



SRI SATHYA SAI INSTITUTE OF HIGHER LEARNING

(Deemed to be University)

ANNUAL REPORT 2011/12



“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





VICE-CHANCELLOR'S MESSAGE



Prof. J Shashidhara Prasad
Vice-Chancellor, SSSIHL

It has been a year and a half since our beloved Swami, the Divine Chancellor, left His mortal coil to assume His infinite cosmic form. During this time, there was an element of scepticism in some sections of society about the sustenance of His Institutions, without realising that Bhagawan in His all pervading universal consciousness, would guide the destiny of His creations, which are close to His heart. This has been amply demonstrated with regard to the Sri Sathya Sai Institute of Higher Learning – the University founded by Bhagawan, that trains students to live His message and thereby transform society.

The University has made substantial progress over the past one year. The student strength has increased by four percent. The number of research scholars/fellows has increased by eighteen percent, strengthening the research activities at the University. The number of faculty has gone up by twenty-nine percent with the introduction of new courses and increase in student strength. Right persons with good background approached the University, of their own accord, expressing their desire to serve in this Institution.

Sixty percent of the faculty hold doctoral degrees and a good number of teachers, nearly twenty, are pursuing research leading up to a doctoral degree. The teacher student ratio (8:1) and the computer student ratio (3:1) are far ahead of the national averages of (33:1) and (229:1) respectively. The number of publications in good refereed journals has increased by forty-eight percent over the last one year.

New buildings are under construction – extension of hostel building, classrooms and auditorium complex in Prasanthi Nilayam Campus; quarters for teachers and workers in Anantapur campus.

Research activities in thrust areas have been initiated with the active participation of Sri Sathya Sai Institute of Higher Medical Sciences and Food and Drug Administration, USA and few other overseas partners. This research is expected to have new vistas in diagnosis and treatment of tuberculosis, dengue, chikungunya and HIV.

The increase in academic activities does not in any way imply that the values-based Integral Education, conceived and demonstrated by our beloved Baba has been pushed behind to second place. Conscious efforts have been made to sustain and take forward all the activities pertaining to Integral Education with the active participation of faculty and Doctoral research scholars in workshops, brain storming sessions and summer courses. Teachers and senior research scholars have been deputed to deliver talks on Bhagawan, across the country and abroad, whenever requested.

Anyone who is able to get deeply connected to Swami will feel the Divine hands of our beloved Baba in each one of these activities, indicating that He is there for us always and is guiding, leading and protecting us in all our endeavours. Let us pray to Him to reside in our hearts always and bless us.

J Shashidhara Prasad

J Shashidhara Prasad

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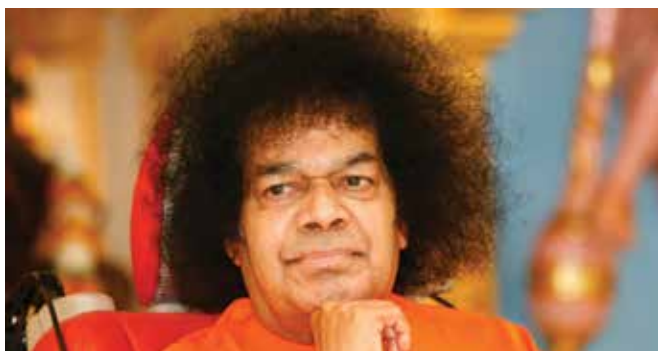
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Overview



1 OVERVIEW

1 OVERVIEW

THE UNDERLYING PHILOSOPHY

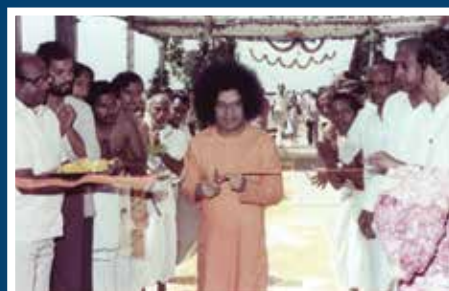
The Sai educational institutions have been established not merely to enable students to earn a living but to make them acquire good traits, lead ideal lives, and give them ethical, moral and spiritual strength. I have established them with a view to inculcate love and teach good qualities to students. They will learn here humility, discipline and faith.

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

This will be a Gurukula - a place where teachers and taught will grow together in love and wisdom - and like the ancient system of education, it will develop in its students a broad outlook and promote virtues and morals, which serve to foster noble ideals in society.

This Institute will be a temple of learning where youth are shaped into self-reliant, contented and enterprising heroes of action and self-sacrifice, for the purpose of serving humanity.

Bhagawan Sri Sathya Sai Baba
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 CORE PURPOSE

To impart true, ideal education, and mould students as ideal citizens wedded to the service of society.

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.

To help students to cultivate self-knowledge and self-confidence, so that each one can learn self-sacrifice and earn self-realisation.

To blossom students as true representatives of Bharatiya Samskriti, spreading tolerance, charity and brotherhood throughout the World.

To equip students for the role of future leaders of India, as persons of integrity and character, as embodiments of truth, justice (righteousness), peace and love; and to confer on them the courage to stand up against injustice, indiscipline, immorality and falsehood.

INTRODUCTION

Sri Sathya Sai Institute of Higher Learning, (Deemed to be University), with its headquarters in Prasanthi Nilayam (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). A fourth campus, at Muddenahalli, near Chickballabur (in Karnataka), became operational on 1 June 2012.

The Anantapur campus is for women students, while the Prasanthi Nilayam, Brindavan and Muddenahalli campuses are for men students.

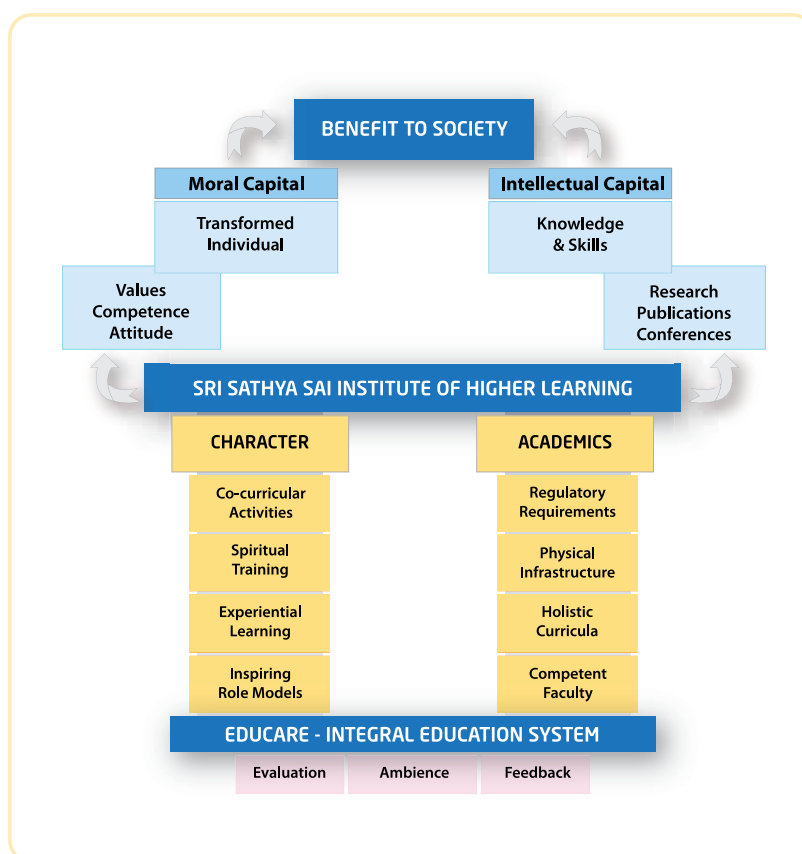
Providing Integral Education

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 the **Academic** (Secular) aspects of learning with that of **Character Building** (Spiritual), as depicted in the diagram below.

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."



SSSIHL TEMPLE OF LEARNING

The University curriculum 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.

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
Prime Minister of India

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

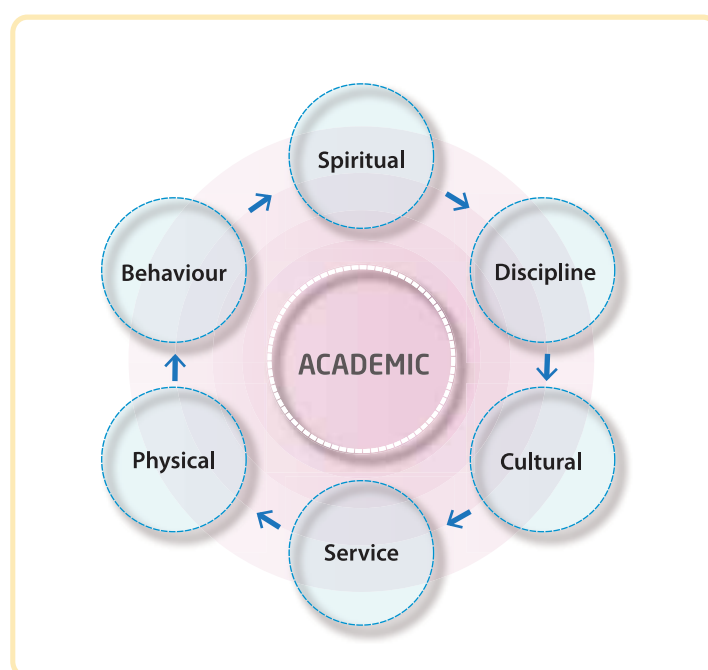
The Revered Founder Chancellor says, *"The term education is derived from the Latin term 'Educare', which means 'drawing out'. The idea is to draw out what is already latent. Acquisition of knowledge is a worldly aspect. But what has to be discerned is the divine feeling present in the human heart."*

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.

Students – both women and men – typically spend between two to five years pursuing an 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 alumni of the University pursue their lives after graduation. Their vision of life is guided by the **values** infused during their time at the University, where



SIX DIMENSIONS OF INTEGRAL EDUCATION

emphasis is laid on the **application of their knowledge for benefit to society**. This emphasis is 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 achieve a balance between the head, heart 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.

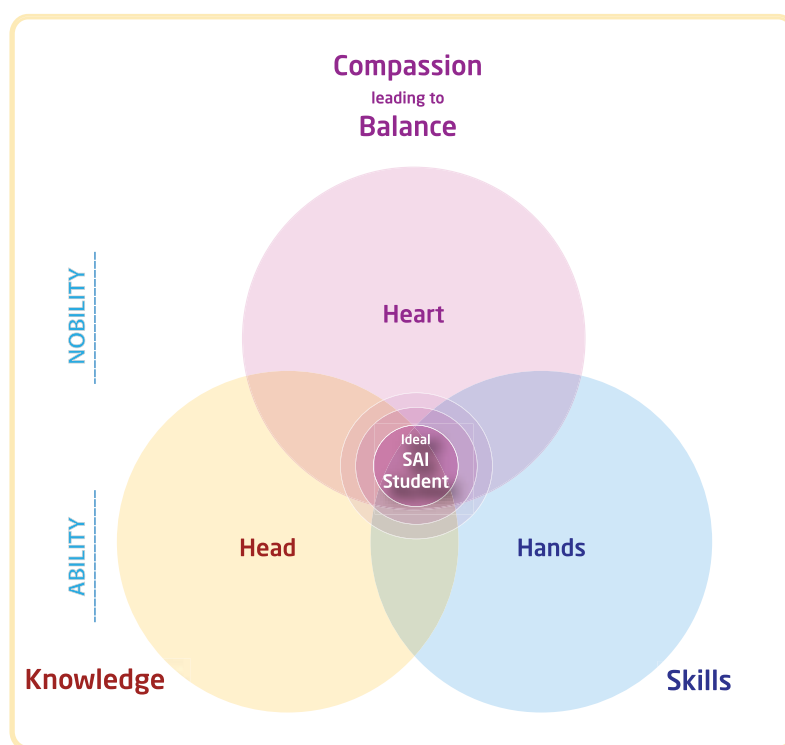
The Revered Founder Chancellor observes, *"Knowledge, when skilled, leads to balance which in turn provides insights about the application of knowledge for the benefit of society."*

He therefore desired 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**

"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



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
- Spiritual ambience in an environment of discipline
- 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

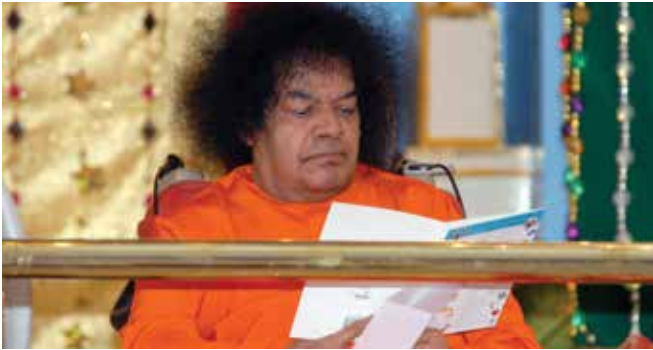
INFRASTRUCTURE

- Campuses set amidst peace surroundings
- Spacious, elegant and aesthetically designed buildings
- Well equipped, modern science laboratories and Instrumentation centres
- Libraries across campuses with over 1,50,000 volumes
- 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 at SSSIHL is willingly pursued by all teachers, staff and students.



