anand and Rashmi Kapoor, "Formulation of nutrient dense mushroom incorporated weaning food", National Conference on Processed Foods – A Trend Beyond Boundaries, M O P Vaishnav College for Women, Chennai, 11-12 Feb, 2011.
- Indira B and Rashmi Kapoor, "Development of instant probiotic enriched cereal based soy based product", National Conference on Processed Foods – A Trend Beyond Boundaries, M O P Vaishnav College for Women, Chennai, 11-12 Feb, 2011.
- Rajeshwari C U and Andallu B, "Free radical scavenging activity (in vitro) and antioxidant potential (in vivo) of coriander (Coriandrum sativum) seeds", 19th APSI Scientist Meet 2010 and UGC-sponsored National Conference on Plant Biotechnology towards Nutrition and Nutraceutical Potential, S N Vanitha Mahavidyalaya, Hyderabad, 30 Sep to 1 Oct, 2010.
- Rajeshwari C U and Andallu B, "Extraction and detection of nutraceuticals in the methanolic extract of the seeds of coriandrum sativum by RP-HPLC", 19th APSI Scientist Meet 2010 and UGC-sponsored National Conference on Plant Biotechnology towards Nutrition and Nutraceutical Potential, S N Vanitha Mahavidyalaya, Hyderabad, 30 Sep to 1 Oct, 2010.
- Andallu B and Rajeshwari C U, "Determination of flavonoids in the ethanolic extract of Coriandrum sativum seeds by HPLC", Conservation of Medicinal Plants-Herbal products and their uses, Andhra Mahila Sabha, Hyderabad, 25-26 Nov 2010.
- Andallu B, Preeti M and Rajeshwari C U, "Efficacy of mint (Mentha spicata L.) leaves in controlling oxidative stress in type 2 diabetes", Conservation of Medicinal Plants-Herbal products and their uses, Andhra Mahila Sabha, Hyderabad, 25-26 Nov 2010.
- Rajeshwari C U and Andallu B, "Isolation and quantification of caffeic acid, chlorogenic acid, quercetin and rutin from Coriandrum sativum L. seed extract by HPLC", National Seminar on Recent Trends in Pharmaceutical Chemistry (RTPC-2011), Krishna University, Machilipatnam, APSCHE Hyderabad, & AP Pollution Control Board, Vijayawada, 30-31 Jan 2011.
- Andallu B and Beenu T, "Comparison of nutrients, free radical scavenging and antioxidant potential of fig (Ficus carica L.) and its products, Jam and Squash", Processed Foods – A Trend Beyond Boundaries, School of Food Science, M O P Vaishnav College for Women, Chennai, 11-12 Feb, 2011.

- Andallu B and Deepa T, "Retention of lycopene and antioxidant potential in watermelon (Citrullis lanatus) subjected to various dryings", Processed Foods – A Trend Beyond Boundaries, School of Food Science, M O P Vaishnav College for Women, Chennai, 11-12 Feb, 2011.
- Andallu B and Deepa T, "Effect of various drying methods on the antioxidant efficacy of jamun (Eugenia jambolana) fruit", Processed Foods A Trend Beyond Boundaries, School of Food Science, M O P Vaishnav College for Women, Chennai, 11-12 Feb, 2011.
- N Srividya, "Post-prandial glycemic response to a wheat-based meal supplemented with Aloe vera gel and chitosan in normal subjects", 43rd Annual National Conference of the Indian Dietetic Association, AP Chapter, Hyderabad, National Institute of Nutrition, Hyderabad, India, 2-4 Dec 2010.
- N Srividya, "Chitosan, a novel biopreservative for increasing the shelf life quality of minimally processed radish, Low-fat therapeutic dairy product with probiotic and prebiotic fat mimetic, Germination as a process to enhance the biofunctional properties of chickpea", Processed Foods – A Trend Beyond Boundaries", School of Food Science, M O P Vaishnav College for Women, Chennai, 11-12 Feb, 2011.

Books Published - Contributory Chapters:

- Andallu B and Rajeshwari C U, "Aniseeds: Aniseeds (Pimpinella anisum L) in Health and Disease", in Nuts and Seeds in Health and Disease Prevention, Chapter 20, pp. 175-181, Elsevier Limited, Oxford, UK, 2011.
- Andallu B and Rajeshwari C U, "Ajwain seeds: Therapeutic Potential of Ajwain seeds (Trachyspermum ammi L)", in Nuts and Seeds in Health and Disease Prevention' Chapter 17, pp. 153-159, Elsevier Limited, Oxford, UK, 2011.

Special Achievements

- Dr. (Mrs.) B Andallu received the APSI Award-Gold Medal (Academy of Plant Sciences of India) for outstanding contribution in research on Diabetes and Medicinal plants in the 19th APSI Scientist Meet 2010, S N Vanitha Mahavidyalaya, Hyderabad, 30 Sep 2010.
- Dr. (Mrs.) B Andallu delivered a lecture on '*Reactive oxygen species: Oxidative damage and Protective role of Nutraceuticals*' at the UGC-sponsored National Conference on Plant Biotechnology Towards Nutrition and Nutraceutical Potential', S N Vanitha Mahavidyalaya, Hyderabad, 1 Oct 2010.
- Dr. (Mrs.) B Andallu delivered a lecture on 'Free radicals: Oxidative damage, pathogenesis and Protective role of natural products', 2nd International Seminar on Medicinal Plants and Herbal Products, SV University, Tirupati, A P Medicinal & Aromatic Plants Board, A P State Council of Science & Technology (APCOST), Association of Pharmaceutical Teachers of India, Hyderabad, 27-29 Dec 2010.
- Dr. (Miss) N Srividya received 2nd prize for the following paper- "Low fat therapeutic dairy product with probiotic and prebiotic fat mimetic" at the National seminar, Processed Foods A Trend Beyond Boundaries, School of Food Science, M O P Vaishnav College for Women, Chennai, 11-12 Feb, 2011.

Projects & Dissertations Completed

M.Sc. (Home Science) DISSERTATIONS			
Name	Dissertation Title	Supervisor	
A Priyadarshini	Screening of aniseeds (Pimpinella anisum L.) for oxidative and anti-arthritic activity.	Dr. (Mrs.) B Andallu	
Akriti Pradhan	Effect of feeding alfalfa seed sprouts on biochemical parameters in diabetic subjects.	Dr. (Mrs.) Rashmi Kapoor	
A Sai Ramya	Utilization of cauliflower leaves in the formulation of certain dehydrated products.	Miss M Meera	
Easwari	Glycemic effects of Alfalfa seeds enriched product in non-insulin dependent diabetic subjects.	Dr. (Mrs.) Rashmi Kapoor	
Shushma K D N S S	Utiliation of Drumstic (Moringa oleifera) leaves in formulation of baked products.	Mrs. A Sumana	
Mekha	Effect of supplementation of developed iron enriched product on hematological response of adolescent girls.	Miss Meera	
Parvathy K R	Evaluation of chitosan coating on the quality of minimally processed carrots and radish.	Dr. (Miss) N Srividya	
R Preeti Bai	Efect of pretreatments and gamma irradiation on the shelf life and quality characteristics of tomato.	Miss M Srijaya	
R Shruthi	Phytochemical composition and glycemic response of selected legume sprouts.	Dr. (Miss) N Srividya	
V Suneetha Mala	Shel life and quality of Carica papaya L. in response to postharvest application of gamma irradiation.	Miss M Srijaya	
Miss Shweta Rani Rai	Efficacy of coriander (Coriandrum sativum L.) seeds in combating oxidative stress in arthritic patients.	Dr. (Mrs.) B Andallu	

Appendix F Department of Management Studies

Visiting Faculty

Name	Designation	Course Covered	Duration
	Consultant	Management information & Decision Support Systems	Full Semester
Sri Mandip Sandhu	IBM, Canada	Research methods for managers Computer Applications Colloquium for I- MBA & MBA (Finance)	Nov 2010 to Mar 2011
Sri P S Sairam	Hon. Faculty, SSSIHL	Business laws & awareness	Full Semester
Sri V K Sharma	Hon. Faculty, SSSIHL	Insurance for Corporates and Insurance & Risk Management	Full Semester
	non. raculty, 555ine	Underwriting and Actuarial Applications	Dec 2010 to Feb 2011
Sri Nosh Vadoli	Freelance Consultant in GIS, USA	Geospatial Information System	Full Semester
Sri U Vasudeva Rao	Former DGM of Bank of Baroda Ltd.	Retail Banking	Full Semester
Sri N T Arun Kumar	CEO, D&B Transunion	Overview and importance of Analytics in management (CLQM)	11 to 13 June 2010
Sri Sunny Munshi	Active Trader and investor in equities listed on NYSE and Indian Exchanges	BP - Beyond just the oil slick (CLQM)	19 Jun 2010
Sri Sathya Sai Mudigonda	Consultant, Puttaparthi, AP	Insurance & Risk Management and Insurance for Corporates	22 to 24 June 2010
Sri Vivek N Gour	Vice-President, Geo Capital Services (India)	On global issues in Finance	26 Jun 2010
Sri T A Sundar	Consultant (Trainer) Bangalore	Inputs on professionalizing attitudes and skills	3 Jul 2010
Dr. Prasad Bingi	Associate Professor in Information, Indiana-Purdue Univ., Fort Wayne, IN, USA	Customer Relationship Management in E-Business	11 to 21 Jul 2010
Sri Samir Parekh	Consultant (Trainer), Mumbai	Conceptual & Strategic Selling (Colloquium)	10 Jul 2010
Sri Jagannathan	Executive Vice-President & Global Head of Business Excellence, TCS, USA	Tata model of leadership (Colloquium)	22 Jul 2010
Sri Jaya Prakash	President, Strategic Focus, USA	Operations Management-Financial services, "Back office services in Banks"	13 to 23 Jul 2010
	Director/CEO,	Self-Development	Jul to Aug 2010
Dr. David Cornsweet	William Gumpert Foundation, CA, USA	Group Dynamics and Personnel Counselling	25 Nov 2010 to 16 Jan 2011
Sri Surender Sharma	Consultant, Canada	Challenges and Innovations in energy conservation Colloquium (I-MBA &MBF)	12 Aug 2010

	Senior Project Manager,	Customer Relationship Management	15 Aug to 15 Sep 2010
Sri Vikas Gupta	CSC India Pvt. Ltd.	Supply chain Management	25 Nov 2010 to 11 Feb 2011
Sri R Subramanian	Founder Chairman, Sterling Holiday Resorts, Chennai	Experience sharing (Colloquium)	19 to 20 Aug 2010
Sri Anil Mavinkurve	Executive Director, J.M. Financial Services, Mumbai	Derivatives (Colloquium)	26 to 29 Aug 2010
Sri Siddharth Gopinath	Vice-President, Marketing and R&D, New world Pasta Pennsylvania, USA	Case study on Internet behaviour of consumers, Migrating a local brand to global brand	23 to 27 Aug 2010
Mr. Kunal Chattarjee	Infosys BPO as Principal Consultant – Quality Services & Global Quality Lead, Chennai	Industry experience in six sigma	4 Sep 2010
Sri. V M Ramalingam	Consultant, TVS Motors	Personality test – I-MBA & I-MBA (Fin)	29 to 30 Aug 2010
Sri Sridar Swamy	India Advisory Partners Pvt Ltd., (IAP) Investment Banking, Mumbai	Legal Requirement of M&A	29 Aug to 2 Sep 2010
Sri R R Nair	Independent Consultant, TVS Motors	Assertiveness Training (I-MBA & I-MBA (Fin)	10 to 11 Sep 2010
Sri V Kiran	Senior Manager, TVS Motors Ltd., Hosur	Practical Excel Modeling	15 Sep 2010
Sri Vasudeva Rao	Former DGM of Bank of Baroda Ltd.	Corporate Banking (elective)	Nov 2010 to Mar 2011
Sri M Sathya Sai	Consultant	Underwriting and Actuarial Application	Nov 2010 to Mar 2011
Prof. Bhanoji Rao	Adjunct Professor, National University, Singapore	Trend in India Economy, Impact of Economic Reforms – challenges ahead for Indian economy	25 to 26 Nov 2010
Sri Krishna Swamy	Vice-President, Petro Chemicals, USA	Case study on Ford Motor Co.	27 Nov 2010
Sri C H Srinivaslu	CEO-President-General Manager, Birla Group of Industries, Hyderabad	Role of Technology in Rural Developments	2 Dec 2010
Sri P C Padmanabhan	MD, DoubleDay Holdings, Dayton, OH, USA	Effective presentation skills	2 Dec 2010
Sri Ashoke Joshi	Chairman, Srinivasan Services Trust, Bangalore	CSR and its impact – the Srinivas Services Trust initiatives	3 Dec 2010
Mr. Suresh Narayana A	MD, M/s Portman (India) Pvt. Ltd., Chennai	Infrastructure Industry Opportunities and Sea Ports Management	5 to 7 Dec 2010
Sri Vivek Gour	Managing Director, Air Works India, New Delhi	Case study of Aviation Industry Business.	11 Dec 2010
Sri M Srinivasan	Director of Technology, E-Business practice, Bangalore	UML/USE case methodology for gathering requirements	18 Jan to 10 Feb 2011
Sri Nitin Nath	Managing Director, Institutional Client Sales, Deutsche Bank	Liquidity risk	14 to 16 Feb 2011

Sri Samir Bhatia	MD & CEO, Equifax Credit Information Co. Pvt. Ltd., Mumbai	On credit rating functions role in industry (colloquium)	12 Feb 2011
Sri T A Padmanabhan	Ex. Chief General Manager, State Bank of Indore	Case studies in financing of major projects	12 Feb 2011
Sri Kovaichelvan	Senior Vice-President, HR, TVS Motor Co. Ltd.	Latest developments in HR	19 Feb 2011
Sri Mahesh Vellanki	New York	On the various functions & roles in an investment bank	26 Feb 2011

Workshops & Conferences Conducted

Title: "Innovation and Leadership in Business, Government and Community"
Dates: 2 to 4 August 2010
Venue: Multimedia Centre, SSSIHL, Prasanthi Nilayam Campus,
Keynote Address: Dr. R Chidambaram, Principal Scientific Advisor, Government of India
Valedictory Address: Prof. A Anantha Raman, Dept. of Management Studies, Sri Sathya Sai Institute of Higher Learning

PROGRAMME

DAY 1: Mon 2 Aug 2010

Inaugural Session			
Name & Designation	Title of the Talk		
Prof. A Sudhir Bhaskar, Dean, Faculty of Management & Commerce, SSSIHL	Welcome		
Dr. R Chidambaram, Principal Scientific Advisor to the Government of India	Lighting of Lamps		
Prof. J Shashidhara Prasad, Vice-Chancellor, SSSIHL	Opening remarks		
Dr. R Chidambaram, Principal Scientific Advisor to the Government of India	Keynote address		
Prof. A Anantha Raman, Professor, Dept. of Management Studies, SSSIHL	Setting the Context		
Mr. Arvind Hejmadi, Placement Officer, Dept. of Management Studies, SSSIHL	Vote of Thanks		

Session 1 – Innovation for Growth – Manufacturing and Service Sectors			
Name & Designation	Title of the Talk		
Prof. A Anantha Raman, Professor, Dept. of Management Studies, SSSIHL	Introduction to Session 1		
Mr. V. Raja, President and CEO, GE Healthcare, India	Reverse Innovation at GE		
Mr. Sharat C Bhargava, Senior Vice-President , Larsen & Toubro	Innovations for World Class Manufacturing		
Mr. N. Chandrasekaran, CEO, Tata Consultancy Services	Innovations to sustain Competitive Advantage in IT		
Students	Vote of Thanks		

Session 2 – Innovations to Sustain Growth – Financial Services Sector			
Name & Designation Title of the Talk			
Prof. A Anantha Raman, Professor, Dept. of Management Studies, SSSIHL	Introduction to Session 2		
Mr. Jagdish Capoor, Chairman, HDFC Bank	New vistas in the financial sector		

Ms. Ashu Suyash, Country Head, Fidelity International	Innovative approaches for making the most of your Savings
Mr. P N Vasudevan, Managing Director, Equitas	Challenges and Innovations for Financial Inclusion
Round Table Discussion	Perspectives from Sessions 1 & 2
Students	Vote of Thanks

DAY 2: Tue 3 Aug 2010

Session 3 – Innovation – Some additional Perspectives			
Name & Designation	Title of the Talk		
Prof. A Anantha Raman, Professor, Dept. of Management Studies, SSSIHL	Introduction to Session 3		
Mr. Sam Pitroda, Adviser to PM on Public Information, Infrastructure and Innovations	Action plan for a decade of Innovation (via Video Conference)		
Mr. Venkat Changavalli, CEO, GVK EMRI	Community Service - An innovative Public Private Partnership model		
Mr. Murugan Pal, President, CK-12 Foundation	Innovative practices to reduce cost of education		
Mr. P M Pai, Venture Partner, New Enterprise Associates	Innovations in Alternative Energy sources		
Students	Vote of Thanks		

Session 4 – Innovation for Growth – PSU / Manufacturing Sector		
Name & Designation	Title of the Talk	
Prof. A Anantha Raman, Professor, Dept. of Management Studies, SSSIHL	Introduction to Session 4	
Mr. R C Bhargava, Chairman, Maruti Suzuki India Ltd.	Lessons from Maruti - Success story of a PSU	
Mr. B Prasada Rao, Chairman & MD, BHEL	Doing New & Different: Innovations in BHEL	
Mr. B N Bankapur, Director (Refineries), IOCL	Challenges & Opportunities in the Oil Industry	
Round Table Discussion	Perspectives from Session 4	
Students	Vote of Thanks	

Session 5 – Innovation – A Policy Perspective			
Name & Designation	Title of the Talk		
Prof. A Anantha Raman, Professor, Dept. of Management Studies, SSSIHL	Introduction to Session 5		
Mr. Robert Naylor, Former CIO, US Small Business Administration	Innovations in the Government – A Case Study from the US Government		
Mr. Pradeep Kharola, Commissioner of Commercial Taxes, Govt. of Karnataka	Innovations in Public administration – A practitioner's perspective		
Dr. J S Sarma, Chairman, TRAI	Role of TRAI in fostering Innovation		
Round Table Discussion	Perspectives from Session 5		
Students	Vote of Thanks		

DAY 3: Wed 4 Aug 2010

Session 6 – Innovation – More examples from the Industry			
Name & Designation	Title of the Talk		
Prof. A Anantha Raman, Professor, Dept. of Management Studies, SSSIHL	Introduction to Session 6		
Mr. S Sai Manohar, Research Scholar, SBM	Types of Innovation - A look at the Success Factors		
Dr. Raghu B Korrapati, CEO, Financial Services Group (FSG)	Innovation for Greater Customer value in the service sector		
Dr. Murali Sastry, Chief Scientist, Tata Chemicals , Innovation Centre	Innovation in the House of Tatas		
Dr. Krishna Mikkilineni, President, Honeywell Technology Solutions	Innovation in Honeywell		
Students	Vote of Thanks		

Session 7 – Technology to support Innovation		
Name & Designation	Title of the Talk	
Prof. A Anantha Raman, Professor, Dept. of Management Studies, SSSIHL	Introduction to Session 7	
Mr. Sam Ganga, Senior VP, Digital Management	Bridging the gap between Idea & Success: Making Innovation Work	
Dr. Ramanathan V Guha, Distinguished Scientist, Google	Ideas that shaped the Web	
Mr. Arvind Mathur, Strategic Technology Officer, CISCO	Leadership through Innovation: The Cisco Approach	
Round Table Discussion	Perspectives from Session 7	
Students	Vote of Thanks	

Session 8 – Innovation in the Social Sector		
Name & Designation	Title of the Talk	
Prof. A Anantha Raman, Professor, Dept. of Management Studies, SSSIHL	Introduction to Session 8	
Ms. Prerana Langa, VP, Strategy & Communications, ICICI Foundation for Inclusive Growth	Innovation in the social sector - An ICICI perspective	
Mr. P S Gunaranjan, Founder and CEO, YouSee	Innovation at the bottom of the pyramid - The story of YouSee	
Round Table Discussion	Perspectives from Session 8	
Students	Vote of Thanks	
Concluding Remarks and Vote of Thanks		

Other Activities

Industrial Visit of MBA / MBA(Finance) Students:

The MBA & MBA (Finance) students visited the following institutions/industries during the period 5 to 9 April 2011:

- Rural Shores, Bagepalli, BPO Operations, Process design etc., Karnataka
- TVS Motors Ltd., Hosur, Bangalore, Karnatka
- Airworks, Hosur, Bangalore, Karnataka
- e-INN, Hosur, Bangalore, Karnataka
- SKF, Hosur, Bangalore, Karnataka
- Sri Sathya Sai Institute of Higher Medical Sciences, Whitefield, Bangalore, Karnataka

Senior Executives at the Director and Vice-President levels of these organizations interacted with the students and gave them insights into their company strategies, policies and practices.

Journal Papers

National Journals:

- Shashank Shah and A Sudhir Bhaskar (2010), "Employee Welfare Management at Bharat Petroleum Corporation Ltd. – A Case Study", Journal of Institute of Public Enterprise, Institute of Public Enterprise, Osmania University Campus, Hyderabad, Vol. 33, Jul-Dec 2010.
- Shashank Shah and A Sudhir Bhaskar (2010) "Employee Management at HDFC Bank A Case Study", Drishtikon
 A Management Journal, Symbiosis Centre for Management and Human Resource Development, Pune, Vol. 2, No.2, Jul 2010 Issue.
- Shashank Shah and A Sudhir Bhaskar (2010), "Employee Welfare Management at Bharat Petroleum Corporation Ltd. – A Case Study", Journal of Institute of Public Enterprise, Institute of Public Enterprise, Osmania University Campus, Hyderabad, Vol. 33, Jul-Dec 2010.
- Shashank Shah and A Sudhir Bhaskar (2010) "Corporate Governance in Public Sector Organisations A Case Study of Bharat Petroleum Corporation Ltd.", Vilakshan, Xavier Institute of Management, Bhubaneswar.
- Shashank Shah (2010) "Relevance of Dharma in Corporate Governance", The Bombay Chartered Accountancy Journal, Vol. 42B Part 1, pp. 15-17, Oct 2010.
- Shashank Shah and A Sudhir Bhaskar (2011) "Corporate Social Responsibility at Wipro Ltd. A Case Study", Prabandhan – Indian Journal of Management, New Delhi.
- Shashank Shah (2011) "Suppliers to Dealers: Stakeholders Management at TVS Motor Company Ltd.", IUP Journal of Supply Chain Management, Hyderabad.
- Shashank Shah and A Sudhir Bhaskar (2011) "Corporate Stakeholders Management: Approaches & Models Empirical Analysis", Journal of Indian Management, Journal of Institute of Public Enterprise, Hyderabad, Mar 2011.