2011/12



2 THE YEAR IN REVIEW

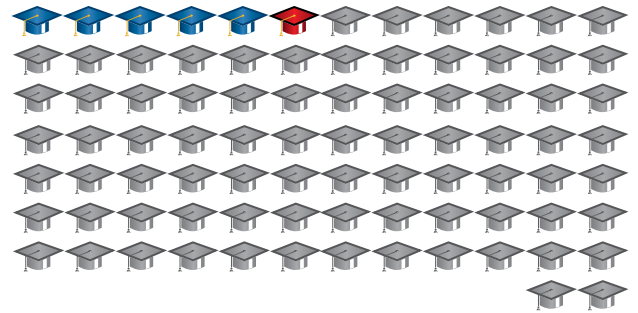
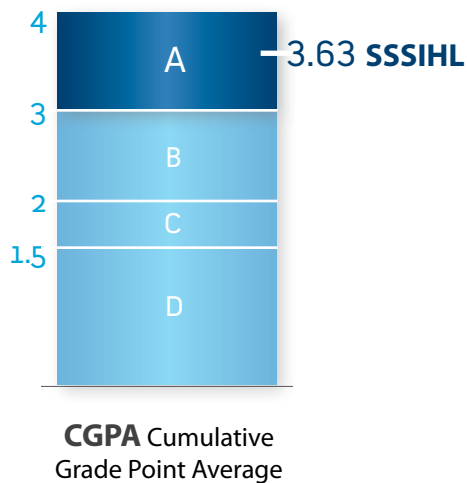
2 THE YEAR IN REVIEW

“Blessed indeed are the students who have had the privilege of going through an education programme (at SSSIHL) 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
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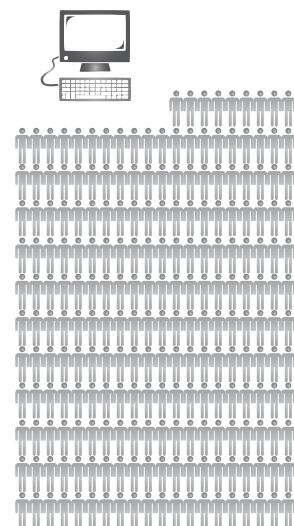
'A' Grade Re-Accreditation by NAAC



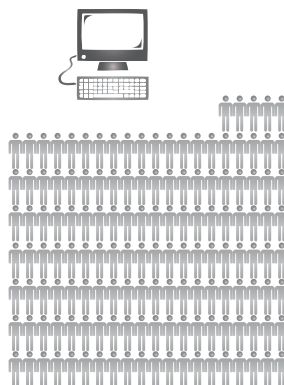
SSSIHL is among the top **7%** of 86 Indian Universities reaccredited by NAAC under the new methodology
Source: NAAC, Sept 2012

NAAC: The National Assessment and Accreditation Council

Student - Computer Ratio



229:1
National Average*



145:1
'A' Grade Institutions Average*



1:1
Usage Ratio



362

1208

3:1
SSSIHL

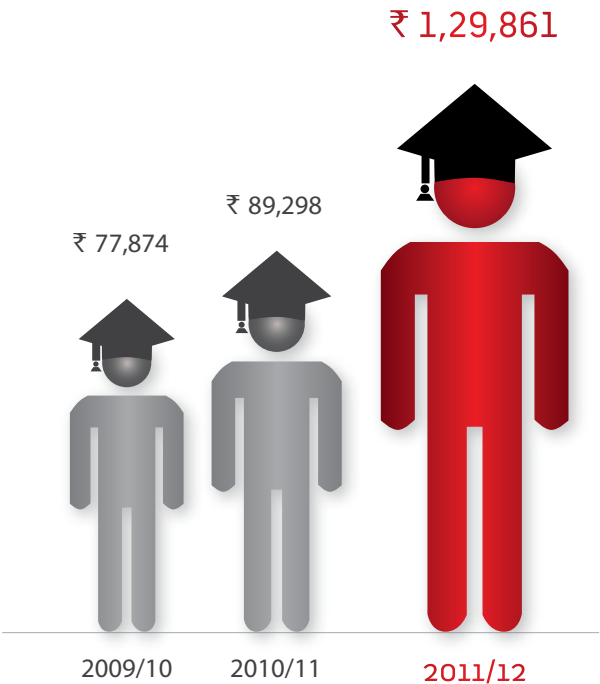
**Source: UGC Report, Strategies and Schemes during the Eleventh Plan Period (2007-2012) for Universities and Colleges, Jan 2011*

The above **does not include** computers provided for **teachers** and **research scholars**

Expenditure on Equipment & Infrastructure



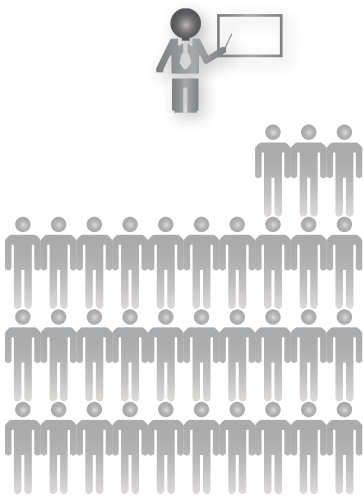
Expenditure per Student / per Year



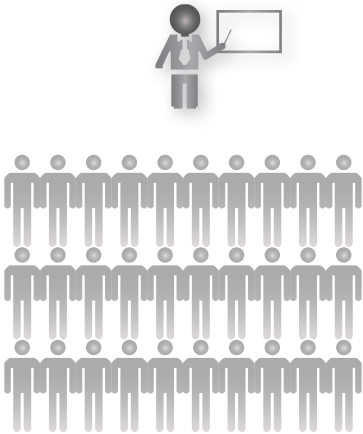
Cost to Student



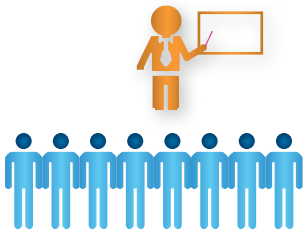
Student - Teacher Ratio



33:1
National Average*



30:1
'A' Grade Institutions*
Average



8:1
SSSIHL

156

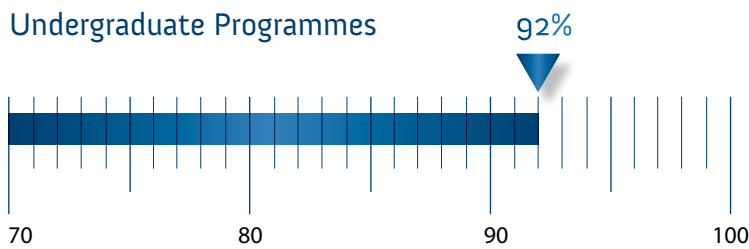
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The above reflects full-time faculty

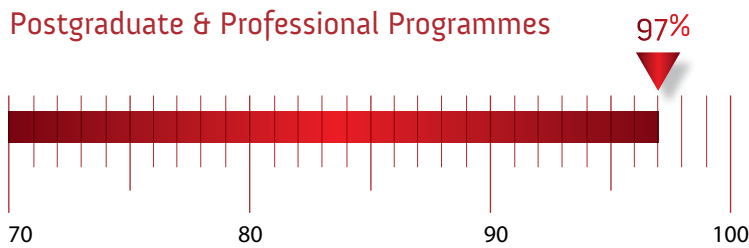
*Source: UGC Report, Strategies and Schemes during Eleventh Plan Period (2007-2012) for Universities and Colleges, Jan 2011.

Examinations Pass Percentage

Undergraduate Programmes

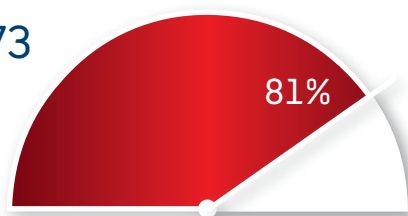


Postgraduate & Professional Programmes



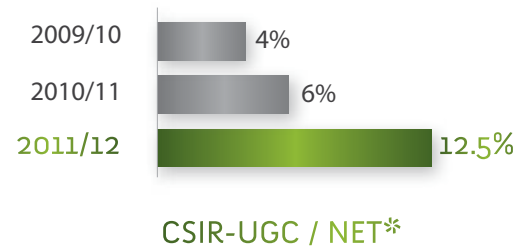
Projects and Dissertations

140/173



Note: There are 8 out of 12 Postgraduate & Professional programmes at SSSIHL where dissertations are compulsory for all students. For the remaining 4 Postgraduate programmes, students may opt for a dissertation in place of a course.

Performance in National Exams

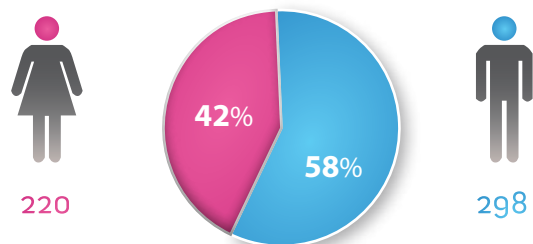


These figures are much higher than the national average.

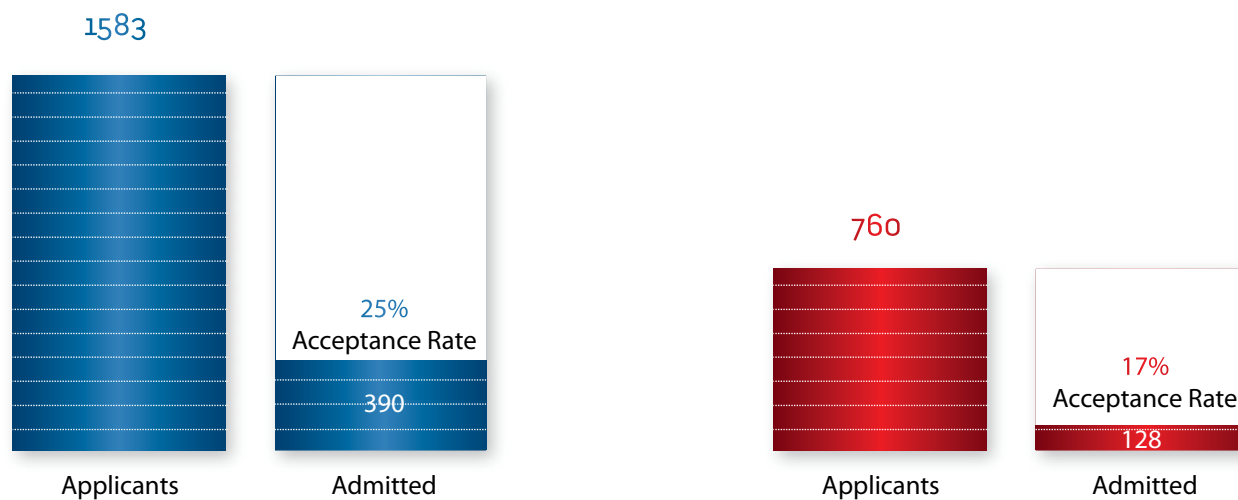
* This data pertains to final year Postgraduate students who are eligible to write the above exams.

GATE: Graduate Aptitude Test in Engineering
JEST: Joint Entrance Screening Test
CSIR: Council of Scientific & Industrial Research)
UGC: University Grants Commission
NET: National Eligibility Test

Total Admissions
518



Applications Vs. Admissions



Undergraduate 2011/12

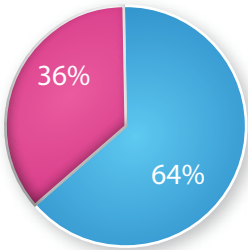
Postgraduate 2011/12

GRADUATES

433



157



276

Gold Medallists

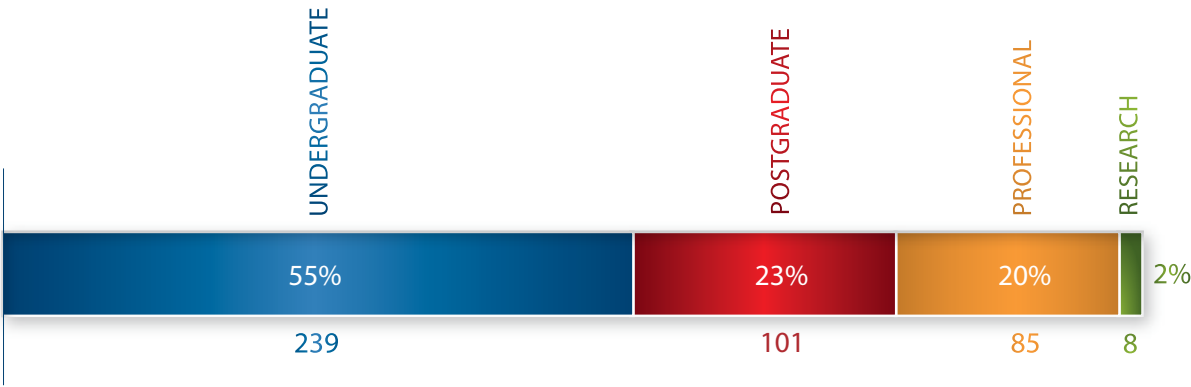


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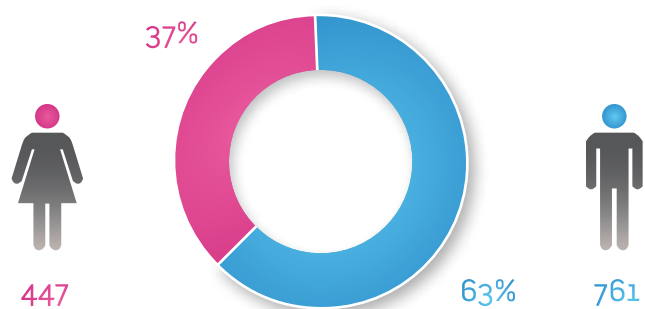
14

Graduates by Programme

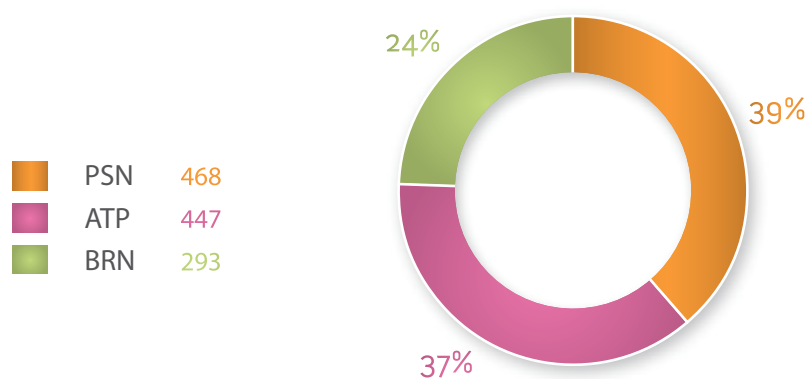


STUDENT STRENGTH

1208

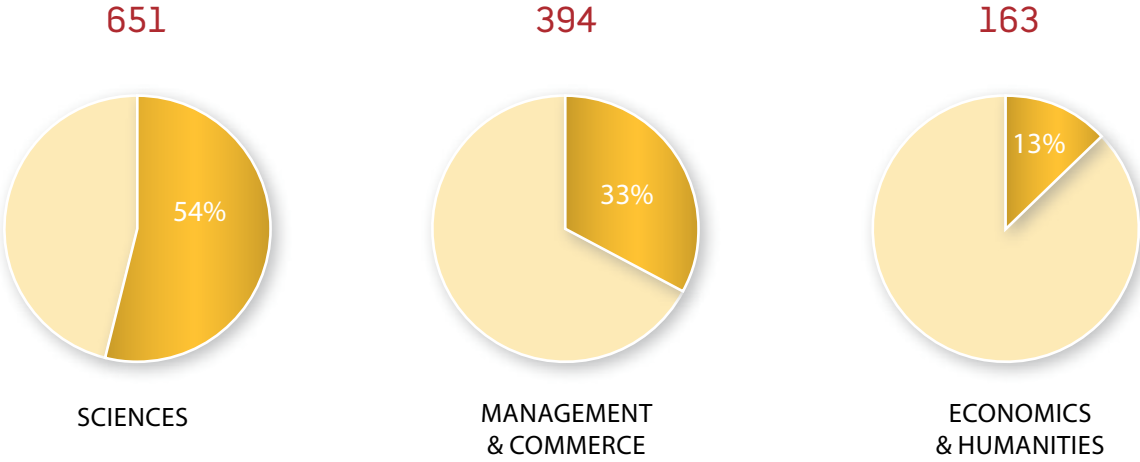


By Campus



PSN: Prasanthi Nilayam Campus | ATP: Anantapur Campus | BRN: Brindavan Campus

By Faculty

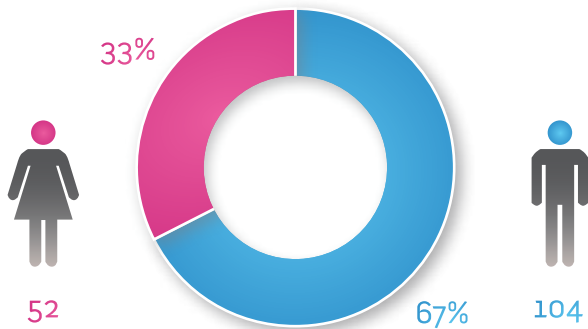


By Programme



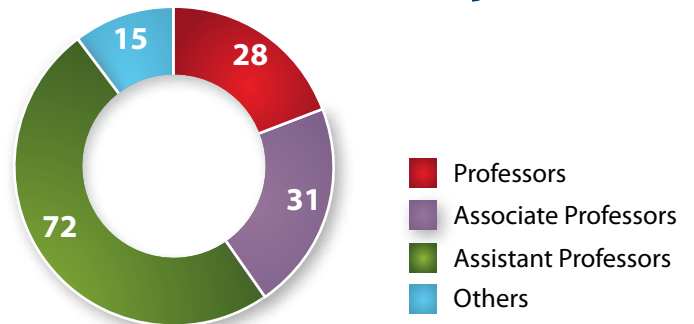
Academic Staff

156



Teacher Designations

146



Administrative Staff

52



Teachers With Doctoral Degrees

88/146

60% **Ph.D.**

Note: Additionally, **19** faculty members are currently registered for a Ph.D. Programme.