International Journals:

- Shashank Shah and A Sudhir Bhaskar (2010) "Natural Environment Management at Larsen & Toubro's ECC Division – A Case Study", Asia Pacific Business Review, International Journal of the Asia Pacific Institute of Management, New Delhi, Vol. VI, No. 1, pp. 115-121, 2011.
- Shashank Shah and A Sudhir Bhaskar (2011) "Corporate Stakeholders Management An Empirical Study of Organisational Decision Making Criteria", International Journal of Indian Culture and Business Management, Inderscience Publishers, Vol. IV, No. 2, Issue, pp. 218-239, 2011.
- Shashank Shah and A Sudhir Bhaskar (2010) "Corporate Social Responsibility is the function of the CEO" Face to Face with Dr. Venu Srinivasan, Journal of Values-Based Leadership, International Journal of College of Business Administration, Valparaiso University, Indiana, USA, Fall 2010 Issue, Vol.III, Issue II, pp. 33-42.
- Shashank Shah and A Sudhir Bhaskar (2011) "Corporate Social Responsibility in Indian Public Sector Organisations – A Case Study of Bharat Petroleum Corporation Ltd.", Journal of Human Values, International Journal of Indian Institute of Management Calcutta, Vol.16, No. 2, Issue, pp. 143-156, Jan 2011.
- Shashank Shah (2011) "Social and Environment Responsibility Case Study of Hindustan Unilever Ltd." Journal of Human Values, International Journal of Indian Institute of Management Calcutta, Sage Publications, Vol. 17, No.1, Jul 2011.
- Shashank Shah and A Sudhir Bhaskar (2011) "Corporate Stakeholders Management A Case Study of Dun & Bradstreet TransUnion Analytic and Decision Services Pvt. Ltd.", Great Lakes Herald, International Journal of the Great Lakes Institute of Management, Chennai, Vol.5, Issue 1, pp.13-27, Mar 2011.
- Shashank Shah (2011) "Making 10 million families in India self-sufficient" Corporate Social Responsibility at HDFC Bank Ltd. – Dimensions, International Journal of the Indian Business School, Mumbai, Apr 2011.

 Niranjan Narasimhan, Kumar Bhaskar and Srinivas Pakhya (2010) "Existential Beliefs and Values" Journal of Business Ethics, April 2010 (Published online).

Conference Papers

- Sailesh Sridhar, U Vasudeva Rao, U S Rao, "Strategies adopted by Indian Banks before and after the Financial Crises", 3rd National Seminar on Business Strategies: National and Global Perspectives, Indian Academy School of Management Studies, Bangalore, 25-26 Feb 2011.
- Shiv R Pandit "Essential Principles and Basics of Indian Culture and Values for Ethical Management", International Conference on Value-Based Management, Dev Sanskriti Vishwavidyala, Haridwar, India.
- Shashank Shah and A Sudhir Bhaskar (2010) "Corporate Governance at Wipro Ltd. A Case Study", 2nd International Conference on Corporate Governance, Institute of Public Enterprise, Osmania University Campus, Hyderabad, 9-10 Dec 2010.
- Shashank Shah (2011) "Proposing an Employee Welfare Framework for Corporate Organisations in India: A Mixed Method Study", International Conference on Integrating Spirituality and Organisational Leadership, Faculty of Management Studies, Delhi University and Indian Institute of Technology, Roorkee, Gurukula Kangri Vishwavidylaya, Haridwar, 1-5 Feb 2011.
- Shashank Shah and Peter Pruzan (2011) "Integrating Spirituality into the Leadership, Teaching and Research of a University: A Case Study of Sri Sathya Sai Institute of Higher Learning", International Conference on Integrating Spirituality and Organisational Leadership, Faculty of Management Studies, Delhi University and Indian Institute of Technology, Roorkee, Gurukula Kangri Vishwavidylaya, Haridwar, 1-5 Feb 2011.
- Suman Narayan B, Subramanian S and U S Rao (2011), "*Empirical Testing of Select Option-pricing Models*", International Conference on Economics and Finance, IBS Bangalore, Bangalore, 4-5 Jan, 2011.
- Suresh Kumar Dahal, U S Rao, "Green Strategy as a Competitive Advantage", IBA International conference on Evolving Frontiers in Business-Society-Nation Interfaces, Bangalore, 10-12 Mar 2011.
- M. Bharath, Panduranga Rao Sadhu, U S Rao, "Genetic Algorithm for Scheduling in a Flexible Manufacturing System Environment", International Conference on Recent Advances in Mechanical Engineering "INCRAME 2011", Chennai, 21-23 April, 2011.
- Harish Ramachandran & Subramanian S, "An empirical study of Option Delta hedging effectiveness", International Conference on Excellence in Management Practices (ICEMP 2011), Bangalore, 15-16 April, 2011.
- Suraj Poojari and U S Rao, "A Framework for Project Risk Management", International Conference on Advances in Civil Engineering (ACE-2011), KI University, Vijayawada, AP, Apr 2011.
- Aditya Kiran, Subramanain S and U S Rao, "Development of Neural Network Model for Prediction of Market Reversal" International Conference on Excellence in Management Practices (ICEMP), Kristu Jayanthi College, Bangalore, 15-16 Apr 2011.
- K R Raghavendra, Subramanian S and U S Rao, "*Risk Diversification Through Portfolio Selection Across Market*" International Conference Excellence in Management Practices (ICEMP), Kristu Jayanthi College, Bangalore, 15-16 Apr 2011.
- V Ravi Teja, Subramanian S and U S Rao, "Forecasting Volatility Index (VIX) using Neural Network" International Conference on Excellence in Management Practices (ICEMP), Kristu Jayanthi College, Bangalore, 15-16 Apr 2011.

Chapters contributed for Books

 Shashank Shah and A Sudhir Bhaskar (2010) "Environment Welfare – Organisational Initiatives", Emotional Intelligence and Leadership, Chapter 17, pp. 179-183, Excel Publishers, New Delhi. Shashank Shah and G S Srirangarajan (2010) "Sri Sathya Sai University: A Values-based System of Education", Case Study published in Indian Ethos and Values in Management, Edited by R. Nandagopal and Ajith Sankar R N, PSG Institute of Management, pp. 302-330, Tata Mc Graw Hill, 2010.

In-House Publications:

- Prof. R Kumar Bhaskar, Dr. Deepak Anand and Dr. Shashank Shah (2010) "Volume II Values-Based Business and Management: Insights from Ancient Indian Wisdom" - a Values-Based Management Series, Dept. of Management Studies, SSSIHL, 21 Aug 2010.
- Prof. R Kumar Bhaskar, Dr. Deepak Anand and Dr. Shashank Shah (2010) "Volume III Values-Based Business and Management: Conceptual Perspectives and Cases" - a Values-Based Management Series, Dept. of Management Studies, SSSIHL, 21 Aug 2010.

Projects & Dissertations Completed

MBA PROJECTS			
Name	Project Title	Supervisor	
Deepak Khanna	A study of Social Entrepreneurship Models in the World	Dr. B Sai Giridhar	
Goutam Gopi M	Strategies for Growth in Aviation sector (Low cost Carriers)	Dr. Deepak Anand	
Abhinav Bhorkar	Application of Data Mining, Techniques in Healthcare	Dr. Ramaier Sriram	
Aditya Prasanna P V K	Personality Profiles of Pirated and Non Pirated Software Users	Prof. R Kumar Bhaskar	
Ankit Rai Marwah	A study of Consumer Perception and Eating Habits Pertaining to Junk and Health Foods in India	Prof. Shiv R Pandit	
R Ashvanth	An Empirical Study of the Relationship Between Learning Organization Attributes and Select Outcome Variables in an Indian Business Context	Dr. N Niranjan	
M Bharath	Genetic Algorithm For Scheduling A Flexible Manufacturing System Environment	Prof. U S Rao	
Mandar S Chapnekar	Strategies for Effective Retirement Planning in India	Dr. B Sai Giridhar	
Sai Dinakar C	Productivity and Profitability in Banks		
C V Jayachandra Shastry	A Comparative Study of the Performance Review Discussion (PRD) Process and its Effectiveness in the Indian IT and Non-IT Sectors	Sri V K Thakar	
Sai Aditya Ch	Corporate Environmental Excellence: A Study of Select Corporate Organisations in India	Prof. V E Ramamoorthy	
C V Narayanan	Managing Human Resources in the IT Industry During Recessionary Times	Sri V K Thakar	
Debashish Mishra	A Primer for Currency Risk Management Program for small and Medium Scale Enterprises in India	Dr. Ramaier Sriram	
Ganesh Ganjawalla	Exploratory Study on Indian Organic Food Ecosystem	Sri Arvind Hejmadi	
Gurunarayanan B	Comparative Evaluation of Key Knowledge Management Process at Select It and Non-IT Organisations	Sri V K Thakar	
G Venkat Raghu	The Perceptions of Indian Consumers Regarding Price-quality Relationship and Consequent Purchase Behaviour for Durable and FMCG Products: A Study	Sri Arvind Hejmadi	
Arvind Kumar M	ar M Sports Marketing: An Analysis of the Relationship Between 'Sports Consumers' and Brands Associated with Sports		
Niraj N Golwalkar	Operational Risk Management in Banks	Dr. B Sai Giridhar	
Suraj Pujari A S	Project Risk Management	Prof. U S Rao	
Pranay Subba	Opportunities, Challenges and Strategies for Retail Sector in Rural India	Dr. Deepak Anand	

Renganathan K	Marketing Strategy Study of An Online Wealth Management Solution	Sri Arvind Hejmadi
Sachin Bharadwaj	Application of Data Mining Techniques for Prediction of Voluntary Employee Turnover	Sri V K Thakar
Sai Krishna Justa	A Study of the Implications of Growth Investment Strategies in the Indian Stock Market	Dr. B Sai Giridhar
M Sai Prashanth	Enterprise Value - A Study of Indian Companies	Dr. B Sai Giridhar
Sandeep K V	An Empirical Study of Fractal Structures in Major World Stock Markets	Dr. Subramanian S
Sankarnarayanan B	Impact of Price War on Customer Value Perception in the Indian Mobile Telecommunication Industry	Dr. Ramaier Sriram
Sathya Maharajh	aharajh The Role of Dimensions of Culture in Management of Modern Organizations	
Syed Babajan	Determinants of Foreign Direct Investments in India with Focus on Selected Sectors	Dr. Deepak Anand
Shriram S	An Interactive Financial Toolkit for Teaching Using <i>R</i> Language	Dr. Subramanian S
Sreekant V	Marketing Strategy For A Microcontroller in Automotive Electronics	Sri Arvind Hejmadi
Sai Srikant S	A Comprehensive Analysis of Rural BPOs: Developing Strategic Pathways for Sustained Profitability	Prof. Shiv R Pandit
Sudeep S Rao	Developing a model for a New Concept Health & Fitness Center	Sri Arvind Hejmadi
Suresh Kumar Dahal	Green Strategy as a Competitive Advantage	Prof. U S Rao
Ravi Shankar Tripasuri	Competency Mapping & Development Processes - Case Studies of Three Manufacturing Companies	Sri V K Thakar
Venkata Krishnan Sairam P	Challenges for Indian Public Sector Banks in Microlending to the Rural Poor	Dr. Deepak Anand