Visiting Faculty

111



Inspired by the **unique** philosophy of SSSIHL, eminent academicians and senior corporate executives, **volunteer** to visit the University on an on-going basis to share their knowledge and **experience** with students and faculty.



Indian Institute of Technology, Madras



Bayer Healthcare & Pharmaceuticals



CISCO



Indian Institute of Management, Ahmedabad



Lucent Technologies



University of Illinois, Urbana-Champaign



IBM



California State University



Deloitte



Birla Sun Life



National University of Singapore



ING Vysya



Delhi School of Economics



TATA Capital



Florida State University



AT&T Bell Labs



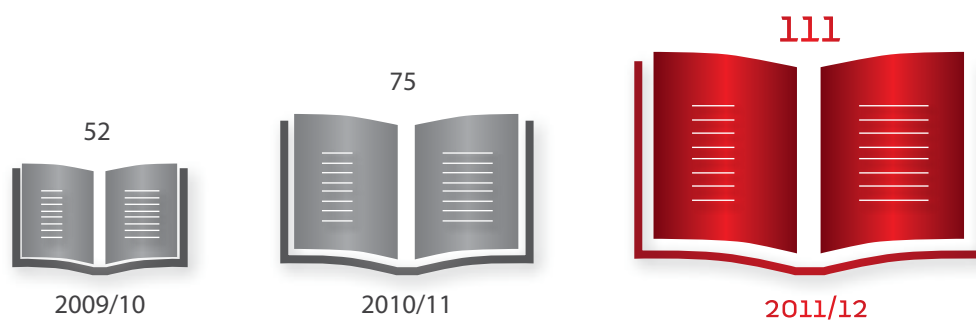
Ohio State University



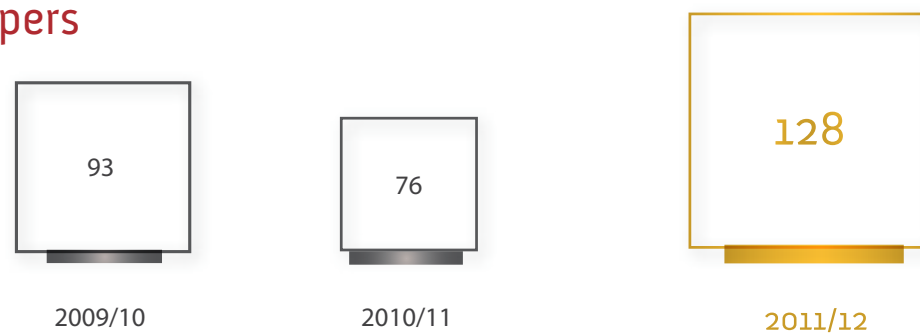
TVS Motors

Note: The above is a **partial list** of the Institutions / Corporate Organizations from where eminent academicians and senior corporate executives visit SSSIHL.

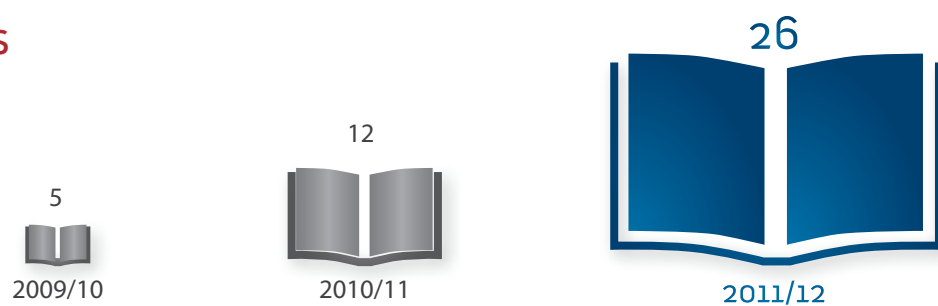
Journal Papers



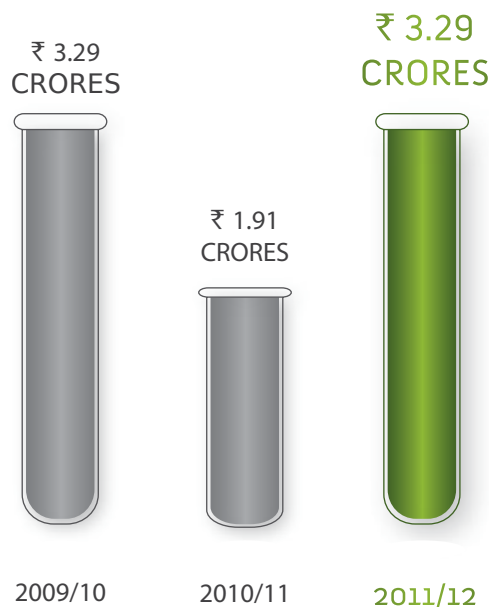
Conference Papers



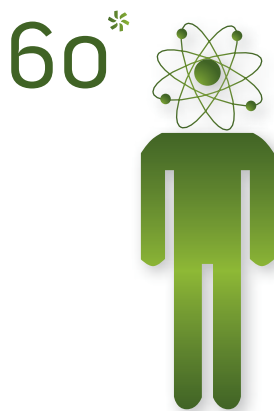
Books / Chapters



Research & Teaching Grants



Doctoral Research Scholars



All SSSIHL research projects are of **social relevance**, useful in **medical diagnostics**, **agricultural biotechnology**, **governance**, **social responsibility** & **sustainable** development.

SSSIHL has **7 times** the number of Doctoral Research Scholars than **the national average**.

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

academics



3 ACADEMICS

3 ACADEMICS

OVERVIEW

ADMISSIONS POLICY

Sri Sathya Sai Institute of Higher Learning (Deemed to be University) has a merit-based admissions policy open for all.

The University adopts the Government of India Policy for students from the Scheduled Castes (SCs), and the Scheduled Tribes (STs). This is applicable to all programmes – Undergraduate, Postgraduate, Professional and Research.

The admissions procedures are designed to provide an equal and fair chance for all suitable candidates to secure admission. Selected students are from various parts of India and this diversity contributes to a rich and stimulating learning environment that brings the best out of students and prepares them for professional challenges after graduation.

As envisioned by the Revered Founder Chancellor, Bhagawan Sri Sathya Sai Baba, Sri Sathya Sai Institute of Higher Learning (Deemed to be University) provides free education to all students.

COURSES FOR ADMISSIONS

SSSIHL offers several courses for admissions to applicants in Undergraduate, Postgraduate, and Professional programmes.

At the Postgraduate level, only a limited number of courses are open for direct admissions. The remaining postgraduate courses are integrated programmes whereby students graduating in certain undergraduate programmes, automatically qualify for Masters programmes, provided they get the required Cumulative Grade Point Average (CGPA) at the Undergraduate level.



The following is a full list of degree Programmes for admissions to SSSIHL:

Programmes for Women

Undergraduate Programmes (Duration: 3 years)

Bachelor of Arts
Bachelor of Commerce (Hons.)
Bachelor of Business Management
Bachelor of Science in Home Science
Bachelor of Science (Hons.) in Mathematics / Physics / Chemistry
Bachelor of Science (Hons.) in Biosciences (leading to a Postgraduate Programme)

Postgraduate Programmes (Duration: 2 years)

Master of Arts in English Language & Literature
Master of Science in Food Science and Nutrition
Master of Science in Food Technology

Professional Programmes (Duration: 1 year)

Bachelor of Education (B.Ed.)

Programmes for Men

Undergraduate Programmes (Duration: 3 years)

Bachelor of Arts
Bachelor of Arts (Hons.) in Economics
Bachelor of Commerce (Hons.)
Bachelor of Business Management
Bachelor of Computer Applications
Bachelor of Science (Hons.) in Economics
Bachelor of Science (Hons.) in Mathematics / Physics / Chemistry / Biosciences (leading to Postgraduate Programmes in respective subjects)

Postgraduate Programmes (Duration: 2 years)

Master of Arts in Economics
Master of Science in Nanoscience and Nanotechnology

Professional Programmes (Duration: 2 years)

MBA
MBA (Finance)
Master of Technology in Computer Science
Master of Technology in Applied Optics
Master of Technology in Analytical Methods and Chemical Instrumentation

The University has a twin modular research programme. Students can enrol for a Master of Philosophy (**M.Phil.**), leading to a Doctoral Research (**Ph.D.**) programme. Students who have qualified in the UGC-CSIR JRF examination, are eligible to directly join the Doctoral Research (**Ph.D.**) programme.

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 3.63 (on a scale of 4.00). This puts SSSIHL 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. The University libraries house reference and other study materials to aid students in every way. Every academic department has laboratories and related facilities that complement the theoretical learning experience with the practical aspects.

Design of Academic Programmes

All undergraduate courses in the Sciences and Arts require students to study courses that are across multiple disciplines. For instance, in the first two years, a student pursuing a B.Sc. degree programme in Physics, will also study Mathematics and Chemistry with equal emphasis. This deepens students' knowledge on subjects closely related to their core discipline.

Choice-based Credit system

Students pursuing courses in the Sciences and Management have the opportunity to choose electives, which fosters their academic development.

Question Paper Reforms

The question papers for examinations at SSSIHL are designed to cover the entire syllabus. They are not entirely memory-based and also test students' analytical skills, and their ability to synthesize knowledge, creativity and originality.

Continuous Internal Evaluation (CIE)

CIE is a measure whereby students are evaluated on an ongoing basis throughout each semester of their studies. Unlike the End of Semester Examinations (ESE), CIE requires that students take a series of tests on a monthly basis. CIE comprises of mid-semester tests, assignments, case studies, etc. The components of CIE are designed by the faculty to ensure that students have a sound and conceptual understanding of the subject.

Experiential Learning

The University is very dedicated to the cause of transforming theoretical knowledge into skills. For students studying the Sciences, close to 50% of class time is devoted to laboratory sessions. Students pursuing the Social Sciences, Arts, and Management disciplines spend a considerable amount of time on case-studies, self feedback exercises, role-plays, management games, group discussions, and outdoor exercises. This enables them to internalize the concepts studied.

Research with Social Relevance

The Revered Founder Chancellor would constantly emphasise that bookish knowledge must be translated into practical knowledge that ultimately benefits society. Consequently, all research projects at SSSIHL are of social relevance, and are useful in medical diagnostics, agricultural biotechnology, governance, social responsibility, sustainable development, etc.

Many of the research projects undertaken by the departments of the University are multi-disciplinary in nature.

Mentoring System

The University has a mentoring system whereby a resident teacher mentors up to ten students every year. This helps the student to excel in both academic as well as co-curricular activities of the University. 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 experience at SSSIHL.

Distinguished Visiting Faculty

Inspired by the vision of the Revered Founder Chancellor, Bhagawan Sri Sathya Sai Baba, eminent educationists and industrialists from across the 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

The holistic evaluation system at the University incorporates both curricular and co-curricular components (such as sports, culture, service and discipline), and is designed to foster unity, teamwork and a spirit of sacrifice amongst both faculty members and students. As a result, students are consistently provided with opportunities to develop their potential for leadership, teamwork, ethical and moral behavior. A strict disciplined routine (both academic and residential), which the teachers themselves follow, sets a precedent for students to follow.

FACULTIES & DEPARTMENTS

There are three academic faculties and ten 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 views and recommendations 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 are rigorous quality checks and control over all academic matters.



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 incorporate this. This re-orientates the focus of both the faculty and the students of that department towards the achievement of both academic and social excellence.

This section gives an overview of each Department of SSSIHL, including a list of courses offered, teaching and visiting faculty, thrust areas of teaching and research, facilities, workshops & conferences, projects and dissertations completed, and special achievements.

Integrated five-year Programmes

The University, from its inception, has provided for integrated five-year programmes combining undergraduate and postgraduate studies for a systematic coverage and graduated learning process. Students receive their Masters degree at the end of five years of study.

Such an integrated programme avoids duplication and redundancy of subjects covered and makes the learning process graduated and stimulating. It helps teachers to orient their teaching in a manner that inspires young students to get much more out of their chosen field of study than a conventional undergraduate programme.

FACILITIES

The University houses advanced infrastructural facilities that contribute to the academic and co-curricular domains of the students' personal development process.

Each campus of the university has excellent infrastructural facilities for students, faculty members, administrators and other staff, all of which help create an environment conducive for high quality education and all-around student development.

Buildings and Grounds

All the campuses of the University have spacious and aesthetically pleasing buildings designed for functionality and elegance. The classrooms have suitable facilities to aid teaching and effective teacher-student interaction. Supplementing these are the seminar halls and conference rooms with multi-media facilities. The buildings are complemented by beautiful lawns and well-maintained grounds at each campus.

Auditoriums

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

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 houses English Language Labs in all its campuses.

The University has 1Gbps broadband connectivity under the initiative of the National Knowledge Network (NKn) provided by the

Govt. of India. The campuses of the University are interconnected by means of a leased line network.

The Computer Centres at the campuses provide over 350 computers for use by the students. As a result, the student to computer ratio of the University stands at 3:1.

Multimedia Facilities

The air-conditioned Multimedia learning centres at each campus, with a seating capacity of over 100 participants, are equipped with the latest video conferencing facilities that enable active, real-time communication between all campuses of the University.

The Computer Centres, Multimedia Learning Centres, the UMS (University Management System) and the Labs are being managed by the following members of staff:

Name	Designation	Qualification
Dr. Ramaier Sriram	Senior Manager, UMS (Hon.)	B.Sc., M.Eng., Ph.D.
Sri R Renju	Information Scientist, Computer Centre, Prasanthi Nilayam Campus	B.E., M.B.A.
Miss D Amita	Information Scientist, Computer Centre, Anantapur Campus	B.Tech.
Sri S Sathyanarayanan	Information Scientist, Computer Centre, Brindavan Campus	M.Sc., M.S. (Software Systems)
Sri Srivarun Vallampatla	Software Lab Manager, Dept. of Mathematics & Computer Science	B.B.M., M.I.T.
Dr. S Bhaskaran	Honorary Administrator, Bioinformatics Lab, Dept. of Biosciences, Prasanthi Nilayam Campus	B.Sc., M.Sc., Ph.D., Dip. B.A.
Dr. Sanjay Mahalingam	Senior Systems Administrator, Prasanthi Nilayam Campus	B.Info. Tech., M.B.A., Ph.D.
Sri Neelratna R Chowbal	Computer Centre Administrator, Prasanthi Nilayam Campus	M.B.A.
Sri C Udayakiran	Systems Administrator, Computer Lab, Department of Mathematics & Computer Science, Prasanthi Nilayam Campus	B.E. (Computer Science), M.S. (Software Systems)
Sri R N Raghuram	Technical Assistant, Multimedia Centre, Prasanthi Nilayam Campus	M.Sc.
Ms. M Thabusum	Technical Assistant, Multimedia Centre, Anantapur Campus	B.A.
G V Venkata Raju	Technical Assistant, Multimedia Centre, Brindavan Campus	SSLC, ITI (Electrical)



Library Facilities

Each of the campuses of the university has got a well-established library. The total collection of books across the campus libraries is over 150,000. The libraries house latest books and journals in diverse academic fields and have spacious facilities for reading.

The libraries receive about 280 periodicals, both National and International, that include back volumes of journals. CD-ROM collections, as well as theses, dissertations, quick reference books, and other reference materials (including maps) are available to students and teachers.

The services offered in the libraries include referencing, photocopying, inter-library loans, etc.

The libraries are managed by the following staff members across the campuses:

Name	Designation	Qualification
Dr. K Tata Rao	Librarian, Prasanthi Nilayam Campus	M.Com., M.L.Sc., Ph.D.
Ms. Pushpa Ramanna	Honorary Librarian, Anantapur Campus	-
Sri M G Nandagopal	Asst. Librarian, Brindavan Campus	M.Com., B.L.Sc.

Sports Facilities

All campuses of the University are well equipped with sports facilities. From cricket grounds to an indoor stadium to basketball courts, each campus has its own set of facilities for students.

Each campus has a Director of Physical Education / Physical Instructor who oversees the sports activities for students at that campus.

Name	Designation	Qualification
Sri K P Gopinath	Physical Instructor, Brindavan Campus	B.A.
Sri R N Ravindra Kumar	Asst. Director of Physical Education, Prasanthi Nilayam Campus	B.Sc., M.P.Ed.
Mrs. K Hemalatha	Asst. Director of Physical Education, Anantapur Campus	M.A., M.P.Ed., M.Phil.

Two of the main sports facilities available for students are:

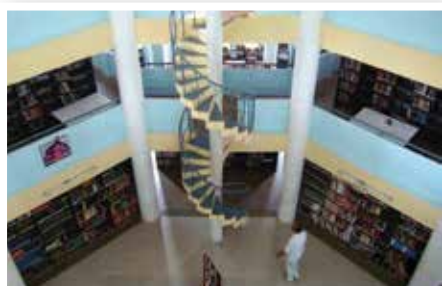
Sri Sathya Sai International Centre for Sports

An avante-garde, international-standard multi-discipline indoor stadium was inaugurated on 22 November 2006, by the 11th President of India, Honorable 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 among 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 hosts the Annual Sports and Cultural meet of all Sri Sathya Sai Educational institutions (an annual event on 11 January). Cricket, athletics and other sports are also played here. The stadium overlooks an array of imposing structures and statues symbolizing different faiths. Its viewers gallery can accommodate over 25,000 people.



DEPARTMENT OF MATHEMATICS & COMPUTER SCIENCE

VISION

To achieve excellence and 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 composition of the teaching faculty of the Department of Mathematics & Computer Science (DMACS) provides a mix of expertise in Mathematics and Computer Science. 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 by access they have to the leading journals in their respective areas and also by way of collaborating with fellow researchers in academia, both in India and abroad.

COURSES OFFERED

Undergraduate	B.Sc. (Hons.) in Mathematics	
	Bachelors of Computer Applications (BCA)	
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

Head of Department: Prof. V Chandrasekaran

Name	Designation	Qualification
Prof. C Jagan Mohan Rao	Professor (Hon.)	M.Sc., Ph.D.
Prof. V Chandrasekaran	Professor (Hon.)	M.Sc., Ph.D.
Dr. K S Sridharan	Professor (Hon.)	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.) Laxmi Naidu	Asst. Professor	M.Sc., M.Phil., Ph.D.
Dr. R Raghunatha Sarma	Asst. Professor	M.Sc., Ph.D.
Sri N Uday Kiran*	Asst. Professor	M.Sc., M.Tech.
Dr. S Balasubramanian	Asst. Professor	M.Sc., M.Tech., Ph.D.
Sri D Hanumantha Rao Naidu*	Asst. Professor	M.Sc., M.Tech.
Sri Sai Shyam*	Asst. Professor	M.Sc., M.Tech.
Dr. Krishna Kiran Vamsi Dasu	Asst. Professor	M.Sc., M.Phil., Ph.D.

Sri V Bhaskaran	Asst. Professor	M.Sc., M.Tech.
Sri Srikanth Khanna*	Asst. Professor	M.Sc., M.Tech.
Sri Devi Sudheer Kumar C*	Asst. Professor	M.Tech.
Sri B V K Bharadwaj*	Asst. Professor	M.Sc., M.Phil.
Sri Darshan Gera	Asst. Professor	M.Sc., M.Tech.
Ms. C R Saranya*	Asst. Professor (Part-time)	M.Sc., MPhil.

* also pursuing Doctoral Research

VISITING FACULTY

Name	Designation / Institution	Course / Topic Covered	Duration
Prof. Ramesh Sharma	University of New Haven, USA	Differential Geometry course	11 Jun to 5 Aug 2011
Prof. Ravi Mukkamala	Old Dominion University, Virginia, USA	Interaction with Ph.D. students	11-31 July 2011
		Network Security & Management for M.Tech. students	21 Nov to 24 Dec 2011
Dr. Ashok Srinivasan	Dept. of Computer Science, Florida State University, USA	Interaction with Ph.D. students	4-7 Jul 2011
Sri Madhusudan Sadagopan	Marketing Manager, SVP Pvt. Ltd., Chennai, Industrial Expert	Interaction with M.Tech. students	13-31 July 2011
Dr. N Sai Shankar	Director, Standards & Architecture Tensor Co., USA	Wireless networking	14-17 Jul 2011
Mrs. Neeta Trivedi	Senior Scientist and Director, AEIP, Aeronautical Development Establishment, Bangalore	Discussion on current DRDO Project and to explore future collaborations	4-6 Aug 2011
Prof. S Panchanathan	Chief Research Officer, Arizona State University, USA	Discussion on research work, M.Tech. projects and project proposals	7-12 Oct 2011
Prof. P Sadayappan	Ohio State University, USA	Training M.Tech. Students in CUDA programming and project discussions	21-26 Dec 2011 22-24 March 2012
Prof. K B Chandran	Dept. of Biomedical Eng., University of Iowa, USA	Planing research activities planning and making research proposals in medical image processing	20 Dec 2011 to 9 Jan 2012
Prof. N S Umanath	University of Cincinnati, USA	Database Design and ER Model	16 to 28 Jan 2012

WORKSHOPS & CONFERENCES CONDUCTED

Workshop 1

Title: Analysis and Application to Differential Equations

Dates: 21-23 Jul 2011

Venue: Multimedia Learning Centre, SSSIHL, Prasanthi Nilayam Campus

Program Chair: Prof. V Chandrasekaran

Program Convenor: Dr. Pallav Kumar Baruah

Theme of the Conference:

The primary goal of this workshop was to expose and inspire postgraduate students to the study and work in the field of differential equations. This workshop brought together reputed experts in the field who shared their experience of working in the area, nature of challenges and tools and methods available to meet challenges posed by different types of problems, based on their own practical skills and rich experience.

PROGRAMME

DAY 1: Jul 21 2011

Name & Designation	Title of the Talk
Prof. P C Das, Dept. of Mathematics, Indian Institute of Technology, Kanpur	Degree theory with some applications - Part I
Prof. T Gnana Bhaskar, Dept. of Mathematical Sciences, Florida Institute of Technology, Florida, USA	Uniqueness Results for Fractional Differential Equations
Prof. S G Deo, Dept. of Mathematics, Indian Institute of Technology, Kanpur	Matrix Differential Equations

DAY 2: Jul 22 2011

Name & Designation	Title of the Talk
Prof. S G Deo, Dept. of Mathematics, Indian Institute of Technology, Kanpur	Alpha Hyperbolic Equations
Prof. P C Das, Dept. of Mathematics, Indian Institute of Technology, Kanpur	Degree theory with some applications - Part II
Prof. B V Ratish Kumar, Dept. of Mathematics, Indian Institute of Technology, Kanpur	Finite Element Analysis of Singularly Perturbed Partial Differential Equations
Prof. Ramesh Sharma, Dept. of Mathematics, Univ. of New Haven, Connecticut, USA	Differential equations in Cosmology
Sri B V K Bharadwaj, Asst. Professor, DMACS, SSSIHL	
Sri D K K Vamsi, Asst. Professor, DMACS, SSSIHL	Fixed Point Theory applied to the Study of Interface problem

DAY 3: Jul 23 2011

Name & Designation	Title of the Talk
Prof. T Gnana Bhaskar, Dept. of Mathematical Sciences, Florida Institute of Technology, Florida, USA	Fixed point theorems on partially ordered metric spaces applications

Prof. S G Deo, Dept. of Mathematics, Indian Institute of Technology, Kanpur	Fibonacci Trigonometry
Sri N Uday Kiran, Asst. Professor, DMACS, SSSIHL	Micro local Analysis of Multiple Characteristics Problems

Workshop 2

Title: Workshop on Eclipse

Dates: 17 Sep 2011

Venues: Multimedia Learning Centre and M.Tech Lab, DMACS, Prasanthi Nilayam Campus

Program Chair: Prof. V Chandrasekaran

Program Convenor: Dr. Raghunatha Sarma

PROGRAMME

Speakers: Mr. Lalith Krishna Kishore, IBM, Bangalore and Mr. N Subramanian, Engineering Manager, Yahoo Inc., Bangalore

Topics:

- Introduction and history
- Where is Eclipse being used
- Why use Eclipse?
- A short demo of the Eclipse workbench
- Eclipse plug-in architecture
- How to create a plug-in?
- Contributing to Eclipse
- Eclipse Campus Ambassador Program

Workshop 3

Title: WADE 2012 - Workshop on Analysis and Differential Equations

Dates: 17 to 18 Feb 2012

Venue: Multimedia Learning Centre, SSSIHL, Prasanthi Nilayam Campus

Program Chair: Prof. V Chandrasekaran

Program Convenor: Dr. Pallav Kumar Baruah

Theme of the Conference:

This workshop was a follow-up to the workshop on Analysis and Application to Differential Equations held from 21-23 Jul 2011.

PROGRAMME

DAY 1: Feb 17 2012

Name & Designation	Title of the Talk
Prof. V Chandrasekaran, Head, DMACS, SSSIHL	Welcome Address
Prof. C Jagan Mohan Rao, Professor (Hon.), DMACS, SSSIHL	Inaugural Talk
Dr. R Raghunatha Sarma, Asst. Professor, DMACS, SSSIHL	Vote of Thanks

Prof. V Raghavendra, Dept. of Mathematics, Indian Institute of Technology, Kanpur	Partial Differential Equations (PDE): Lewy's Non-existence Theorem
Prof. A K Pani, Dept. of Mathematics, Indian Institute of Technology, Mumbai	Computational PDE
Prof. D Bahuguna, Dept. of Mathematics, Indian Institute of Technology, Kanpur	Theory and Methods for the First Order Partial Differential Equations
Prof. B V Ratish Kumar, Dept. of Mathematics, Indian Institute of Technology, Kanpur	Spectral Methods for PDEs
Prof. V Raghavendra, Dept. of Mathematics, Indian Institute of Technology, Kanpur	A Quick Review of Sobolev Spaces

DAY 2: Feb 18 2012

Name & Designation	Title of the Talk
Prof. D Bahuguna, Dept. of Mathematics, Indian Institute of Technology, Kanpur	Classification of Second Order Partial Differential Equations
Prof. A K Pani, Dept. of Mathematics, Indian Institute of Technology, Mumbai	Finite Difference Methods I Finite Difference Methods II
Prof. V Raghavendra, Dept. of Mathematics, Indian Institute of Technology, Kanpur	Linear Elliptic Dirichlet Boundary Value Problems
Prof. D Bahuguna, Dept. of Mathematics, Indian Institute of Technology, Kanpur	Theory and Methods for the Second Order Partial Differential Equations



DEPARTMENTAL COLLOQUIUM

The Department of Mathematics and Computer Science (DMACS) regularly hosts colloquium talks by the teachers, research scholars and external experts in the areas of Mathematics and Computer Science. The details of the colloquium are provided below.

Date	Presenter	Designation	Topic
11 Jul 2011	Prof. V Chandrasekaran	Head, DMACS, SSSIHL	Information Security: Shaping the way we live
17 Sep 2011	Sri N Uday Kiran	Asst. Professor, DMACS, SSSIHL	Regularity and Propagation problems in partial Differential Equations
26 Nov 2011	Dr. Krishna Kiran Vamsi Dasu	Asst. Professor, DMACS, SSSIHL	Spiritual insights through Mathematics
17 Dec 2011	Dr. Pallav Kumar Baruah	Asst. Professor, DMACS, SSSIHL	High Performance Computing, modelling and simulation
21 Jan 2012	Dr. R Raghunatha Sarma	Asst. Professor, DMACS, SSSIHL	Data Clustering
11 Feb 2012	Dr. S Balasubramanian	Asst. Professor, DMACS, SSSIHL	Data mining without data
17 Feb 2012	Prof. Amiya Kumar Pani	Industrial Mathematics Group, Indian Institute of Technology, Mumbai	Navier Stokes equations: A Million Dollar Open Problem
17 Feb 2012	Prof. V Raghavendra	Dept. of Mathematics, Indian Institute of Technology, Kanpur	Is One-Oneness is Equivalent to Onto?
10 Mar 2012	Sri Devi Sudheer Kumar C	Asst. Professor, DMACS, SSSIHL	A bird's eye view of High Performance Computing

WORKSHOPS ATTENDED

- Sri S Sathyanarayanan attended a workshop on "FOSS Adoption in Education" by C-DAC, Navi Mumbai, 26 Aug 2011.
- Sri D Hanumantha Rao Naidu attended a workshop on "Image and Speech Processing", jointly organized by C R Rao Advanced Institute of Mathematics, Statistics and Computer Science, Hyderabad and International Institute of Information Technology, Hyderabad, 17 Dec 2011.
- Sri N Uday Kiran attended a workshop on Recent Trends in PDE and Applications, University of Hyderabad, 17-18 Mar 2012.
- Sri Darshan Gera attended a two-day software workshop on latest technologies titled "Indian Software Development Meet" at Silicon India, Bangalore, 23-24 Mar 2012.

OTHER INFORMATION

- I year M.Tech. Computer Science students were taken on a 5-day Industry Tour to Bangalore from 16-20 Apr 2012. Students visited the following companies: Rural Shores (BPO), TVS Motors (Manufacturing), SSSIHMS Whitefield (IT Operations and Maintenance), Thomson Reuters (Specialized Search Engines), IBM (Processor Design and Testing), Alcatel Lucent (Networks), and GE Healthcare (Manufacturing). During their visit, students and staff were able to see the relevance of their theoretical knowledge and its applications. They were able to imbibe and understand the importance of quality consciousness and professionalism expected in industry.

- A workshop on wireless and mobile networks was conducted by Dr. N Sai Shankar, Director, Standards and Architecture, Tensorcom, San Diego, USA, 14-17 Jul 2011.
- A “Spoken Tutorial Project” training to the M.Sc. and M.Tech. students was conducted in collaboration with Indian Institute of Technology, Mumbai. Dr. R Raghunatha Sarma acted as a coordinator for this initiative. The Spoken Tutorial project is the initiative of the “Talk to a Teacher” project of the National Mission on Education through Information and Communication Technology (ICT), launched by Ministry of Human Resource Development (MHRD), Govt. of India. DMACS is committed to FOSS and conducted following workshops to promote this cause.
- A theory and hands-on training on “CUDA” was conducted by Prof. P Sadayappan, Ohio State University, USA for M.Tech. Computer Science students, 22-24 Mar 2012.
- Workshops that were conducted for students included Scilab for first year M.Tech. students on 27 Sep 2011, Linux for first and second year M.Sc. students on 27 Dec 2011, and Scilab for first year M.Sc. students on 2 Mar 2012.