MBA (Finance) PROJECTS			
Name	Project Title	Supervisor	
G Aditya Kiran	Development of Neural Network Model for Prediction of Market Reversals	Prof. U S Rao / Dr. Subramanian S	
Aravind Sai S	Indian Investments Abroad in the Post-reform Period	Sri G Raghavender Raju	
Girik Dave	Business Correspondent Framework – Challenges Faced by Banks	Dr. Ramaier Sriram / Sri U Vasudeva Rao	
G Sai Sagar	An Empirical Study of the Optimal Hedge Ratio in Indian Futures Market	Dr. Subramanian S	
Gaurav S Kudtarkar	Bancassurance: Going the Extra Mile Towards Customer Satisfaction – A Bank Perspective	Sri V N Prakash Sharma / Sri U Vasudeva Rao	
Gautam Sonker	A study of Impact of International Financial Reporting Standards in India	Prof. V E Ramamoorthy	
Harish Ramachandran lyer	An Empirical Study of Hedging and Option Greeks in the Indian Market	Dr. Subramanian S	
Kapil Pahwa	Analysis and Design of Risk Management Structures for Corporate Currency Risk Management	Sri R Renju	
Raghavendra K R	Risk Diversification through Portfolio Selection Across Markets	Prof. U S Rao / Dr. Subramanian S	
N Sai Sundar	Exploring the Antecedents of Organizational Motives for Social Initiatives in an Indian Business Context	Dr. N Niranjan	
N V S Pawan Kumar	A Comprehensive Review of Clean Development Mechanism Projects' Performance in India	Prof. Shiv R Pandit	
Parashuram Vijaysai M	Impact of Application of value Investing Strategy in the Indian Stock Market	Dr. B Sai Giridhar	
P Kalyana Charan Teja	The Role of Emotional Intelligence in Indian IT/ITES Sector	Prof. R Kumar Bhaskar	
Rohit Kotal	Failure Prediction Using Financial Ratios: A study in Textile Industry	Prof. V E Ramamoorthy	
Sailesh Sridhar	Strategies Adopted by Indian Banks Before and after the Financial Crisis	Prof. U S Rao	
B Sai Prabhakar	Forecasting Interest Rates in India	Sri V N Prakash Sharma / Sri U Vasudeva Rao	
Amarpratap Sharma	A study of Efficiency of Microfinance Institutions in India	Sri R Renju	
Sapthagiri Sirisilla	A Study of Financial Performance of Budget and Small Sized Hotels – Indian Context	Dr. B Sai Giridhar	
Udit Kumar	Financial Viability of Generating Power Using Photovoltaics in India	Dr. B Sai Giridhar	
Vijay Sai Sharma	Credit Derivatives and Their Potential Usage in India – An Exploratory Study	Dr. Subramanian S	
V Ravi Teja	Forecasting VIX Using Neural Networks	Prof. U S Rao	

Appendix G Department of Commerce

Visiting Faculty

Name	Designation	Topic Course Covered	Duration
Mr C N Shastri	Former Managing Director, General Insurance Corporation of India, Chennai	Reinsurance Insurance	Jun 2010
Mr Samir Bhatia	Managing Director & CEO, Equifax Credit Information Systems, Mumbai	Credit Finance	Jul 2010
Mr N T Arun Kumar	(then) CEO, D & B Transunion, Chennai	Analytics Management	Jul 2010
Mr Vivek Gour	CEO, Airworks, Delhi	Aviation Industry	Aug 2010
Mr P V Murali	Management Trainee, Bangalore	Communication Management	Aug 2010
Mr Vinod Anto	Claims Executive, Tata AIG General Insurance, Bangalore	Export-Import shipping International Business	Aug 2010
Mr S Thiagarajan	Former Executive Vice-President, Tradeline Inc., Chennai	Foreign trade procedures International Business	Aug 2010
Mr M G Kodandaram	Supt. of Customs and Central Excise, Bangalore	Indirect Taxes – Export Initiatives International Business	Aug 2010
Mr S Rajagopalan	Chairman, Oceanload Group of companies, Bangalore	Customs/Port procedures International Business	Aug 2010
Mr Vijay Bhaskar	Regional Director (Karnataka), Reserve Bank of India, Bangalore	Financial Inclusion Banking	Sep 2010
Mr Madan Gulati	Marketing Consultant	Marketing & sales Marketing	Nov 2010
Mr Vivek Gour	CEO, Airworks, Delhi	Mergers and Amalgamations Finance	Dec 2010
Mr G Sriram	Ernest & Young, Chennai	IFRS Accounting	Dec 2010
Mr Vijayraghavan Krishnamurthy	Mumbai	Risk and return Investments	Jan 2011
Mr S Balasubramaniam	Sr. Director, IDFC, Chennai	Infrastructure financing Finance	Feb 2011
Mr A Balasubramaniam	CEO Birla Sunlife AMC, Mumbai	Mutual fund industry Investments	Feb 2011
Mr Vijay Santanam	Head, Forex Sales, Barclays Capital, Mumbai	Foreign Exchange Finance	Feb 2011

Journal Papers

- N Siva Kumar and U S Rao, "An Integrated Framework for Values Based Management Eternal Guidelines from Indian Ethos", International Journal of Indian Culture and Business Management, Vol. 3, No. 5, pp. 503-524, 2010.
- N Siva Kumar and Ravikumar Thyagarajan, "Values-Based Learning for Environmentally Friendly Living: A Study in an Institution of Higher Learning in India", Journal of College & Character, Volume 11, No. 4, Nov 2010.
- N Siva Kumar, "Intraday Information Assimilation in the Bombay Stock Exchange: A GARCH Approach", The IUP Journal of Applied Finance, Vol. 16, No. 6, pp. 5-16, Oct 2010.

- N Siva Kumar, "The Micro insurance Challenges: Insurance growth and development must be led by regulations", Asia Insurance Review, pp. 66-71, Jan 2011.
- N Siva Kumar, "Management of financial market scandals regulatory and values based approaches", Forthcoming in Humanomics – The International Journal of Ethics and Systems.
- N Siva Kumar and Sundara Krishnaswamy "Global financial crisis Dharmic transgressions and solutions", International Journal of Social Economics.

Conference Papers

 Deepak Anand and N Siva Kumar "A Corporate Leadership Model Based on Indian Ethos in the Face of Environmental Crisis", International Conference on Evolving Frontiers in Business-Society-Nation Interfaces at Indus Business Academy, Bangalore, 10-12 Mar 2011.

Appendix H Department of Economics

Visiting Faculty

Name	Designation	Course Covered Talk given	Duration
Prof. B L Pandit	Delhi School of Economics, University of Delhi	ECON-901 Monetary Theory and Policy	2 to 22 Jun 2010
Sri P Narayana Reddy	Former Lecturer, Govt. Degree College, Kurnool	STAT-101 Statistics	1 Jun to 31 Oct 2010
Prof. T C S R Sarma	Visiting Faculty	Statistics	1 Jun to 31 Oct 2010
Sri K V Raghavulu	Chief General Manager, NABARD, Hyderbad	I & II MA Agricultural Economy of India, Rural Development and expert lectures in selected areas	15 Jul to 31 Oct 2010
	NADAND, Hyderbad	III BA/BSc (Hons) Rural Development	1 Jun to 31 Oct 2010
Prof. Bhujang C Rao	National Institute of Public Finance and Policy, New Delhi	Subsidies; Concepts and Issues	14 Jul 2010
Prof. S S Sivakumar	IIT Madras, Chennai	ECON-903 / II MA Evolution of Economic Institutions, Systems Overview of the evolution of economic system / Institution in Europe	14 to 31 Aug 2010
		ECON 804 / II MA Ethics, Economy and Society	6 to 26 Feb 2011
Prof. Sureshchandra Babu	International Ford Policy Research (IFPRI), Washington DC, USA	II MA & M.Phil. / Ph.D students Sustainable Agriculture and Research guidance	15 to 17 Aug 2010
Sri G Mohanty	Head of Consumer insights and Analytics, EMEA, Citigroup, Dubai	ECON 901 Expert lecture on Sovereign wealth fund, Practical Banker with wide international exposure	22 to 23 Aug 2010
Dr. (Mrs.) Sarmistha Das	Faculty of Economics and Research Methodology, Eastern Institute for integrated learning in Management, Kolkata	ECON 602 / BA	2 Nov 2010 and 12 Nov 2010
Dr. Gopal Chengalath	Former Adjunct faculty, University of Phoenix, Arizona, USA	ECON 806, ECON 1006 / I MA & II MA	1 Sep 2010 to 31 Mar 2011
Dr. Ram P Aneja	Former Director of IRMA; former President of Indian Dairy Association; Team Leader of Oilseed Development & Specialist Policy, World Bank Agricultural Sector, Bangalore	ECON 1004 / II MA Retail Revolution in India	1 Nov to 31 Dec 2010
Mr Pat V Sonti	New Jersey, USA	ECON-805 (Elective-I-D) / I MA Five lectures on Energy Strategies for developing countries	5 to 15 Dec 2010
Sri Chandra Sekharan	Member, Appelate Tribunal Chennai	Intellectual property Rights	9 Feb 2011
Prof. V L Rao	GITAM School of International Business, GITAM University	ECON-1002 (three topics) / II MA International Economics and Finance, India – China comparison	11 to 17 Feb 2011

Workshops & Conferences Conducted

Title: "Water, Health Care and Economy" Dates: 18 to 19 June 2010 Venue: Department of Economics, SSSIHL, Prasanthi Nilayam Campus Keynote Address: Dr. Kalyan Ray, Special Advisor to the Under-Secretary-General, UN-HABITAT Valedictory Address: K Jairaj, IAS, Chairman, K.R.E.D.L and additional Chief Secretary to Govt. of Karnataka

Theme of the Workshop:

Water is the elixir of life, says Bhagawan Sri Sathya Sai Baba. The ancients in India firmly believed that the life on earth cannot be sustained without water and Dharma (Righteousness) on earth can be upheld only if rainfall does not fail. (Thirukkural 2:10).

Water is one of the precious natural assets that is essential for the economic, social, environmental and aesthetic health of mankind, and the overall health of all living beings as well – human, plant and animal – for which, both the quality and quantity of water, do matter a lot. Of late, the uses of water are limitless. Population growth and the rising living standards in both developed and developing countries have led to a rapid increase in the demand for water, while its supply in a given location remains constant. As a result, this resource has not only becomes scarce but it has to be produced, transmuted and distributed to the place of requirement in an appropriate quality and quantity. Naturally, water acquires the status of an economic commodity and economic principles can be applied for its efficient production and use.