SPECIAL ACHIEVEMENTS

Dibyam Pradhan, M Naveen, A Sai Hareesh, Pallav Kumar Baruah and V Chandrasekaran

- Best presentation award for the paper “A Computationally Efficient Approach for Exemplar-based Colour Image Inpainting using GPU” by at the HiPC Conference 2011, Bangalore.

Dr. Pallav Kumar Baruah

- Award: Academic Partner, Professor Partnership Program (PPP), NVIDIA.
- Invited Talk: Mathematical Models for some HPC Applications, National Symposium on HPC Applications, Indian Institute of Technology, Kanpur, 12-14 Mar 2012.
- Invited Talk: Data integrity, security and privacy in Data outsourcing, CSI National Conference on Emerging Trends in Information and Communication Technology, Jointly organized by Guru Nanak Institute and Computer Society of India, Hyderabad, 3-4 Feb 2012.
- Keynote Talk: Data integrity and security algorithms in HPC and GPU clusters, HeMPa 2011, jointly organized by CDAC and CMSD University of Hyderabad, Gouchibowli campus, Hyderabad, 17-21 Oct 2011.
- Seminar Talk: “Existential and Qualitative study of paired and Coupled ordinary Differential equations” Department of Mathematics and Statistics, Indian Institute of Technology, Kanpur, 24 May 2011.

TECHNICAL PROGRAM COMMITTEE MEMBER FOR CONFERENCES:

- IC3 2012, 5th International Conference on Contemporary Computing, jointly organized by IIIT INDIA and University of Florida, USA, 6-8 Aug 2012.
- CISCO’12, 1st International Conference on Computing, Information Systems and Communications, Singapore, 11-13 May 2012.
- ACACOS’12, 11th WSEAS International Conference on Applied Computer and Applied Computational Science, Rovaniemi, Finland, 18-20 Apr 2012.
- ICCS 2012, International Conference on Computational Science, Omaha, Nebraska, USA, 4-6 Jun 2012.
- ICCS 2011, International Conference on Computational Science, 2011, Tokyo, 2-5 Jun 2011.
- The 11th WSEAS International Conference on Applied Computer Science (ACS’11), 3-5 Oct 2011, Penang, Malaysia.
- 2nd European Conference of Computer Science (ECCS’11).
- Euro-SIAM: 2nd European Conference for the Applied Mathematics and Informatics.
- American Conference on Applied Mathematics (American-MATH’11).

REVIEWED ARTICLES FOR THE JOURNALS:

- Journal of Applied Mathematics and Computing, Springer Publication.
- Journal of Super Computing, Springer Publication.
- Mathematical Review: Archive of American Mathematical Society

Dr. R Raghunatha Sarma

- Organized a workshop on “principles and practices of software engineering” on 10 Mar 2012 for M.Tech. Computer Science students with active participation from Industry experts. The motivation behind this workshop was to provide a comprehensive view and in-depth knowledge in various domains pertaining to Computer Science/IT including software, hardware, and business intelligence from a industry practitioner perspective.

Dr. Krishna Kiran Vamsi Dasu

- Dr. K V Rao Young Scientist award (2nd place) for Mathematics for the year 2012.

Sai Hareesh Anamandra

- Reviewer for Journal of Electronic Imaging, SPIE

FACILITIES UPGRADED

- Fourteen PCs for faculty, students and Research Scholars for working on the DRDO project - ‘Image Segmentation’ and for conducting FOSS program
- A 2 node cluster consisting of two Tyrone 4U Rackmount servers (each with E7-4830, RAM, 12 x 4 GB DDR3 ECC Reg, HDD 2 x 1TB 7.2RPM, single port Infiniband Card Mellanox, Chassis 4U Tower of 1400W, infiniband cable and a gold level Redundant chassis)
- A Matlab7.14 Software with tool boxes
- HP Laserjet printer

THRUST AREAS OF RESEARCH

- Partial differential equations
- Non-linear coupled differential equations
- Fractional calculus
- Image processing and video Processing
- Computer vision and pattern recognition
- Soft computing
- Machine learning
- Machine intelligence
- Cryptography
- High performance computing
- Speech processing
- Computer and communication Networks

RESEARCH PROJECTS – COMPLETED

Granting Agency	Principal Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
DRDO	Dr. Pallav Kumar Baruah Study of Nonlinear Interface Problems	16 Jun 2009 to 15 Jun 2012	10.49 Lakhs

Scope: This project aimed 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: Published literature reveals a class of problems wherein two different differential equations are defined on adjacent intervals with a common point of interface. These problems are termed as interface problems. If the interface problem has a well-defined boundary, they are called a regular boundary value problem (RBVP). The interface problem with a boundary that have singularity at the end points are called a singular boundary value problem (SBVP). If there exist singularity at the points of interface, these problems are termed as singular interface problems (SIPs). Solving these types of boundary value problems with singularities remains a challenge for mathematicians.

Social Relevance: These types of interface problems are encountered in the study of Acoustic Wave Guides in Ocean, One Dimensional Scattering in Quantum Theory, Optical Fiber Transmission, and Applied Elasticity. It was intended that a detailed theory to solve these problems be developed.

Problems involving second order operators were studied. A resolution to study the same for problems involving n^{th} order operators (which is quite challenging) was put in motion. The work done has been communicated to journals and also has been presented in conferences.

Following is the list of papers from the work done for this project. This work is also part of the Ph.D. work of Dr. D K K Vamsi. He is the 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 *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).



RESEARCH PROJECTS – ONGOING

Granting Agency	Principal Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
DAE/ NBHM	Dr. Pallav Kumar Baruah Qualitative study of solutions of Nonlinear Coupled Ordinary Differential Equations	2010 to 2013	1.9 Lakhs

Following is the list of Research papers from the work done on this project. This work is also part of the Ph.D. work by B V K 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.
- "Reduction of an Operator Equation in to an Equivalent Bifurcation Equation Through Schauder's Fixed Point Theorem."

Granting Agency	Principal Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
DRDO ER & IP, DELHI, INDIA	Dr. S Balasubramanian (P.I.) Dr. R Raghunatha Sarma (Co P.I.) An Ensemble of Image Segmentation Algorithms for Medical and Aerial Images	1 Sep 2011 to 1 Sep 2014	41.4 Lakhs

Scope: Segmentation for various images including Aerial and Medical images

Deliverables:

- Provide a suite of algorithms for applications that need image segmentation across domains ranging from security to medicine.
- Provide objective evaluation methodologies (intended for researchers who perform fundamental computer vision research).
- Design metrics to evaluate quality of image segmentation by various algorithms so as to classify the segmentation algorithm paradigms against type of images, particularly aerial and medical images

Social Relevance:

- Helpful to the Department of Defence (Govt. of India) in tracking objects automatically in their aerial images
- Disease manifestations detected automatically can enable experts to focus their attention more on the ones who need them

RESEARCH SCHOLARS

Scholar Name	Area of Research	Research Supervisor(s)
Sri Srikanth Khanna	Fractional Calculus in Image Processing	Prof. V Chandrasekaran
Sri Devi Sudheer Kumar C	Topology and Routing Aware Mapping on Parallel Processors	Prof. Ashok Srinivasan, Florida State University, USA
Sri N Uday Kiran	Propagation and regularity problems of Partial differential equations	Dr. B R Nagaraj, TIFR Centre for Applicable Mathematics, Bangalore

Sri D Hanumantha Rao Naidu	Speaker dependent Speech Enhancement	Prof. G V Prabhakara Rao and Dr. Sriram Srinivasan
Sri B V K Bharadwaj	Qualitative Study of Nonlinear Coupled BVPs	Dr. Pallav Kumar Baruah
Sri Ajit Padyana	I/O Throughput Performance Enhancement in High Performance Computing Applications	Dr. Pallav Kumar Baruah
Sri A Sai Hareesh	Real-time Video Super Resolution	Prof. V Chandrasekaran
Sri M S Srinath	Cryptography using Elliptic Curves and Other Abelian Varieties	Prof. V Chandrasekaran
Sri Sai Shyam Sharma	Lattice-based Cryptography	Prof. V Chandrasekaran
Sri Lalith Srikanth C	Novel Methods for Image Segmentation	Dr. K S Sridharan
Mrs. C R Saranya	Non-Commutative Algebraic Cryptography	Prof. V Chandrasekaran

PROJECTS & DISSERTATIONS COMPLETED

M. Tech. Dissertations

Scholar Name	Project Title	Supervisor
Sri Umar Ali Nagoor Saheb Shaik	Gray-Scale Video Super Resolution using Adaptive Wiener Filters	Prof. V Chandrasekaran
Sri Phani Krishna K	Parallelization of Derivative Pricing Methods on GPU	Dr. Pallav Kumar Baruah
Sri T J V R K M Sayi	Efficient Privacy Preserving Data Distribution in Outsourced Environments Using Clustering Techniques	Dr. Pallav Kumar Baruah
Sri K N Sai Krishna R	Privacy Preserving Data Management in Outsourced Environments: A Graph Coloring based Approach	Dr. Pallav Kumar Baruah
Sri Kolluru Vamshi Krishna	Analysis of Strategies for Performance enhancements of Applications on GPUs	Dr. Pallav Kumar Baruah
Sri Arun Sathya Narayan	Simulation of RLC sub-layer (AM-Mode) in OMNET++ using MIXIM Framework	Dr. R Raghunatha Sarma
Sri Nagarajan Raghunathan	Simulating LTE-RLC sub-layer (TM/UM) in OMNET++ using MIXIM Framework	Dr. R Raghunatha Sarma
Sri B Anil Sri Harsha	Exploiting Multiple Contextual Resources to Personalize Web Search Using a Combination of Association Rule Mining and Statistical Language Modelling	Dr. S Balasubramanian
Sri Dibyam Pradhan	Automatic Prediction of Unroll Factor Using Support-Vector Classification	Dr. S Balasubramanian
Sri Dusi Sarath Chandra	Performance Enhancement of V8 Javascript Engine Using LLVM as a Back-End	Dr. S Balasubramanian
Sri Naveen M	Scaling Down TLB Miss Penalty Through MMU Caches	Dr. S Balasubramanian
Sri Praveen K	Automatic Loop Tile Size Selection Using K-Nearest Neighbors Algorithm	Dr. S Balasubramanian

M.Sc. (Mathematics) Dissertations

Name	Project Title	Supervisor
Sri Benuraj Sharma	Lattice-based Cryptography	Prof. V Chandrasekaran
Sri Kamal Joshi	A study on Non-Commutative Cryptography	Prof. V Chandrasekaran
Sri Karthik Ponneganti	A Study of Verifiable Computing Using Fully Homomorphic Encryption	Prof. V Chandrasekaran
Sri Venkata Sai Hemanth	Analysis of Floating Point Compression Algorithms	Dr. Pallav Kumar Baruah
Sri Sriram K V Rao Kanchiraju	Study of Reduced Order Modelling: Time Parallelization	Dr. Pallav Kumar Baruah
Sri Jaydev Dasika	Finite Difference Schemes for solving Underwater Acoustic waver propagation problems: A comparative Study	Dr. Pallav Kumar Baruah
Sri Chandrasekhar Iyer	A study of probabilistic Location and Routing in Peer-to-Peer structured Overlay Networks	Dr. R Raghunatha Sarma
Sri Pinak Panigrahi	Identity based encryption schemes from bilinear pairings	Sri Sai Shyam Sharma
Sri Bhaskar Krishna	Pairing based digital signature schemes	Sri Sai Shyam Sharma

RESEARCH PUBLICATIONS

Journal Papers

- Maheswari B, Naidu L, Reddy N L and Sudhakaraiah A (2011) Minimum Global dominating set of an Interval Graph. *International journal of Mathematics Science and Engineering Applications (IJMSEA)*, 5(4), 265-269.
- Uday Kiran N, Srinath M S and Sharma R (2011) Normal Vector as an eigenvector of the Weingarten map. *International Electronic Journal of Geometry*, 4(1), 125-128.
- Vamsi D K K and Baruah P K (2011) Disconjugacy(D) and Non-Oscillation(N) Domains for Nonlinear Singular Interface Problems on Semi Infinite Time Scales. *ISRN Mathematical Analysis*, 23-37.
- Vamsi D K K and Baruah P K (2011) Existential and Uniqueness Results for BVPs associated with Nonlinear Singular Interface Problems on Time Scales. *Advanced Dynamical Systems and Applications*, 6(2), 271-290.
- Vamsi D K K and Baruah P K (2011) Existential Results for Nonlinear Singular Interface Problems Involving Second Order Nonlinear Dynamic Equations Using Picard's Iterative Technique. *The Journal of Nonlinear Analysis and Applications*, 4(3), 200-209.
- Vamsi D K K and Baruah P K (2012) Existential of Positive Solutions and Eigenvalue Intervals for Nonlinear Sturm Liouville Problems with a Singular Interface. *Electronic Journal of Differential Equations*, (53), 1-12.
- Vamsi D K K and Baruah P K (2012) Existential Results for Nonlinear Sturm-Liouville Singular Interface Problems. *International Journal of Mathematics Research*, 4(1), 1-14.

Conference Papers

- Aditya T, Baruah P K and Mukkamala R (4-9 Jul 2011) Space-efficient Bloom Filters for Enforcing Integrity of Outsourced Data in Cloud Environments. *IEEE 4th International Conference on Cloud Computing*, Washington DC.
- Naidu D H R, Rao G V P and Srinivasan S (6-8 Jul 2011) Speech enhancement using speaker dependent codebooks. *17th International Conference on Digital Signal Processing (DSP2011)*, Corfu, Greece.
- Sai Hareesh A and Prabhakar A (11-15 Jul 2011) Role of neutral element in Absorption equation. *International Summer School on Aggregation Operators*, Benevento, Italy.
- Aditya T, Baruah P K and Mukkamala R (22-24 Jul 2011) Employing Bloom Filters for Enforcing Integrity of Outsourced Databases in Cloud Environments. *First International Conference on Advances in Computing and Communications (ACC 2011)*, Kochi India
- Sayi T, Sai Krishna R, Mukkamala R and Baruah P K (18-21 Dec 2011) Privacy Preserving Data Distribution in Outsourced Environments. *IEEE HiPC, Student research Symposium*, Bangalore.
- Praveen K, Vamshi Krishna K, Sri Harsha B A, Balasubramanian S and Baruah P K (18-21 Dec 2011) Cost Efficient PageRank Computation using GPU. *IEEE HiPC, Student research Symposium*, Bangalore.
- Pradhan D, Naveen M, Sai Hareesh A, Baruah P K and Chandrasekaran V (Dec 2011) A Computationally Efficient Approach for Exemplar-based Color Image Inpainting using GPU. *IEEE International Conference on High Performance Computing*, Bangalore.
- Tripathi R K, Raich V V, Dookhitram K, Dalal S K and Sai Hareesh A (2-3 Mar 2012) Similarity between max min and $\langle R|V \rangle$ technique with reference to two diseases. *IEEE National Conference on Computational Intelligence*, Assam, India.
- Naidu D H R and Srinivasan S (25-30 Mar 2012) A Bayesian framework for robust speech enhancement under varying contexts. *IEEE International Conference in Acoustics, Speech and Signal processing (ICASSP 2012)*, Kyoto, Japan.