In the past, modern governments tried their best to provide safe water to rural and urban populations and attempted to raise the water-use efficiency in different sectors of the economy. But it is really pathetic to observe and record that there are still a sizable population (17 per cent according to the UNICEF estimate for the Millennium Development Goals) that does not have access to safe water. Of late, the growing pollution due to aggressive industrialization, excessive use of scientific fertilizers and pesticides, unplanned urbanization and the emission of green house gases from large scale industries has not only endangered the fragile eco- system, but also resulted in climate change and affected the health of world population.

The discussions, approaches and policy measures suggested by the world bodies could hardly reach the tail ends of the world's poulation. Hence there is a growing consensus in the world intelligentsia towards a need for bold and innovative strategies within an overall framework of a value-based approach that can bring about a change in the attitude of people and governments, and can even prescribe a new water-ethics for a sustainable management of this precious resource. This cannot be achieved overnight. It calls for a planned approach towards the creation of a well-motivated society governed by human values and directed towards sustainable development. Bhagawan Baba has been emphasizing on this approach for the past several decades and the world is awakened today towards this direction.

This workshop on Water, Health care and Economy discussed several issues related to water and related these to the promotional activities (including health care) and finally arrived at a consensus opinion for an inclusive growth-oriented economy.

PROGRAMME

DAY 1: Fri 18 Jun 2010

Inaugural Session		
Name & Designation	Title of the Talk	
Prof U S Rao, Director, SSSIHL, Prasanthi Nilayam Campus	Welcome	
Students	Presentation of Bouquets	
Prof N Rajagopala Rao, Head, Dept. of Economics, SSSIHL	Introduction	
Prof. V Pandit, former Vice-Chancellor, Dept. of Economics, SSSIHL	Lighting the Lamp & Inaugural Address	
Dr. Kalyan Ray, Special Advisor to the Under-Secretary-General, UN-HABITAT	Keynote Address	
Prof. K L N Reddy, Department of Economics, SSSIHL	Vote of Thanks	

Session 1 – Invited Talks		
Name & Designation	Title of the Talk	
Dr. Mylswamy Annadurai, Senior Scientist, Indian Space Research Organisation (ISRO), Bangalore	Water on the Moon and Beyond	
Dr. R Venkatesan, Regional Co-ordinator, South Asian Seas Programme, South Asia Co-operative Environment Programme, Colombo, Sri Lanka	Water resources along the coast of South Asia	
Dr. V B Annigeri, Department of Economics, Centre for Multi-disciplinary Development Research, Dharwad, Karnataka	Health Care Financing In the Indian Context Some Stylized Facts	
Prof. A Anantha Raman, Professor, Dept. of Management Studies, SSSIHL	Sri Sathya Sai Anantapur Drinking Water Supply Project: Lessons Learnt	
Dr. Vellayutham Pachaimuthu, Programme Officer, United Nations Environment Programme, Bangkok, Thailand	Water and Environment: An Overview of Pollution from Land to the Sea	

DAY 2: Sat 19 Jun 2010

Session 2 – Invited Talks		
Name & Designation	Title of the Talk	
Dr. K V Raghuvulu, Former, Chief General Manager NABARD, Hyderabad	Water Resources – Minor Irrigation Development – Potential and Prospects in Andhra Pradesh	
Dr. K L N Reddy, Professor, Dept. of Economics, SSSIHL	Rural Water Supply in India: Ensuring Quality and Quantity Requirements	
Sri K Thillainayagam, Sri Sathya Sai Gokulam, Sri Sathya Sai Sadhana Trust, Prasanthi Nilayam	The Evolution of Drinking Water Supply in India	
Sri G Raghavender Raju & Prof. Vishwanath Pandit, Dept. of Economics, SSSIHL	Sri Sathya Sai Philosophy of Health Care	
Sri S Subramanian & Prof. G Balachandran, Dept. of Economics, SSSIHL	Water – Energy Nexus: Its relevance in Bettering the Performance of Indian Agriculture	

Session 3 – Invited Talks		
Name & Designation	Title of the Talk	
Dr. K E Seetharam, Director, Institute of Water Policy, Lee Kuan Yew School of Public Policy & Director, Global Asia Institute, NUS	Achieving SUCCESS in Water Utilities: Regional Perspectives	
Dr. Mandip Sandhu, Dept. of Management Studies, SSSIHL	Cost-effectiveness of water quality interventions for preventing Diarrhoeal disease in India	
Dr. R Gangadhara Sastry, Associate Prof., Political Science, SSSIHL	Politics of Water	
Dr. Mukesh Doble, Professor, Bioengineering and Drug Design Lab, Dept. of Biotechnology, IIT Madras, Chennai	Water treatment strategies	

Journal Papers

- G Raghavender Raju "*Education and Economic Development in India*", The Asian Economic Review, The Indian Institute of Economics, Vol. 52., No. 1., pp.157-168, April 2010.
- G Raghavender Raju and Ramakrishna Prasad M, "Management of Surplus Forex Reserves", Eternal India, Vol. 2, No. 9, pp. 91-104, June 2010.
- G Raghavender Raju and Ramakrishna Prasad M, "Foreign Exchange Reserves Management in India: Accumulation and Utilisation", Global Journal of Finance and Management, Research India Publication, Vol. 2, No.2, pp. 295-306, 2010.
- G Raghavender Raju and Aravind Sai S, "*An Analysis Of Foreign Direct Investment Inflows Into India,*" Eternal India, Vol. 2, No. 11, pp. 82-93, August 2010.
- G Raghavender Raju and Gopakumar K U, "Pattern of Consumption Expenditure in India", Eternal India, Vol. 3, No. 3, pp. 82-89, December 2010.
- Harish Mani, G Balachandran, C H Shah and V Pandit, "Indian Agriculture: A Critical Examination of Technological Change and Factor Substitution", Asian Economic Review, Vol. 52, No. 2, August 2010.
- G Balachandran, "Gandhian Model for Sustainable Forest Management", India Economic Review, Vol. VII, pp. 116-127, 31 Mar 2010.
- G Balachandran and Rajbhushan J Nayak, "*Missing Links in Financial Management*", Eternal India, Vol. 2, No. 11, pp. 94-109, Aug 2010.
- G Balachandran, "Gandhian Model for Inclusive Growth in India, Vol.3, No.2, pp. 53-67, Nov 2010.
- G Balachandran, "Kautilya's Model of Sustainable Development", Humanomics, Emerald Group Publishing Limited, UK, Vol. 27:1, pp. 41-52, 2011.
- B C Sutradhar, R Prabhakara Rao and V Pandit, "Inferences in Longitudinal Mixed Models for Survey Data", Journal of Indian Society for Agricultural Statistics, 64(2), pp. 177-189, 2010
- B C Sutradhar and R Prabhakara Rao "On Efficient Inferences in Familial Longitudinal Binary Models with Two Variance Components", Journal of Statistical Computation and Simulation, 25 Mar 2011.
- R Prabhakara Rao, B C Sutradhar and V Pandit "GMM versus GQL Inferences in Semi Parametric Dynamic Mixed Models", Brazilian Journal of Probability and Statistics (in press), 2011.

Conference Papers

- G Raghavender Raju, "Estimation of India's Consumption Function: 1970 2010", 47th Annual Conference of the Indian Econometric Society (TIES), Devi Ahalya University, Indore, MP, 6-8 Jan 2011.
- G Raghavender Raju and Vishwanath Pandit, "Sri Sathya Sai Philosophy of Health Care", All India Economics Workshop on Water, Healthcare and Economy, SSSIHL, 18-19 Jun 2010.
- Harish Mani, R Prabhakara Rao and V Pandit, "A Disequilibrium Regime-Switching Model for the Indian Manufacturing Sector: A Simulated Likelihood Approach", The International Conference on Development and Applications of Statistics in Emerging Areas of Science and Technology, also coinciding with the 30th Annual Convention of the Indian Society for Probability and Statistics, Department of Statistics, University of Jammu, Jammu, 8-10 Dec 2010.
- Harish Mani, R Prabhakara Rao and V Pandit, "Econometric Modelling of the Indian Manufacturing Sector in a Disequilibrium Framework", The 47th Annual Conference of The Indian Econometric Society (TIES), Devi Ahilya University, Indore, 5-8 Jan 2011.

- G Balachandran, "The Gandhian Model for Inclusive Growth in India", National Seminar on Social Welfare and Inclusive Growth and Development with Special Reference to India, Sri Ramakrishna Degree and PG (Autonomous) College, Nadyal, 25-26 Sep 2010.
- G Balachandran and S Subramanian, "Water- Energy Nexus: Its Relevance in Bettering the Performance of Indian Agriculture", All India Economics Workshop on Water, Healthcare and Economy, SSSIHL, 18-19 Jun 2010.
- R Prabhakara Rao, "Some Problems and Prospectus of Indian Women: Education and Health", National Seminar on Women Empowerment Through Self Help Groups in India, Dept. of Economics, Andhra University, Visakhapatnam, AP, 31 Aug 2010.

Books Published

 Harish Mani, G Balachandran, C H Shah, and V Pandit "Technological Change and Factor Substitution in Indian Agriculture", Lenka Jagannath, (Ed.), Current Issues in Indian Agriculture, Serial Publishers, New Delhi, 2010.

Projects & Dissertations Completed

M.A. (Economics) DISSERTATIONS		
Name	Dissertation Title	Supervisor
Dinesh Patil	Determinants of Interest Rates in India	Sri Harish Mani
Gautham Narendran	Performance of Regional Rural Banks in India: A Post Reform Analysis	Prof. K L N Reddy
Harshad Raju lyer	Monetary Policy Stance in the Recent Financial Crisis	Prof. N Rajagopala Rao
J Shrikant	Water and Energy Nexus in Indian Agriculture : The Need for Demand Side Management	Prof. G Balachandran
C Prasanth	India's External Debt Under the New Policy Regime	Sri. G Raghavender Raju
Rajesh Vaddi	Analysis of Indian Business Cycles by Using Wavelet Transform	Dr. R Prabhakara Rao
Sai Agyea Arora	Foreign Direct Investment in Indian Telecom Sector	Prof. T C S R Sarma
P G Sai Manohar	Elementary Education in Andhra Pradesh	Prof. K L N Reddy
Sai Vivek Walia	Monetary Policy Transmission in India : A Post Reform Analysis	Sri. G Raghavender Raju
Sathya Narayanan M	Investments of Life Insurance Corporation of India: An Analysis	Prof. G Balachandran
Sriram S	Impact of World Energy Prices on Agricultural Domestic Supports – An OECD Study	Sri Harish Mani
T Sai Kamal Chand	Measurement of Value at Risk in Indian Stock Markets	Dr. R Prabhakara Rao

Appendix I Department of English

Articles

- Dr. Arun Kumar Behera, "*Capitonyms in English vis-à-vis Pronunciation*", IATEFL-Voices, UK, p. 8, Aug 2010.
- Dr. Arun Kumar Behera, "*The unpredictability of the Sonority of English words*", The Mirror of Time, Kolkata, pp. 103-104, Aug 2010.
- Dr. Vivek Chauhan, "*Quick Modeling an airplane in Wings 3D*", Linux for You, pp. 40-48, Oct 2010.
- Dr. Arun Kumar Behera, "Pronounce Foreign Words the English way", Language in India, Mysore, pp. 436-438, Oct 2010.
- Dr. Arun Kumar Behera, "*Is Listening an Art?*", Language in India, Mysore, pp. 29-32, Dec 2010.
- Dr. Arun Kumar Behera, "*Understanding the Styles of Learning*", DLA News, Thiruvananthapuram, pp. 3-5, Jan 2011.
- Dr. Arun Kumar Behera, "Stress-Shift Leads to Class Conversion", Language in India, Mysore, pp. 212-214, Feb 2011.
- Dr. Arun Kumar Behera, "*A Phonological Study of Sambalpuri English*" Language in India, Mysore, 2010.