Chapters in Books

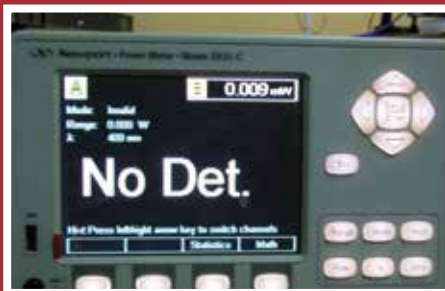
- Aditya T, Baruah P K and Mukkamala R (2011). Employing Bloom Filters for Enforcing Integrity of Outsourced Databases in Cloud Environments in: *Advances in Computing and Communications* (Vol. 190, pp. 446-460). Springer (Berlin, Heidelberg). ISBN: 978-3-642-22708-0 (Print); 978-3-642-22709-7 (Online).



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 important areas of Physics.
- To become a Centre of Excellence in the chosen thrust areas of research of the department, with socially relevant applications.



OVERVIEW

The Physics department offers quality training to all the students, in *learning and doing 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 Departments of Chemistry, Biosciences and Mathematics & Computer Science of the University.

A comprehensive Photonics Lab with high power pulsed lasers, detectors, spectrum and signal analysers, and energy meters 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 Nanomaterials for specific application of interest which includes thermoelectrics, optical power limiting, drug delivery, solar cells and fluoride sensing.

The department has committed and competent faculty who are actively pursuing sponsored research projects in four frontier areas, namely Nanoscience, Photonics, Nuclear spectroscopy & Applied Nuclear Physics techniques and Signal processing.

For the past few years, the department has received substantial funds (300 Lakhs in five years) 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), Defence Research and Development Organization (DRDO) and UGC. The department has also started working on selective industry projects in the areas of optical networking and Signal processing.

COURSES OFFERED

Undergraduate	B.Sc. (Hons.) in Physics	
Postgraduate	M.Sc. Physics with specialization in either: (a) Photonics (b) Nuclear Physics, or (c) Electronics	
	M.Sc. Nanoscience and Nanotechnology	
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

Name	Designation	Qualification
Prof. K Venkataramaniah	Professor (Hon.)	M.Sc., Ph.D.
Prof. Debendranath Sahoo	Professor (Hon.)	M.Sc., Ph.D.
Dr. (Mrs.) Dwaraka Rani Rao	Professor (Hon.)	M.Sc., M.Phil., Ph.D.
Dr. S Siva Sankara Sai	Associate Professor	M.Sc., Ph.D.
Dr. K S Umesh	Associate Professor	M.Sc., Ph.D.
Sri Rajkumar Jain	Associate Professor	M.Sc.
Dr. O S K S Sastry	Asst. Professor	M.Sc., M.Tech., Ph.D.
Dr. (Ms.) Deepa Seetharaman	Asst. Professor	M.Sc., Ph.D.

Dr. R Gowrishankar	Asst. Professor	M.Sc., Ph.D.
Dr. K Vijay Sai	Asst. Professor	M.Sc., Ph.D.
Mrs. C Prathibha*	Asst. Professor	M.Sc., B.Ed., M.Phil.
Dr. V Sai Muthukumar	Asst. Professor	M.Sc., M.Phil., Ph.D.
Sri Denny Melkay M George	Asst. Professor	M.Sc., M.Tech.
Prof. M Mukunda Rao	Adjunct Faculty	M.Sc., Ph.D.
Dr. (Mrs.) Tanu Ratan	Associate Professor (Part-time)	M.Sc., Ph.D.
Dr. S Jagdish Chandra	Asst. Professor	M.Sc., Ph.D.

* also pursuing Doctoral Research

VISITING FACULTY

Name	Designation / Institution	Course / Topic Covered	Duration
Prof. P C Sood	Dept. of Physics, Benaras Hindu University, Varanasi	Research guidance to Research Scholars	Academic year 2011/12
Prof. Valluri Sree Ram	Dept. of Physics & Astronomy, University of Western Ontario, London, Canada	Quantum Mechanics II & Molecular Spectroscopy	1-30 Jul 2011
Prof. Ramesh Sharma	Dept. of Mathematics, University of New Haven, USA	Tensor Analysis	1 Jun to 7 Aug 2011
Dr. M Narayan Murty	National Institution of Science and Technology, Berhampur	Mathematical Physics, Quantum Chemistry and Group Theory	1-29 Jun 2011
Dr. S Balasubramanian	Lucent Technologies, Holmdel, New Jersey, USA	Broadband communications and information system, wireless communications	18 Jun to 8 Jul 2011
Mr. V Guruswamy	Institute of Remote Sensing, Agra University.	Remote Sensing and Satellite Imaging	10-16 Jul 2011
Dr. V S Sudarshanam	Principal Laser Scientist, Clear Align, Eagleville, Pennsylvania, USA	Applied Optics	10-26 Jul 2011
Prof. A Venkataramani	Retired Principal, Sree Sastha Institute of Engineering & Technology, Chennai	Optical Communications	14-26 Jul 2011
Prof. Krishna M Sivalingam	Dept. of Computer Science and Engineering, Indian Institute of Technology, Chennai	Optical communications	13-30 Jul 2011
Prof. K N Sharma	Chingamakha Kshetri Leikai, Imphal, Manipur	Physics and Technology of Thin films	18 Jul to 25 Sep 2011
Prof. D V G L N Rao	Dept. of Physics, University of Massachusetts, Boston, USA	Advanced topics in Photonics Nonlinear Optics	29 Jul to 1 Aug 2011

Dr. N Sai Shankar	Senior Principal Systems Scientist, Broadcom Corporation, USA	Wireless and Mobile Communications	10-15 Aug 2011
Dr. Chandra Y	University of Massachusetts, Boston, USA	Wireless and Mobile Communications	11 Aug 2011
Dr. S Sivaramakrishnan	Senior Engineering Manager, Analog Devices India Pvt. Ltd., Bangalore	Digital communication and Informative system	18-20 Nov 2-4 and 16-18 Dec 3-5 Jan and 20-22 Jan 17-20 Feb 9-11 Mar
Dr. V Ranga Rao K	Bayer Pharmaceuticals, Germany	Photonic switching and Advanced Networking	4-12 Dec 2011
Prof. Thayaparan	Defence R&D Centre, Canada	Applied Optics	4-8 Dec 2011
Prof. S Krishnamoorthy	Indian Institute of Technology, Chennai	Applied Optics	16-18 Dec 2011
Dr. Gaurav Bhakshi	Hexaware Technologies Ltd., Mumbai	Advanced Optical Networking	30 Dec 2011 to 2 Jan 2012
Dr. Neeleshwar S	Dept. of Physics, Guru Gobind Singh Indraprastha University, Delhi	Nano Science Instrumentation	16-18 Jan 2012
Prof. Jyoti Dhar Sharma	Head, Dept. of Physics, Shoolini University, Himachal Pradesh	Computational Nanoscience	18-30 Jan 2012
Dr. Narender Ailwadi	Alcatel Lucent (formerly AT&T Bells Labs), New Jersey, USA	Photonic Switching and Advanced Networking	2-21 Feb 2012
Dr. Sendra Gonzalo Heman	Univ. of Heidelberg, Germany	Optical Fiber communication	6-21 Feb 2012
Prof. I Rama Rao	President/CEO, East West Enterprises, USA	Research Scholars assistance – Radar Signal Processing	17-20 Feb 2012
Mr. Y Prabhakara Rao	CISCO, Bangalore	Networking	3 Mar 2012
Prof. K Madhusudan Rao	Head, Dept. of Basic Sciences & Humanities, Vignan's Institute of Information Technology, Visakhapatnam	Discussion and Research collaboration in Nuclear Physics Laboratory	1-10 Mar 2012
Dr. A J Letha	National Tsing Hua University, Hsinchu, Taiwan	Nano material application for solar cells	17-19 Mar 2012

WORKSHOPS & CONFERENCES CONDUCTED

Workshop 1

Title: Recent Advances in Photonic Applications

Dates: 28-29 Nov 2011

Venue: Multimedia Centre, SSSIHL, Prasanthi Nilayam Campus

Keynote Address: Prof. A M Rao, Clemson University, USA

Theme of the Conference:

This Conference focused on the recent advances in the field of Photonic applications and the latest trends in the LED and other display device technologies. The main objective of the conference was to provide a platform for scientists, researchers and engineers from across the country and abroad, working in photonics and materials for photonic applications, to disseminate their latest results, allow cross-disciplinary exchange of knowledge and showcase their recent inventions and innovations. The conference thus provided a broad inter-disciplinary reach for discussing and sharing the knowledge on this ever-growing field of photonic applications and for exploiting commercial and research opportunities in the field of photonic applications.

PROGRAMME

DAY 1: Nov 28 2011

Name & Designation	Title of the Talk
Dr. R Gowri Shankar, Asst. Professor, Dept. of Physics, SSSIHL	Convener: Welcome address
Prof. A Sudhir Bhaskar, Director, Prasanthi Nilayam Campus, SSSIHL	Inaugural Address
Prof. A M Rao, Clemson University, South Carolina, USA	Keynote Address: Graphene Photonics & Optoelectronics
Prof. V Lakshminarayan, Raman Research Institute, Bangalore	Disc like liquid crystals for Molecular Electronics and Photonic applications
Prof. B Raghavendra Prasad, Indian Institute of Astrophysics (IIA), Bangalore	Bio-medical Applications of Adaptive Optics
Dr. B V Sarada, International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI), Hyderabad	Electrochemical synthesis and Characterization of Nanostructured materials
Prof. S Neeleshwar, Guru Gobind Singh Indraprastha University, New Delhi	Thermoelectric materials
Sri Amrith Krishna & Sri R Sriram, Optical Networking: II M.Tech. (Applied Optics) students, SSSIHL	Research at SSSIHL: Towards Low Cost turbulence generator for AO testing: Utility, control and stability

DAY 2: Nov 29 2011

Name & Designation	Title of the Talk
Dr. M V Shankar, Honeywell Technologies	Photonic Metamaterials - Challenges, Bottlenecks and Opportunities
Dr. (Mrs.) Tanu Rattan, Nunano Solutions, Bangalore	Ceramic Nanophores and their applications
Prof. B K Panigrahi, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu	Surface Plasmon Resonance & Amplification of Photoluminescence

Prof. A M Rao, Clemson University, South Carolina, USA	Graphene: Synthesis, Optical Properties & Applications
Dr. Jabez Dhinagar, TVS Motors Ltd., Hosur, Tamil Nadu	Automotive Sensors with special reference to Optical Technology based sensors
Sri P Sowmendran, Student, Dept. of Physics, SSSIHL	Research at SSSIHL: NLO properties of Nanostructured materials
Sri B Rajashekar, Student, Dept. of Physics, SSSIHL	Research at SSSIHL: Two-Photon absorption based broadband OL in dianylidene acetone derivatives
Sri Benoy Anand, Doctoral Research Scholar, Dept. of Physics, SSSIHL	Research at SSSIHL: Enhanced OPL in metal-functionalized Graphene hybrids
Prof. A M Rao, Prof. B R Prasad, Dr. M V Shankar, Prof. B K Panigrahi	Panel Discussion: The future of Photonics

Workshop 2

Title: Innovation workshop

Dates: 30 Nov 2011

Venue: Physics Lecture Hall, SSSIHL, Prasanthi Nilayam Campus

Keynote Address: Dr. M V Shankar, Innovation Differentiation Leader, Honeywell Technology Solutions Ltd., Bangalore

This one-day workshop on Innovations was for teaching students the tools & techniques for solving technology problems and creating innovative ideas, thus helping them to prepare for a career in industry and MNCs. This work shop was conducted by Dr. M V Shankar, Honeywell Technology Solutions Ltd., Bangalore. The goal was to expose students to the best in class innovative problem solving techniques such as TRIZ during this innovation workshop.

DEPARTMENTAL COLLOQUIUM

The Department of Physics holds a colloquium at the Institute campus in Prasanthi Nilayam on Friday afternoons, for all department students and faculty members. The objective of the colloquium is to expose students to latest trends in Physics and give them broader understanding of concepts in Physics. It also gives training to students to study, assimilate and present scientific material in a clear and concise manner.

The Colloquium also provides a platform for students to interact with scientists from government labs and industry, and thus learn the areas of application of Physics and technology, to real world.



Date	Presenter	Designation	Topic
16 Jun 2011	Sri P Aditya & Mr. B Santosh	I-M.Sc. students, Dept. of Physics, SSSIHL	Computer Simulation Approach to Testing Fundamental Ideas in Statistical Physics
18 Jun 2011	Dr. R Gowrishankar, Dr. V Sai Muthukumar & Mr. Benoy Anand	Asst. Professors and Doctoral Research Scholar, Dept. of Physics, SSSIHL	Photonics Research in the Dept. of Physics: Nonlinear Optical Spectroscopy and its applications
23 Jul 2011	Prof. Rajendra Singh	Professor, Electrical and computer engineering and Science, Clemson Univ, USA	Sustainable Green Energy for sustainable Global Economic Growth
10 Sep 2011	Prof. Nosh Vodoli	Visiting Professor, SSSIHL	Introduction to Geo-spatial Information Systems (GIS)
12 Nov 2011	Prof. D Sahoo	Professor (Hon.), Dept. of Physics, SSSIHL	Impossible Crystals: 2011 Chemistry Nobel Prize
26 Nov 2011	Sri P Suresh	Doctoral Research Scholar, Dept. of Physics, SSSIHL	Non-Stationary Radar Signal Analysis--Time-Frequency Approach
2 Dec 2011	Dr. V Sai Muthukumar	Asst. Professor., Dept. of Physics, SSSIHL	How one becomes an Innovator-based on HBR
16 Dec 2011	Prof. Dr. S R Subramanya	School of Engineering & Technology, National Univ., San Diego, USA	Nanostructures and manufacturing semiconductors products: Challenges and Opportunities
17 Dec 2011	Dr. K V Ranga Rao	Manager, Formulation Technology, Bayer Health Care, Germany	Drug Discovery-Molecule to Medicine
24 Dec 2011	Dr. S Sivaramakrishnan	MPI, Heidelberg, Germany	Intense laser ionization of atomic systems: Expectations and surprises
21 Jan 2012	Dr. O S K S Sastri	Asst. Professor Dept. of Physics, SSSIHL	An Introduction to Computer Tomography
5 Feb 2012	Prof. D Sahoo	Professor, Dept. of Physics, SSSIHL	An Overview of Quantum Computers
10 Feb 2012	Prof. G Venkataraman	Director (Retd.) Anurag, DST & Former Vice-Chancellor, SSSIHL	Marvels of Nature – 1*
17 Feb 2012	Dr. Sendra Gonzalo Heman	Univ. of Heidelberg, Germany	3D Tracking of marine micro-organisms using holographic microscopy and stereoscopy
2 Mar 2012	Prof. G Venkataraman	Director (Retd.) Anurag, DST & Former Vice-Chancellor, SSSIHL	Marvels of Nature – 2*
9 Mar 2012	Prof. G Venkataraman	Director (Retd.) Anurag, DST & Former Vice-Chancellor, SSSIHL	Marvels of Nature – 3*
12 Mar 2012	Prof. G Venkataraman	Director (Retd.) Anurag, DST & Former Vice-Chancellor, SSSIHL	Marvels of Nature – 4*
16 Mar 2012	Prof. G Venkataraman	Director (Retd.) Anurag, DST & Former Vice-Chancellor, SSSIHL	Marvels of Nature – 5*

* This series of lectures seeks to offer a broad overview of the progress of science in modern times, especially in the twentieth century. The objective of these lectures is to help appreciate better the nuances of science; create a climate for an inter-disciplinary culture and help shape some of our research programs.

WORKSHOPS & CONFERENCES ATTENDED

- Sri Sandeep Patnaik attended and presented papers in the conference on Advances in Polymer materials (APM-2012) organised by Sri Krishnadevaraya University, Anantapur.
- Dr. (Ms.) Deepa Seetharaman attended a Refresher Course in Experimental Physics organized by the Three Academia of Sciences, conducted at Indian Academy of Sciences, Bangalore, Karnataka, 12-28 Oct 2011.
- Dr. R Gowrishankar visited BARC, Mumbai (Prof. N L Misra's Laboratory) to learn and work with TXRF spectroscopy, 3-4 Nov 2011.
- Dr. S Siva Sankara Sai attended the 4th Bangalore Nano conference on "Nanoscience and Technology at the cutting edge", Hotel Lalith Ashok, Bangalore, 8-9 Dec 2011.
- Sri M Muralikrishna presented his research work in the International Workshop on Functional Materials (IWFM-2011) Organised by Drexel University, Philadelphia and hosted by National Institute of Science & Technology, Berhampur, Orissa, 20-22 Dec 2011.
- Prof. Dr. K Venkataramaniah, Dr. R Gowrishankar, Dr. S Deepa and Dr. K Vijay Sai attended and presented their Research work at the DAE-BRNS Symposium on Nuclear Physics organized by Dept. of Nuclear Physics, Andhra University, Visakhapatnam, 26-30 Dec 2011.
- Sri Benoy Anand attended and presented a paper in the International Conference on Nano Science & Technology (ICONSAT), organised by ARCI, Hyderabad, 19-23 Jan 2012.
- Mr. V Lakshman Kumar presented his research paper in the National Conference on Materials for Advanced Technologies – 2012, Gwalior, Feb 2012.
- Dr. R Gowrishankar attended a workshop on "Photon and Ion induced X-Ray Emission Spectroscopy (PIXS)", Karnataka University, Dharwad, 23-25 Feb 2012.

OTHER INFORMATION

Active Collaboration with SSSIHMS

A special project for refurbishing the Gamma Camera used in the Nuclear Medicine department of Sri Sathya Sai Institute of Higher Medical Sciences (SSSIHMS) has been initiated by the Physics department. The faculty members, Prof. D Sahoo, Prof. K Venkataramaniah and Dr. K Vijay Sai are collaborating with Dr. Siva Subramanian, Head, Nuclear Medicine, SSSIHMS on this project.

Industrial Tour for M.Tech. (Applied Optics) students

An industrial tour to Bangalore was organized for the first time by the Department of Physics for all the II M.Tech. (Applied Optics) students. The objective of the Industrial tour was to provide students with a perspective of the current technologies in practice. It was also aimed at building a bridge between academia and industry. The visit also resulted in planting the seeds of a few interesting research problems that could be solved by the students as part of their final year project. The three-day tour took place 3-5 Nov 2011. The companies/institutions visited include CISCO Systems, GE Healthcare, Honeywell, Reliance, LEOS-ISRO and SSSIHMS, Whitefield.

Online Spoken Tutorial Project

A Spoken Tutorial Project training to the M.Sc. and M.Tech. students was conducted in collaboration with Indian Institute of Technology, Mumbai. Dr. K Vijay Sai acted as a coordinator for this initiative. The Spoken Tutorial project is the initiative of the “Talk to a Teacher” project of the National Mission on Education through Information and Communication Technology (ICT), launched by MHRD, Govt. of India. For details one can see <http://spoken-tutorial.org/>. Twenty-five students from the Department of Physics, belonging to M.Sc. (Physics), M.Sc. (Nanoscience and Nanotechnology) and M.Tech (Applied Optics) have attended an online workshop on Free and Open Source Softwares on Scilab, Latex and Linux and successfully qualified in the online test conducted by Indian Institute of Technology, Mumbai.

Faculty Visits to other Universities / Institutions

- Dr. S Siva Sankara Sai visited Sri Krishnadevaraya University, Anantapur, as an External Practical Examiner on 6-7 Apr 2011.
- Dr. S Siva Sankara Sai visited Sri Krishnadevaraya University, Anantapur, as member of selection committee for project fellowship in department of Physics.
- Dr. K Vijay Sai & Dr. S Siva Sankara Sai were invited by Physics department of Sri Krishnadevaraya University, Anantapur to deliver special lectures on the topics – Fourier Transforms, Laser safety and Nuclear Models, 22 Mar 2012.

SPECIAL ACHIEVEMENTS

Prof. Dr. K Venkataramaniah received the first “Sai Krishna Award” for Research in Sciences on 21 Nov 2011. This award has been instituted to honour the top researchers and teachers of SSSIHL each year.

Prof. Dr. K Venkataramaniah received sponsorship from Alexander von Humboldt Foundation for a collaborative project on Atomic Mass Evaluation at GSI Helmholtzzentrum für Schwerionenforschung, Darmstadt, Germany, 1 Apr to 31 May 2012.

Achievement in National level exams:

Name of the Candidate	GATE *	JEST **
Avinash K S	769	
Amrith Krishnan		159

*Graduate Aptitude Test in Engineering

**Joint Entrance Screening Test. Nearly 23 National institutions use this score for selecting candidates for Ph.D. programmes.

All ranks are national (All India Rank)

Awards received at national level

- The paper “Double Pendulum Using a PC” authored by Swathi, Deepa S and Sapna Sharma was selected among the best ten entries in the National Competition on Innovation in Computer Programming (NCICP) organized by the Indian Association of Physics Teachers (IAPT) and subsequently won the first Prize after presentation in the Annual Convention of IAPT held at the Centre for Development of Physics Education (CPDE), University of Rajasthan on 11 Oct 2011.

Active Collaborative Research Projects with National Institutions

- The Physics department has a Collaborative Research Scheme under UGC-DAE Consortium for Scientific Research (UGC-DAE CSR) with Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam, Tamil Nadu. The total outlay of this scheme is Rs

5.67 Lakhs. Prof. K. Venkataramaniah and Dr. R Gowrishankar collaborate with the group headed by Prof. B K Panigrahi of Indira Gandhi Centre for Atomic Research (IGCAR) on “Studies on thermoelectric performance of nanostructured Bismuth Telluride and Lead Telluride Nanocomposites grown via novel solvothermal nanoplate technique”.

- The department has an ongoing collaboration for the last three years in the area of “Nonlinear optical studies of various Nano structured materials” with Raman Research Institute, Bangalore. Dr. S Siva Sankara Sai of the Dept. of Physics worked with Dr. Reji Phillip of Light & Matter Physics Group, RRI.

Active Collaborative Research Projects with International Institutions

- Active research collaboration has been on for the past several years between Department of Physics and Kinard Laboratory of Physics at Department of Physics and Astronomy, Clemson University, SC, USA. Prof. Appa Rao's group of Clemson University collaborates with Prof K. Venkataramaniah, Dr. S. Siva Sankara Sai and Dr. V Sai Muthukumar of the Department of Physics in the areas of Surface Plasmon Coupled Emission (SPCE) and Nonlinear Optical studies of Nano materials.
- The Department of Physics along with the Dept. of Biosciences, SSSIHL has signed a Memorandum of Understanding with Centre for Biologics Evaluation and Research (CBER), Food and Drug Administration (FDA), Bethesda, Maryland, USA. Prof. J. Shashidhara Prasad, Vice-Chancellor; Prof. K. Venkataramaniah and Dr. (Mrs.) Tanu Rattan from the Dept. of Physics, and Prof. R Basavaraju and Dr. B E Pradeep of the Dept. of Biosciences at SSSIHL are collaborating with Dr. Indira K. Hewlett, & Dr Mohan H of CBRE and FDA in the area of “Rapid Diagnosis of *Mycobacterium tuberculosis* using europium based nanoparticles.”

UGC-Basic Science Research (BSR) Fellowships:

- The department of Physics received assistance under the UGC-BSR scheme with a grant of Rs. 20 Lakhs. Additionally, three research fellowships were also received under this scheme.

FACILITIES UPGRADED

- Two important major instruments used in the Nanomaterial synthesis – Autoclave and Planetary Ball Mill – were procured and installed under the DST Nanoscience grant in the Nanoscience Laboratory of the department.
- Digital Oscilloscopes, Fiber optic communication kits, Network trainer kits were procured.
- An Optical Network lab with computing facilities along with optical transceivers has been established.
- Separate Nanoscience and Fiber Optics labs were created. Also installed were 6 and 10 KVA Uninterrupted Power Supply (UPS) covering the Photonics, microprocessor and electronics laboratories.
- LCD projectors were installed in the Physics Lecture halls.
- Facility for Skype sessions with experts from outside was installed in one of the lecture halls of the department.



THRUST AREAS OF RESEARCH

Along with the fundamentals of various branches of traditional Physics, the department has identified the following thrust areas for focussed teaching and research.

- Photonics (Nanophotonics, Biophotonics, Fiber Optics & Nonlinear Optics)
- Nanoscience and Nanotechnology
- Nuclear spectroscopy & Applied Nuclear Techniques
- Signal Processing with special reference to Micro-doppler and Medical instrumentation signals

RESEARCH PROJECTS – COMPLETED

Granting Agency	Principal Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
DST	Dr. S Siva Sankara Sai and Dr. R Gowrishankar Design and Development of Bacteriorhodopsin based optical filters for processing medical images.	2008 - 2011	16.8 Lakhs
Scope: Identification of micro calcifications in the X-ray images is of utmost significance in the case of lung and breast cancers. Hybrid Optical Image processing (OIP) technique is used to identify micro calcifications at an early stage. Digital X-ray data of patients from SSSIHMS, Whitefield, were analysed. Bio engineered material -Bacteriorhodopsin films were used for the non-linear optical Fourier filtering process to obtain edge-enhancement in X-ray images.			
Deliverables: Proto-type gadget was developed for real time non-linear optical Fourier filtering of medical images.			
Social Relevance: Enhancement of quality of medical images is of great importance in diagnosing the diseases at an early stage. X-ray imaging techniques are cost-effective as compared to Computer Tomography (CT) scan and Magnetic Resonance Imaging (MRI) modalities. Enhancement of X-ray images using the Fourier optical image processing technique will thus be a cost effective solution for affordable health care.			

RESEARCH PROJECTS – ONGOING

Granting Agency	Principal Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
DRDO	Prof. K Venkataramanah and Dr. S Siva Sankara Sai Real time motion compensation image enhancement and feature extraction of moving targets in ISAR	2011 – 2014	24.84 Lakhs

Scope: Novel algorithms and methodologies such as adaptive S-method, Hermite S-method, and adaptive local polynomial Fourier transform are proposed to be developed in this project, to compensate for the quadratic and higher order motions to improve performances of the Fourier transform and the standard S-method in ISAR/SAR imaging. The S-method will be modified and improved, and it is expected to provide an enhanced resolution in radar imaging. Results will be validated with simulated and experimental data.

New algorithms will also be developed for the separation of rigid body radar image from micro-Doppler effect caused signal in SAR/ISAR imaging. The proposed method not only can focus distorted SAR/ISAR images, but also can provide additional information about the rotating/vibrating features of the target. It is expected to provide additional and unique target features that are complementary to existing recognition methods.

Deliverables:

- To develop numerical models of radar back-scattering from targets undergoing various time-varying rotational motions in different scenarios;
- To devise time-frequency processing concepts/algorithms for ISAR/SAR image enhancement and physics-based feature extraction;
- To resolve and identify radar micro-Doppler signatures of targets undergoing various micro-motions in different scenarios.

Social Relevance: Air/maritime patrol radars are usually aimed at detecting and locating targets to provide global information on the situation of a geographical area. Most of them operate with a scanning antenna and cover distances extending from several hundred kilometers to horizon. Mere detection and localization of the target is insufficient when the target class is unknown. Ship classification is essential for fishing monitoring, search and rescue, and detection of containers or other lost objects. The class of the aircraft/ship may also provide useful information. Thus, the automatic target recognition, which is the prime objective of this project, is undeniably a major advantage provided by the radar

Granting Agency	Principal Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
DST	Prof. K Venkataramanah and Dr. S Siva Sankara Sai Postgraduate Teaching Programme – M.Sc. in Nanoscience and Nanotechnology	2009 – 2014	162 Lakhs

Scope: Nanotechnology is knowledge intensive and enabling technology that will influence a wide range of products and processes. It will have far-reaching implications for national economy and development. The Department of Science and Technology (DST) launched Nano mission initiative that has been structured in a manner to achieve synergy between the national research efforts of various agencies in this field and launch new programmes in a concerted fashion. Capacity building of the research is of utmost importance for Nano Mission so that India can emerge as a global knowledge hub. Large number of manpower is paying prime attention in research and fundamental aspects of Nano science and training. Under the PG Teaching programme of Nano Mission, a M.Sc. Nanoscience & Nanotechnology program has been initiated to produce trained man power who are well versed in this exciting science.

Deliverables:

- Focused attention in providing effective education and training to students and researchers in diversified fields.
- Emergence of a genuine interdisciplinary research culture for Nanoscale science, engineering and technology.

Social Relevance: Capacity building in this upcoming area of research will be of utmost importance for the Nano Mission so that India emerges as a global knowledge-hub in this field. For this, research on fundamental aspects of Nano Science and training of large number of manpower will receive prime attention. It will strive for development of products and processes for national development, especially in areas of national relevance like safe drinking water, materials development, sensors development, drug delivery, etc. This in turn will forge linkages between educational and research institutions and industry.

Granting Agency	Principal Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
DAE-BRNS	Prof. K Venkataramaniah and Dr. R Gowrishankar Studies on semiconductor metal nano composites as high performance thermoelectric materials	2012 – 2015	24.49 Lakhs

Scope: Thermoelectric materials research has been one of the active fields in the last few years. Many bulk and nanostructured materials are being investigated for efficient thermoelectric performance and potential use in waste heat recovery and power generation applications. In this project we are investigating nano composites of Bismuth telluride, Lead Telluride and Cobalt Antimonide for high performance thermoelectric applications.

Deliverables: Technology and devices that are useful in the energy and defence sectors.

Social Relevance: The ever increasing energy demand and depletion of fossil fuels calls for alternative energy conversion and production technologies. Thermoelectrics materials are used for solid state refrigeration and power generation and are environmental friendly.

Granting Agency	Principal Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
DST	Dr. S Siva Sankara Sai and Dr. R Gowrishankar Study of Optical Power-limiting Characteristics of Bacteriorhodopsin for the Design of Detector protection Systems	2010-2012	27.2 Lakhs

Scope: Bacteriorhodopsin (bR), a photochromic protein, in the purple membrane of a bacteria called '*Halobacterium halotrium*', has attracted the attention because of its unique optical properties such as large optical nonlinearity and excellent thermal- and photo-stabilities. An Optical Power Limiter (OPL) is a nonlinear optical device whose transmittance depends on the incident light intensity. OPL is an useful device for protecting human eyes and optical sensors from damage by lasers/high intensity sources.