Books Published

- Dr. Arun Kumar Behera, "*The world of Portmanteau Words*" (ISBN: 9788182092488), Vijay Nicole, Chennai, 2011.
- Dr. Arun Kumar Behera, "You can speak English with 'Elan" (ISBN-13: 978-3838389172), Lambert Academic Publishing, Germany, 2010.

Appendix J Thursday Moral Classes - Sessions Campus wise

Prasanthi Nilayam Campus

Date	Торіс	Speaker	
3 Jun 2010	Video Show on Bhagawan		
10 Jun 2010	Meditation – A Video Film		
17 Jun 2010	Meditation – A Video Film		
24 Jun 2010	Bhavanjali		
1 Jul 2010	Ceiling on Desires	Sri P R Jayaraman, Dept. of Economics, SSSIHL	
8 Jul 2010	Quiz		
15 Jul 2010	Philosophy and Legacy of TATA's – Video Show		
22 Jul 2010	Bhagawan's Hadshi Visit – A Video Film		
29 Jul 2010	Avatar: Concept	Prof. M Veerabhadraiah, Dept. of Telugu, SSSIHL	
26 Aug 2010	Swami (Bhagawan) is our greatest strength	Dr. David Cornsweet, Visiting Faculty, Dept. of Mathematics & Computer Science, SSSIHL	
16 Sep 2010	Communication Skills and Public Speaking	Sri K Anil Kumar, Dept. of Biosciences, SSSIHL	
4 Nov 2010	My earlier days experiences	Sri B N Narasimhamurthy, Warden, Brindavan Campus, SSSIHL	
11 Nov 2010	Enlightened Leadership	Prof. Peter Pruzan, Visiting Faculty, Dept. of Mathematics & Computer Science, SSSIHL	
25 Nov 2010	Environment and Spirituality	Dr. Siva Kumar, Visiting Faculty, Dept. of Biosciences, SSSIHL	
2 Dec 2010	Elocution Competition		
9 Dec 2010	Christmas Carols practice		
16 Dec 2010	Simplicity: The Estranged Reality	Sri R Mahesh, II-M.Sc.(Phy.), SSSIHL	
20 Jan 2011	Prize Distribution		
27 Jan 2011	Swami Vivekananda: His Ideas for Today's Youth	Prof. R Kumar Bhaskar, Dept. of Management Studies, SSSIHL	
17 Feb 2011	Vidya Vahini – talks by students		
24 Feb 2011	Vidya Vahini – talks by students		
10 Mar 2011	Vice-Chancellor's Address		

Anantapur Campus

Date	Торіс	Speaker
3 Jun 2010	Laksharchana	
10 Jun 2010	Talent Show by the Freshers	
17 Jun 2010	17 Jun 2010 The Balancing Act	
24 Jun 2010	A Competition on Classical Vocal Music (both Carnatic and Hindustani)	
1 Jul 2010	Video Show Presentation on Cosmic Energy and Meditation	Ms. Suma Rao, Dept. of Commerce, SSSIHL
8 Jul 2010	Mono-action Competition	
15 Jul 2010	Responsibility of a Sai Student	Mrs. Kokila Kaur, Mrs. Malini Srinivas, SSSIHL Alumnus

22 Jul 2010	Civil Services Examinations	Ms. Charu Sinha, DIG, Anantapur
29 Jul 2010	Dharma and its Practical Implication with Special Relevance to Mahabharata	Prof. Brahmananda, SKU, Anantapur
12 Aug 2010	Women the Custodians of Indian Culture and Spirituality	Dr. (Mrs.) Jayanthi Sundaram, Dept. of English, Pondicherry
19 Aug 2010	One Act Play Competition	
24 Aug 2010	Group Dance Competition	
9 Sep 2010	A Programme on "Significance of Ganesh Chaturthi"	
16 Sep 2010	"The Great Women of the World," series of Radio Sai Programme was played on Nobel Laureate Muta Vangari Mathai	
4 Nov 2010	A Light Music Competition	
11 Nov 2010	11 Nov 2010 Special Quiz Programme – Organized on Life, Mission, Vision and Teachings of Bhagawan	
27 Nov 2010	An Instrumental Music Competition	
2 Dec 2010	Fancy Dress Competition	
09 Dec 2010	A variety programme of short talks, classical dance, instrumental and vocal music, mono-action etc. was organized, conducted and engaged by the staff members	
16 Dec 2010 A classical dance competition		
23 Dec 2010	An elocution competition on the topic 'Ethics and National Interest' in three languages – English, Hindi and Telugu was held	

Brindavan Campus

Date	Торіс	Speaker
03 Jun 2010	Role of Students in Sai Mission	Sri Anil Gokak, Ex-Vice-Chancellor, Sri Sathya Sai Institute of Higher Learning Prasanthi Nilayam
10 Jun 2010	The Omniscience, Omnipotence and Omnipresence of Swami (Bhagawan)	Sri Vijay Bhaskar, Regional Director (Karnataka) Reserve Bank of India
08 Jul 2010	Rules for Revolutionaries.	Sri P Chandil Kumar, Chief Catalyst. G K consultants
15 Jul 2010	Experiencing Divinity	Mr. Jeremy Hoffer, Teacher, Denver, Colarado, USA
29 Jul 2010	Governance and Values	Sri K Jairaj, IAS, Additional Chief Secretary to the Govt. of Karnataka, Dept. of Rural Development & Panchayath Raj
12 Aug 2010	What are we learning? What are we achieving?	Prof. N S S Narayan, Economist, Indian Statistical Institute
26 Aug 2010	Preparing for the Future	Sri R R Nair, Human Resources Professional, Unilever
09 Sep 2010	Working with a Global Mind Set	Dr. M Krishna, Sr. Vice-President Honeywell
25 Sep 2010	Psychiatry and Spirituality	Dr. Samuel Sandweiss
23 Dec 2010	The Divine Guide	K Srinivas Raghavan, Sai Youth, USA
27 Jan 2011	Living with God is Education	Mr. Sai Subramanian, Alumnus
10 Feb 2011	Values based Education	Prof. N Jaishankar, Former Vice-Chancellor, Kanchi University
17 Feb 2011	Counselling – The Sai way	Mr. Umesh Rao, Chairman, Lotus Energy System
24 Feb 2011	Enlightened Leadership	Prof. Peter Pruzan, Professor Emeritus, Copenhagen Business School

Appendix K NAAC 2011 Certificate of Accreditation & Quality Profile

राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद विश्वविद्यालय अनुदान आयोग का स्वयत्त संस्थान NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL An Autonomous Institution of the University Grants Commission Certificate of Accreditation The Executive Committee of the National Assessment and Accreditation Council on the recommendation of the duly appointed Peer Jeam is pleased to declare the Sri Sathya Sai Institute of Higher Bearning Prasanthi Xilayam, Dist. Anantapur, Andhra Pradesh as Accredited with CSPA of 3.63 on four point scale al A grade valid up to January 07, 2016 HARemperi Director Date : January 08, 2011 EC/54/RAR/076



Appendix L SSSIHL 29th Annual Convocation

Introductory Address by Prof. J Shashidhara Prasad, Vice-Chancellor, SSSIHL

I offer my most humble and loving pranams at the lotus feet of our beloved Bhagawan and pray to invoke the blessings of our Lord and Divine Master.

Aum Saiswaraaya Vidmahe Sathya Devaaya Dheemahi Tannah sarvah prachodayaath

Most Revered Chancellor, Honourable Prime Minister of India Prof. Manmohan Singh, His Excellency the Governor of Andhra Pradesh, Sri E S L Narasimhan, Honourable Chief Minister of Andhra Pradesh Sri K Rosaiah, His Excellency the Governor of Punjab Sri Shivraj Patil, Honourable Union Minister of Steel Sri Veerbhadra Singh, Honourable Justice Bhagwati, Sri Ratan Tata, Distinguished guests, Former Vice-Chancellors, Members of the Trusts, Board of Management, and Academic Council, Members of the Faculty, Graduates of the year, students of the University and my dear Sai brothers and sisters,

I deem it a great privilege to extend a most cordial welcome to all of you to the twenty-ninth Convocation of Sri Sathya Sai Institute of Higher Learning.

Sri Sathya Sai Institute of Higher Learning was founded by the Avatar of the Age Bhagawan Sri Sathya Sai Baba as one of the instruments of His divine Mission. The vision of Swami in establishing Institutions of higher learning is exemplified by the following quote:

"This Institution has not been established just to prepare you for earning degrees. The main purpose is to help you cultivate Self-knowledge and Self-confidence, so that each one of you can learn Self-sacrifice and earn Self-realisation. Teaching you the University curricula, preparing you for the University examinations and awarding you University degrees – these are only means employed for the end, namely – spiritual uplift, Self-discovery and social service through love and detachment. Our objective is to provide the youth with an education, which while cultivating their intelligence, will also purify their impulses and emotions, and equip them with the physical and mental disciplines needed for drawing upon the springs of calmness and joy that lie in their own hearts. Our hope is that by your lives, you will be shining examples of spiritual awareness and its beneficial consequences to the individual and society."

I have the pleasure and good fortune to welcome you today to this august Institution of higher learning.

It is indeed our good fortune that we have in our midst a person of the eminence of Prof. Manmohan Singh, Honourable Prime Minister of India, who is one of the most brilliant academicians and economists of our times as the Chief Guest. After obtaining his higher education in Punjab University and Cambridge and Oxford universities, he had a successful academic career in higher educational institutions of repute. He was holding the position of Chairperson of University Grants Commission, when he was inducted as Union Finance Minister in the early nineties at the time, the country was experiencing economic crisis. With his able guidance and the active support of the then Prime Minister, he was able to steer the economy out of the red and in particular the crisis of foreign exchange reserve. Dr. Manmohan Singh has brought dignity to all the positions he held during his professional career as Professor, Governor of Reserve Bank of India, Deputy Chairman of the Planning Commission of India, and Economic Adviser to Prime Minister. He has instilled a sense of pride to the academic community by his personal and professional achievements. Dr. Singh has established to be the most qualified politician and leader in the world. He has proved to be a tough and tenacious leader in guiding the destiny of the country and the best example of simple living and high thinking. We are grateful to him for having made it convenient to be the Chief Guest in spite of his busy schedule in connection with the Parliament session and other preoccupations.

The Values based Integral Education propounded by Bhagawan Baba is referred to as Educare – the dictum of which is education is for life and not for living. This model lays stress on purifying the impulses and emotions and equip the students with physical and mental disciplines needed for drawing upon the springs of calmness and joy that lie in their hearts and that they will be shining examples of spiritual awareness and its beneficial consequences to the individual and society in addition to cultivating their intelligence and knowledge in formal subjects.

The Sai experiment has stood the test of time as evidenced by the impact made by the students who have passed out of the portals of this great Institution of Bhagawan. A large number of letters of appreciation are being received from the employers, CEOs and Administrators regarding their integrity, work ethics, concern for society and environment, dealing with different types of people, working in teams, coolness in taking decisions, time management, patience and perseverance, and leadership. I am very happy to highlight that over the past five years, 16% percent of the students who have completed postgraduate courses have passed in GATE/UGC-CSIR NET Examinations which is much above the national average.

With the blessings of Bhagawan, the University is planning for enhancing the research facilities and thereby research activities by attracting the talent from across the country and abroad. The research to be undertaken here will be socially relevant and community oriented. With the presence of two super speciality hospitals and two general hospitals, some of the thrust areas which are identified include Nano science, drug design and drug delivery, biomedical engineering, sensors, smart materials, structure and function of proteins, protein-protein interaction and epidemiological studies. I hope it will not be out of context if I take the liberty to quote from the Convocation address of the Honourable Prime Minister at the 14th Convocation of this Institute:

"Blessed indeed are the students who have had the privilege of going through an education programme which combines deep appreciation of the method of modern science and technology and the ancient Indian knowledge and wisdom accumulated over the centuries. This type of education can be a powerful means of self-perfection and social redemption."

The Institutions built by Bhagawan Baba are fortunate to have His loving guidance and counselling day in and day out in the training of messengers of transformation. I pray Swami to bless each one of us to play our role, however small it is, in His mission of redemption of the world.

I have great pleasure in welcoming you all and our Chief Guest in particular to this Convocation.

Chief Guest's Address by Dr. Manmohan Singh, Prime Minister of India

I deem it a great honour to be here at this 29th Convocation of the Sri Sathya Sai Institute of Higher Learning. That the Convocation coincides with the 85th birthday of Sri Sathya Sai Baba makes it even more special. In conveying my greetings to Baba, I hope and pray that he may continue to be an inspiration for us for many many years to come.

I was last here for your 14th Convocation in 1995. The changes that have taken place since then are truly phenomenal. Your university has grown enormously and you have diversified your scope of learning. In place of the more modest facilities 15 years ago, I see an international township and I see people from all over India and all parts of the globe together at this institution making it unique. I see a medley of races and cultures. I see in particular a microcosm of India, a nation that celebrates its diversity and welcomes all. In that sense, Prasanthi Nilayam is reflective of one of the central ideas of India, Unity in Diversity. As Indians, we celebrate this concept and cherish the multiplicity of our cultures, our creeds, and our colours. It is what makes our great nation unique. It is what gives strength to our democratic values of pluralism, liberalism and secularism.

Yours is a relatively young university but it has already established its place as a centre of excellence. What makes it so unique is that it also shows us a new way forward and adds a new dimension to the quest for learning. To paraphrase Baba's words, this is not a place simply to earn degrees. Its main purpose is to help students cultivate self-knowledge and self-confidence so that each student learns self-sacrifice and self-realisation.

This institution has consciously sought to amalgamate a system of formal education with wholesome development of character. Baba's belief that the true meaning of education is not knowledge in itself but knowledge in action is one that commands our respect. It is one that we should all share. At this institution, you seek to combine the absorption of knowledge and skills – what is learnt in courses and for degrees – with the ideas that have come to us as the wisdom of the ages, and the ideas of Sathya, Dharma, Shanthi, Prema and Ahimsa, that should govern our daily lives. You endeavour to structure your curricular programmes and project work with an awareness of duty and social responsibility.

I venture to say that this is in harmony with the great philosophical traditions that have come down to us through the millennia. India has a great heritage of learning, both spiritual and secular. Indeed one of the hallmarks of our civilization has been its ability to combine matters of philosophy and faith with those of science and rationalism. Learning has straddled both the material world and the metaphysical world. Thus, the Indian tradition, in its fullness over the centuries, has delved into the meaning of the universe just as much as the working of the universe and on the purpose of human existence just as much as the organization of human society.

In these aspects, the modern world is no different. But as the human condition has changed, for the better in some ways and for the worse in others, I see a greater need for both academic excellence as well as the values and attitudes that you are cultivating and emphasizing here. The spirit of scientific inquiry has given us vastly greater understanding of the world and the universe. Modern societies and economies have found the ability and understanding to provide better livelihoods for our people and improve the quality of life for millions who are or were once mired in poverty. At the same time, accelerating technological and social change has put new pressures on individuals and society leading to great and urgent challenges. Today, we cannot succeed without providing value based education to our youth. In this endeavour, you are breaking new ground; others would do well to follow in the path that you have charted, to make both learning and character building universal in the realm of education.

As India modernizes, grows and plays a larger role in world affairs, we will need an ever-expanding pool of human resources, the quality of which will have to be second to none. We will need global leaders in education, entrepreneurship, technology and management. We are a nation of young people. We must create systems and opportunities where they will acquire the skills to enable them to excel not just in India, but also increasingly on the global stage.

Our scientists and technicians have already achieved renown in several areas. Information technology, the pharmacological sciences and biotechnology, space and nuclear technology easily come to mind. If we are to sustain and expand this, it is vitally important that our universities become more prolific in research on a much larger scale. At one level, of course, our university education needs to shape students who will meet the needs of a modern, rapidly growing economy and a fast changing society.

At another, we are now emerging in the forefront of the innovative world and we need researchers and inventors who will create the technologies and systems of the future.

I am glad to see that the emphasis on scientific research in this university has increased over the years and that you are promoting high quality research in interdisciplinary areas such as drug designs and drug delivery systems, structural biology, nano materials and biomedical engineering. However, we shouldn't restrict ourselves to the physical world. Research in the humanities, in history, literature, philosophy, economics, in the realm of culture and ideas, is equally important.

No society can be complete without an understanding of itself, its past and its present. That is what the humanities help us illuminate. Our thirst for vibrant research institutions that produce ever growing numbers of Ph.D.'s in diverse areas should be unquenchable.

I am also deeply impressed by the work that is being undertaken here to help the people of the surrounding areas. A water supply scheme that Baba has undertaken has helped no fewer than 731 villages in drought-prone Anantapur district. Another scheme has provided reliable water supply to some 500 hamlets, mostly inhabited by tribal people in East and West Godavari districts. This achievement is all the more commendable since the areas are in deep forests and are affected by Naxalite violence. I see that the Super Specialty Hospital at Prasanthi Nilayam, which came into existence in 1991, continues to provide much needed facilities in diverse areas of medicine. I understand that another Super Specialty Hospital has been built at Whitefield, Bangalore with more modern equipment. Two General Hospitals are also functioning at Prasanthi Nilayam and Whitefield, and I have been told about a Mobile Hospital that takes medical services to 100 surrounding villages, carrying sophisticated medical care to the very doorsteps of the villagers.

What is heartening is that all these services -- water supply, education, medical and health -- are rendered totally free based on Baba's commitment that the basic requirements of every civil society should not be a burden on recipients. This is a commendable commitment, and a determination to alleviate the sufferings of the poor and the needy with a spirit of giving that is unfortunately all too rare. Such benevolence and philanthropy should be an example to the many in our country who have the means, but are yet not able to emulate it.

It is also commendable that the Sri Sathya Sai institute of Higher Learning is forging backward linkages with your sprawling school system that extends to almost 100 Sri Sathya Sai schools and about 3 Lakh Bal Vikas children who receive the benefit of Baba's ideas.

Before I conclude I want to say a few words to the students who have had the good fortune to spend these important years of their lives here. You are graduating today and doing yourselves, your families, your teachers and your university proud. You have had the privilege of a wholesome and good education. You have imbibed learning, knowledge and experience in a unique environment. I have no doubt that you will face challenges as you make your way into the outside world, and I have no doubt that you will overcome them and find success in whatever you choose to do.

Yet, as you venture out into the world at large, it is important that you keep in mind the many around you who have not had the privileges that you have enjoyed. You have been exposed to fine minds. You have had access to excellent libraries. You have imbibed time-tested values. Above all, you have been able to think for yourselves, to achieve your full potential and you have the opportunity to become better human beings. But your lives will not be complete or successful if you do not reach out in whatever way you can to those less fortunate than you. As you chart your course in life, truly give thought to and do what you can to help those who have been less fortunate and less privileged than you. I am not talking about charity; I have in mind the idea of sharing, of giving of yourselves, your abilities and skills, to lend a helping hand where nobody else stands ready. I congratulate you on your graduation and wish you well in the future.

May God bless you all.

Benedictory Address by Bhagawan Sri Sathya Sai Baba, Revered Chancellor, SSSIHL

Students, Embodiments of Love!

All of you want Swami to say at least a few words. You feel, "How nice it would be if Swami speaks for a few minutes"! However, I don't want to say anything about the present system of education.

This land of Bharat has given birth to many noble women like Savitri who brought her dead husband back to life; Chandramati who extinguished wild fire with the power of truth. Sita who proved her chastity by coming out of blazing fire unscathed and Damayanti who reduced an evil-minded hunter to ashes with the power of her chastity. (Telugu Poem)

At first, Chandramati was fear-stricken by the raging forest fire. She along with her husband and son was surrounded by flames of wild fire. Nobody could say how they were all of a sudden surrounded by the raging flames. This, in fact, was a divine play. Ultimately, when Chandramati utilised her power of truth and chastity the fire was extinguished in a trice. As Chandramati prayed, there was a heavy downpour. On one side there was a raging fire and on the other side started a heavy rain, and ultimately the fire was completely extinguished.

Savitri was also endowed with great power of penance and chastity. She could even stop Yama (Lord of Death) from taking her husband's life. She argued with Yama and told him, "The life of wife depends upon her husband and that of the husband on his wife. One cannot live without the other. So, if you want to take my husband's life, take my life also. Or else, spare his life. We are not separate from each other. It is my primary duty to safeguard my husband's life". Ultimately, Lord Yama had to revive Savitri's husband.

Is there any country or region in this world where one can find a woman like Savitri who could bring her dead husband back to life? Such divine power is latent in every human being. Man should draw this power from within himself, which he can utilise not only for himself but for others also.

During those times, wife considered her husband as her very life and vice-versa. But, unfortunately, the situation is not the same today. This sacred land of Bharat is surrounded by the seven seas. In this land, many women like Damayanti, Savitri performed intense penance. They are all women of great chastity. But today we do not find such women of great chastity.

A Pativrata (chaste woman) is one who considers her Pati (husband) as her very life and depends entirely on him. A Pativrata is one who does not talk back to her husband. There will not be even a little defect in her. She does not have any selfish desires. All that she does is for the sake of her husband. She would not even look at any male other than her husband. Only such a woman can be called a true Pativrata. But modern ladies do not follow their husbands. They do not listen to what their husbands say. When the wife follows her husband and the husband follows the wife and both lead a life of harmony, then the entire country will attain peace and prosperity. It is due to the differences between the husband and wife and disunity in the family that the country is subjected to one trouble after the other. Both husband and wife should understand each other and adjust with each other.

A Pativrata who strictly obeys the command of her husband can do anything. If she prepares food for her husband with saline water of the ocean, it will be changed into sweet water. When the wife obeys the command of her husband and the husband fulfils the desires of his wife, then the future of the family will be safe and secure. If they act contrary to this, the family will be subjected to great suffering. Both husband and wife may conduct themselves in a decent manner

when they are in their house. But as soon as they step out of the house, they indulge in all sorts of evils. If there is no unity and harmony between wife and husband, there is no use of undertaking spiritual practices like Japa, Dhyana (chanting, meditation), etc.

When the wife follows her husband and the husband follows his wife, there is great happiness in the family. Strive to achieve such unity and harmony in your family. Then, your entire life will become happy and peaceful without any worries whatsoever. All your worries are of your own making. They are not given by God. God is not at a distant place. He is immanent in man. You should have unwavering faith in this truth. Then there will be happiness not only in the individual but also in society. Pure heart is the temple of God. Therefore, develop love in your heart. You will attain everything in life.

There will be peace and happiness in the family when both husband and wife share the same views. A Pativrata is one who has no other thought of anybody or anything except that of her husband. A woman who leads her life with such unflinching faith in her husband can achieve everything in her life. When both follow different paths, then there can be no peace and happiness in the family. You should not allow your mind to waver this way and that way. You should totally focus it on God. Contemplation of God is the basis to achieve unity and harmony in the family. When the wife prays to God, the husband will become a good person.

Chaste woman of yore like Sita and Damayanti had single-minded devotion towards their husbands. Sita was held captive in Lanka for ten months. But never even once did she look at the face of a male person. She spent all her time in the contemplation of Rama, sitting under a tree in Ashoka forest. She did not move out at all. As she was such a great chaste woman, she could prove her purity through Agni Pariksha (test of fire).

God is only one, not two. He is the indweller of your heart. If you constantly contemplate on Him, you will also become God. Whomsoever you come across, consider them as the embodiments of divinity. That is the principle of divinity. On the other hand, if you follow the vagaries of your mind and move about arbitrarily here and there, how can you become God? When you go to your college, why should you look here and there and indulge in vain gossip? Focus your mind on the purpose for which you have come. Do your work without developing unnecessary contacts. Look after your family. There is nothing wrong in this. Nobody tells you to give up performing your worldly duties. Live in the world and perform your duties. But always have divine feelings.

Many people go to places of pilgrimage like Badrinath, Amarnath, Kedarnath, Bhadrachalam, Tirupati, etc., in search of God. They think that they can find God at such places. Oh foolish man! God is not somewhere else. In fact, you yourself are God. God is present in all. God is only one and He is present wherever you look for Him. He is in you, with you, above you, below you. God is beyond birth and death and indwells every being in the form of Atma. He is present in all human beings right from a child to an old man. The same God is present in an ant, a mosquito and in all birds, beasts and animals. Therefore, do not go in search of God here and there and trouble yourself.

Wherever you see, God is present there. Whomsoever you see, there is God in him. God has no different form. All forms are His. That is why the Veda declared, Sahasra Seersha Purusha Sahasraksha Sahasra Pad (The Cosmic Being has thousands of heads, eyes and feet). When you sit for meditation, your mind wanders here and there. You should not allow the mind to waver and keep it always steady. When you go to a seashore, you will hear the waves making the sound of Om! When you concentrate on that sound, you will forget everything.

Since you are all young, I wish to emphasise this point. Do not develop opposition or differences among you. Controversies give rise to many troubles. These days some people marry not once, not twice, not thrice, but even four times. This is not a good practice. Be single-minded. Even if somebody makes you angry, do not fight with him. Understand that by fighting with others, you actually harm yourself. Control your thoughts. This is the quality of a truly educated person. This is called Educare. Along with education, you should also have Educare. When you have Educare, you will have everything – health, happiness, peace and prosperity. This is what I want you to understand. Everything will become good to you if you make your heart pure. At least from today onwards, take to the right path. If somebody tries to put you on the wrong path, do not pay any heed to him. Even if such a person comes to you and tries to start a conversation with you, do not even look at his face. Just ignore him and go away from him.

Students should live with unity in all matters. But today unity has disappeared altogether. On the other hand, enmity is on the rise. When one student in the class secures high marks, other students start feeling jealous of him. This should not be there. Because jealousy gives rise to hatred. There will be further divisions if politics enter the educational institutions. Therefore, all students should live with unity and solidarity.

You should achieve unity. There is no unity in the youth today. First and foremost, the youth should come forward to help each other. The end of education is character. If your character is good, then you can achieve anything in life. You may think you have won gold medals, acquired high degrees and achieved name and fame. But if you lack character, these degrees are merely a piece of paper. It is most essential for you to safeguard your character. Only such a person is a truly learned one.

When Ravana was taking Sita away to Lanka, she dropped all her ornaments in a bundle which fell on a mountain. Rama and Lakshmana, while going in search of Sita, were shown this bundle by Sugriva. Rama asked Lakshmana to see the ornaments and identify if they belonged to Sita. Then Lakshmana replied, "Brother! I never looked at the face of Sita and therefore I do not know whether these ornaments belong to her or not. I can recognise only the anklets as I have seen them while offering my obeisances to her feet everyday".

Sita, Rama and Lakshmana lived together in the forest for almost fourteen years. But not even once did Lakshmana look at the face of Sita. What a pure-hearted person Lakshmana was! Whenever he had to talk to Sita, he talked to her with his head bent down. As he was such a noble person, he could enjoy the wealth of proximity of Rama. When Lakshmana fell unconscious in the battlefield, Rama said, "If I search, I may get a wife like Sita but not a brother like Lakshmana. I can bear the separation from Sita, but not from Lakshmana". Such was the strong bond of love between Rama and Lakshmana.

Students also should develop such unity considering all their brothers and sisters. All are human beings. All are the children of God. Therefore, you should live with unity without giving room to any differences. This is My message for you today.

List of Gold Medallists, 29th Annual Convocation, SSSIHL

As a further extension of the holistic evaluation system, a special award is instituted for the students with extraordinary performance across all aspects of personality development – academic, co-curricular, sports and games and discipline.

These Gold Medals have been instituted by former Vice-Chancellors of the University and other eminent personalities, national figures and heads of state like Presidents of India - Dr. Shankar Dayal Sharma and Dr. A P J Abdul Kalam.

The following 23 students were awarded Gold Medals for excellence in their respective subject areas.

No.	Gold Medal	Awardee
1	Sri Sathya Sai All-Rounder Gold Medal	Sai Prabhakar Balantrapu
2	Sri Burgula Ramakrishna Rao Gold Medal	Sri Devarajan. A, for Distinction in M.Tech. (Applied Optics)
3	The President of India, Dr. A P J Abdul Kalam Gold Medal	Sri Sai Hareesh A, for Distinction in M.Tech. (Computer Science)
4	The President of India, Dr. Shankar Dayal Sharma Gold Medal	Sri Hemant Changkakoty, for Distinction in MBA
5	Justice P N Bhagwati Gold Medal	Sri Kamath Akshay Dinanath, for Distinction in MBA (Finance)
6	Dr. V K Gokak Gold Medal	Sri Gopakumar K U
7	Dr. Somnath Saraf Gold Medal	Sri Divakara S S Murthy Uppu, for Distinction in M.Sc. (Chemistry)
8	Dr. K Hanumanthappa Gold Medal	Kum Sutapa Pattnaik, for Distinction in M.Sc. (Biosciences)
9	Prof. S Sampath Gold Medal	Sri Naveen M, for Distinction in M.Sc. (Mathematics)
10	Dr. G Venkataraman Gold Medal	Sri Girish Sharma, for Distinction in M.Sc. (Physics)
11	Sri A V Gokak Gold Medal	Sri R Srinivasan, for Distinction in B.Sc. (Hons.) Chemistry
12	Prof. Vishwanath Pandit Gold Medal	Sri Ratheesh K, for Distinction in B.A. (Hons.) Economics & B.Sc. (Hons.) Economics

13	Prof. J Shashidhara Prasad Gold Medal	Sri Shah Nishitkumar Kanchankumar, for Distinction in B.Com. (Hons.)	
14	Smt. Eswaramma Gold Medal	Kum Sunitha Vaidya, for Distinction in M.Phil.	
15	Sri R V Janakiramaiah Gold Medal	Kum Lalitha Sarma R, for Distinction in M.A. (English Language & Literature)	
16	Smt. M Venkamma Gold Medal	Kum S Sivaleela, for Distinction in M.A. (Telugu Language & Literature)	
17	Smt. A Parvathamma Gold Medal	Kum Sudha S, for Distinction in M.Sc. (Home Science)	
18	Sri Shankarrao B Chavan Gold Medal	Kum Chitra Devi M, for Distinction in B.Ed.	
19	Smt. J Eashwari Bai gold Medal	Kum Neetu Gupta, for Distinction in B.A.	
20	Smt. R Sundari Kondala Rao Gold Medal	Kum A Meghamala, for Distinction in B.Sc. (Hons.) Physics	
21	Smt. Vijayalakshmi Gold Medal	Kum P R Shruthi, for Distinction in B.Sc. (Hons.) Mathematics	
22	Sri K Chandrasekhar Gold Medal	Kum Priyanka G, for Distinction in B.Sc. (Hons.) Biosciences	
23	Smt. Saraswati M Gold Medal	Kum T Usha Rani, for Distinction in B.Sc. (Home Science)	

List of Doctoral Degree Awardees, 29th Annual Convocation, SSSIHL

This year, in addition to the Gold Medallists, there were seven students who earned their Doctoral degrees. Their Ph.D.'s were in a range of subject areas in different Academic Departments of the Institute.

Name	Department	Area of Research	Research Supervisor
Miss Rajni Bhandari	Chemistry	Studies on the Major Sources of Fluoride and Aluminium in Anantapur District and Potential Defluoridating Agents	Prof. Chelli Janardhana
Ms. Deepa Seetharaman	Physics	Precision Electron-Gamma Spectroscopic Studies on some odd mass deformed Nuclei	Prof K Venkataramaniah
Sri J Krishna Kiran Kumar	Chemistry	Computational Studies of Organic Molecules and Analytical Investigation of their Interactions with DNA and Optical-transmission studies of Nickel Sulfide nanoparticles	Prof. Chelli Janardhana
Sri S Jagdish Chandra	Physics	A Study of Photo-induced Anisotropy and Nonlinearity in Bacteriorhodopsin thin films and Azo- violet	Dr. S Siva Sankara Sai
Sri V Sai Muthukumar	Physics	Studies on Nonlinear Optical Properties of Some Novel Nanostructures for Optical Power limiting Applications	Prof. K Venkataramaniah
Sri Dandamudi Rajesh Babu	Chemistry	Chemical and Nutraceutical Studies on Pongamia Pinnata (L) Pierre Flowers and indigenous edible Mushrooms and their Mutants	Dr. G Nageswara Rao
Sri Shashank Shah	Management Studies	Corporate Stakeholders Management: A Study of Contemporary Practices for Stakeholder welfare & Development of an Implementation Framework	Prof. A Sudhir Bhaskar

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Dear students! Be like The star which never wavers from the crescent but is fixed in sleady faith. When The sun is over your head: There will be no shadow; so too when faith is sleady in your hearl; it should not cast any shadas of doubt. Do not lake ill of others; lake 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 some one, do not mix with him. Grace is the sun light which will riper The fruit; sadhana is The sap which rises from earth Both are needed by the The in order that it may yield fruit. With Blessing Bak.

"The end of education is Character." Bhagawan Sri Sathya Sai Baba





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