Deliverables:

- Exploring Bacteriorhodopsin based optical power limiters for protecting sensitive detectors.
- Comparison of its performance with other OPL materials.

Social Relevance: In the contemporary world, Lasers are ubiquitous in all walks of life. Even a small laser pointer with typical power of 1 milli watt, which is used frequently used by many people, can cause eye damage if the beam is seen directly by the eye. Protection of optical sensors and our own eye from laser light is very important. The project aims to study the use bR films as efficient optical power limiters. It will also compare the performance of bR films with other materials.

Granting Agency	Principal Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
UGC-DAE-CSR	Prof. Dr. K Venkataramaniah (PI) & Dr. R. Gowrishankar (Co-PI) Collaborator: Dr. B K Panigrahi, IGCAR, Kalpakkam, Tamil Nadu Studies on high thermoelectric Performance of Nanostructured Bismuth Telluride and Lead Telluride Nanocomposites grown via solvo-Thermal nano-plating Technique.	2011-13	8.25

Scope: Nano materials find applications in various fields and one of them is thermoelectrics. In this collaborative research project with IGCAR, Kalpakkam, we intend to investigate the thermoelectric performance of two nanostructured materials namely Bi_2Te_3 and PbTe . While synthesis of the materials would be carried out at SSSIHL, the characterisation facilities available in UGC-DAE-CSR Kalpakkam node would be effectively used for studying the performance of these nano materials.

Deliverables: Evaluation of thermoelectric performance of Bismuth Telluride and Lead Telluride Nanomaterials.

Social Relevance: Alternative energy resources are the need of the hour. With fast depleting conventional fossil fuels, new renewable alternate energy resources have to be explored actively for the benefit of the society. Thermoelectric materials provide one such alternative.

Granting Agency	Principal Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
VGST, DST, Karnataka Govt.	Dr. K S Umesh Research based Reforms in Physics Instruction: Teaching and Laboratory	Feb 2012 to Feb 2015	30 Lakhs

Scope: Upgradation of existing Laboratory and classrooms in Physics department; Introduce advanced experiments with new equipments; develop opto-electronics laboratory which would cater also to staff members to initiate research level experiments. Introduce advanced experiments in various branches of Physics.

Deliverables:

- New experiments in the undergraduate laboratory.
- Adopt Innovative teaching methods using smart boards.
- Enhance the learning in classrooms with new demonstrations.



DOCTORAL RESEARCH SCHOLARS

Scholar Name	Area of Research	Research Supervisor(s)
Sri M Muralikrishna	Nanomaterials for Thermoelectric applications	Prof. K Venkataramaniah
Sri Benoy Anand	Study of nonlinear optical properties of Nanostructured materials	Dr. S Siva Sankara Sai and Dr. Reji Philip, Raman Research Institute, Bangalore
Sri P Suresh	Image enhancement, feature extraction and motion compensation using time frequency analysis	Prof. K Venkataramaniah
Sri Sai Kiran Aditha	Synthesis, characterisation and evaluation of $\text{Cu}_2\text{ZnSnS}_4$ for photovoltaic applications.	Prof. K Venkataramaniah
Sri Sandeep Patnaik	Pharmaceutical Nanotechnology	Prof. K Venkataramaniah
Sri L A Avinash Chunduri	Fluorescent Nanomaterials for Bio-medical applications	Prof. K Venkataramaniah

M.Phil. SCHOLARS

Scholar Name	Area of Research	Supervisor
Sri Pradyumna Mulppur	Plasmonics - Surface Plasmon Coupled Emission for sensing applications	Prof. K Venkataramaniah

STUDENT DISSERTATIONS COMPLETED

M.Tech. (Applied Optics)

Scholar Name	Project Title	Supervisor
Anoop Ajayghosh	Telecom Transmission Equipment Configured as a Testing Equipment to Reduce Operational Cost	Dr. R Gowrishankar
A Santhosh	Automatic Load Balancing with ISP Multi-homing	Dr. S Siva Sankara Sai
Nanda Venkata Gopal D	Routing, Wavelength and Spectrum Assignment	Dr. R Gowrishankar
Rituraj Biswal	Emulation of 10G Passive Optical Network	Dr. S Siva Sankara Sai
Oblesh T	Detection of low observable Maneuvering Accelerated Radar Target in the Littoral Environments	Dr. S Siva Sankara Sai
Vivek S	Emulation of 10G Passive Optical Network	Dr. S Siva Sankara Sai

M.Sc. (Physics)

Name	Project Title	Supervisor
Amritha Krishna S	Adaptive optics and its applications	Dr. S Siva Sankara Sai
Avinash K S	Linearity and resolution of Gamma camera	Prof. D Sahoo

K Aditya	Study of "All optical switching" in novel materials	Dr. S Siva Sankara Sai
Kumar Venkataramani	Carbon and Graphene based polymer nanocomposites for Nonlinear optical application	Dr. R Gowrishankar
Prabin Pradhan	Complete automation of Z-scan experimental setup	Dr. S Siva Sankara Sai
Premaditya Chhetri	Electron-Gamma spectroscopic studies in ^{122}Te from the beta decay of ^{122}Sb	Prof. K Venkataramaniah
Romala Sattibabu	Nonlinear optical investigation of organic fluorophores and metallic nanostructures	Dr. R Gowrishankar
Sagar Limbu	Optical power limiting using Azo derivatives and bacteriorhodopsin films	Dr. S Siva Sankara Sai
Sai Vignesh T	Electron –gamma spectroscopic studies in ^{111}Cd from the beta decay of ^{111}Ag	Prof. K Venkataramaniah
Shankaranandh B	Studies of super heavy elements	Prof. P C Sood
Sri Ram R	Optical image processing in medical imaging and multimodal microscopy	Dr. S Siva Sankara Sai
V Sai Krishna	SPCE studies of Rhodamine dyes for ethanol sensing and importance of graphene as a spacer layer	Dr. V Sai Muthukumar

M.Sc. (Nanoscience & Nanotechnology)

Scholar Name	Project Title	Supervisors
Sai Prasad P	Comparison of optical limiting property of graphene and carbon nanotube polymer composite films	Prof Dr. K. Venkataramaniah & Dr. (Mrs.) Tanu Rattan
Rajkiran T G S N	Synthesis and characterization of bismuth telluride and sodium cobaltite	Prof Dr. K. Venkataramaniah & Dr. (Mrs.) Tanu Rattan

Final year B.Sc. Physics (Hons.)

Scholar Name	Project Title	Supervisor(s)
A Sahithi, P Pratyusha & Priya Pariyar	LR, CR, LC and LCR Circuits: Experimental Study and Numerical Analysis	Dr. (Miss) Deepa Seetharaman
V Mridula, J Katyayani, Lisa Nayak & P Sarika	Study of Passive and Active Filters	Dr. (Miss) Deepa Seetharaman
D Utkarsha, Y Lakshmi Bhavitha & M Sai Sruthi	Thermal and Electrical Properties of Copper	Dr. (Miss) Deepa Seetharaman & Mrs. C Prathibha
Y Ramya Tejaswi Itika Kainthla & Rambha Suman	Mechanical Properties of Copper	Mrs. C Prathibha

Shreesha Rao D S & Aditya Kurdekar	Variational Quantum Monte Carlo Method	Sri Denny Melkay M George
G Kashyap & Mit Nayak	Applications of Microcontroller PIC18F4550	Sri Denny Melkay M George
K Jaideep & S Prashanth	Zeeman Effect	Dr. K S Umesh
Lachit Saikia & Shreyas M	Display of Token numbers *	Sri S Nanjundan
Zeelan Basha S & Rajasimha K	Construction of Sinusoidal oscillators *	Sri Raj Kumar Jain
Srivardhan & Vinod Reddy	Determination of Planck's constant *	Sri S Nanjundan
Ashish Kumar Dora & Abhishek H	Design & Construction of Stefan's Constant Experimental Setup *	Sri S Nanjundan
Vibhav Bharadwaj & Vinay Hegde	Project on Electrodynamics	Sri Raj Kumar Jain

* These projects are specifically designed to bring out the end products which can be put to use. The two units of "Display of Token numbers" which were constructed during the course of the project are currently being used in Sri Sathya Sai Institute of Higher Medical Sciences, Bangalore.

RESEARCH PUBLICATIONS

Journal Papers

- Anand B, Ntim S A, Muthukumar V S, Siva Sankara Sai S, Philip R and Mitra S (2011) Improved optical limiting in dispersible carbon nanotubes and their metal oxide hybrids. *Carbon*, 49(14), 4767-4773.
- Gowrishankar R and Venkataramaniah K (2011) Comparison of Trace Element Levels in Fasting and Postprandial Blood Serum Samples. *WebmedCentral Medical Education*, 2(7), 1-8.
- Gowrishankar R, Vijay Sai K, Saravanan M, Magudapathy P, Panigrahi B K, Nair K G M, Divi S M and Venkataramaniah K (2011) Deficiency of Iron, Manganese, Chromium and Zinc in Diabetic Patients of Anantapur District of Andhra Pradesh, India. *Research & Reviews: A Journal of Medicine*, 1(3), 1-11.
- Muralikrishna M, Venkataramaniah K and Valluri S R (2011) The Polylogarithm and the Lambert W functions in thermoelectrics. *Canadian Journal of Physics*, 89, 1171-1178.
- Patnaik S, Muralikrishna M, Gowrishankar R, Rattan T M and Venkataramaniah K (2011) Dissolution enhancement in nano/micro-sized dispersions of Piroxicam with the novel Polymer Soluplus and Polyvinyl Pyrrolidone. *Research & Reviews: A Journal of Pharmaceutical Sciences*, 3, 10-19.
- Sood P C, Vijay Sai K and Gowrishankar R (2011) Structure of Yrast band in the odd-odd deformed nucleus $^{156}_{\text{pm}}$. *Physical Review C*, 83, 057302.057301-057302.057303.
- Podila R, Anand B, Spear J T, Puneet P, Philip R, Siva Sankara Sai S and Rao A M (2012) Effects of Disorder on the Optical Properties of CVD grown Polycrystalline Graphene. *Nanoscale*, 4(5), 1770-1775.

- Rajashekar B, Sowmendran P, Siva Sankara Sai S and Nageswara Rao G (2012) Synthesis, characterization and two-photon absorption based broadband optical limiting in diary lideneacetone derivative. *Journal of Photochemistry and Photobiology A: Chemistry*, 238, 20-23.
- Ramakrishna P, Anand B, West J P, Philip R, Siva Sankara Sai S, Jian H, Skove M, Shiou-Jyh H, Tewari S and Rao A M (2012) Evidence for surface states in pristine and Co-doped ZnO nanostructure: magnetization and nonlinear optical studies. *Nanotechnology*, 22, 095703.
- Deepa S, Vijay Sai K, Gowrishankar R and Venkataramaniah K (2012) The 160.44day 177mLu as a new gamma calibration standard. *Radiation Physics and Chemistry*, 81, 226-231.

Conference Papers

- Gowrishankar R, Muthukumar V, Muralikrishna M, Siva Sankara Sai S, Venkataramaniah K, Rao N, Chen J W, Chen Y Y and Neeleshwar S (26 Jun – 1 Jul 2011) Size Dependent Nonlinear Optical Properties of Copper Oxide Nanostructures: Mutliphoton Based Optical Limiting Applications. *International Conference on Materials for Advanced Technologies (ICMAT 2011)*, Suntec, Singapore.
- Muralikrishna M, Sai Kiran A, Raghavender B, Anand B, Sai Muthukumar V, Rattan T M and Venkataramaniah K (26 Jun – 1 Jul 2011) Solvothermal Synthesis and Nonlinear Optical Properties of Thallium Doped Bismuth Telluride Nanostructures. *International Conference on Materials for Advanced Technologies (ICMAT 2011)*, Suntec, Singapore.
- Muralikrishna M, Sai Kiran A, Rattan T M and Venkataramaniah K (26 Jun – 1 Jul 2011) Synthesis and Spectroscopic Characterization of Band Gap Energy in Transition Metal Selenide Nanostructures. *International Conference on Materials for Advanced Technologies (ICMAT 2011)*, Suntec, Singapore.
- Chunduri A, Rattan T, Muralikrishna M and Venkataramaniah K (26 Jun – 1 Jul 2011) Surfactant Assisted Solution Combustion Synthesis of Nano Gamma Alumina and Its Effect. *International Conference on Materials for Advanced Technologies (ICMAT 2011)*, Suntec, Singapore.
- Pramod M N V V, Shailesh S, Gowrishankar R and Venkataramaniah K (26 Jun – 1 Jul 2011) Pulse Compression To Few-Cycle Durations In Highly Non-Linear Photonic Crystal Fiber. *International Conference on Materials for Advanced Technologies (ICMAT 2011)*, Suntec, Singapore.
- Patnaik S, Muralikrishna M, Rattan T M, Gowrishankar R and Venkataramaniah K (26 Jun – 1 Jul 2011) Dissolution Enhancement in Nanodispersions of Piroxicam with Povidone and Soluplus. *International Conference on Materials for Advanced Technologies (ICMAT 2011)*, Suntec, Singapore.



- Roopashree M B, Vyas A, Krishnan A S, Sriram R, Prasad R B and Siva Sankara Sai S (10 Jul 2011) Towards Low Cost turbulence generator for AO testing: Utility, control and stability. *Adaptive Optics: Methods, Analysis and Applications, OSA Technical Digest (CD) (Optical Society of America, 2011)*, paper JMB5, Toronto, Canada.
- Suresh P, Tayaparan T and Venkataramaniah K (30 Nov – 4 Dec 2011) ISAR Imaging of Moving Targets Based on Reassigned Smoothed Pseudo Wigner-Ville Distribution. *International Radar Symposium India (IRSI-2011)*, Bangalore.
- Suresh P, Tayaparan T and Venkataramaniah K (30 Nov – 4 Dec, 2011) Micro-Doppler Analysis of Rotating Targets using Adaptive S- method. *International Radar Symposium India (IRSI-2011)*, Bangalore.
- Molli M, Salian G D, Aditha S K, Muthukumar S V, Rattan T M, Amrithapandian S, Panigrahi B K and Venkataramaniah K (20-22 Dec, 2011) Vanadium Pentoxide Nanoparticles Based Saturable Absorbers. *International Workshop on Functional Materials Berhampur, Orissa*.
- Deepa S, Rao D R, Kailas S and Venkataramaniah K (26-30 Dec 2011) Gamma ray emission probabilities in $^{153}_{\text{Sm}}$. *DAE Symposium on Nuclear Physics, Andhra University, Vishakapatnam*.
- Deepa S, Rao D R, Kailas S and Venkataramaniah S (26-30 Dec 2011) Precision X-ray energy and intensity measurements with XR-100 CR Si-PIN Photodiode detector. *DAE Symposium on Nuclear Physics, Andhra University, Vishakapatnam*.
- Deepa S, Vijay Sai K, Rao D R, Kailas S and Venkataramaniah K (26-30 Dec 2011) Anomalous conversion of the 113.8 keV transition in $^{175}_{\text{Lu}}$. *DAE Symposium on Nuclear Physics, Andhra University, Vishakapatnam*.
- Vignesh T S, Premaditya P K, Vijay Sai K, Deepa S, Rao D R, Gowrishankar R, Kailas S and Venkataramaniah K (26-30 Dec 2011) Precision Electron-Gamma spectroscopic studies in $^{111}_{\text{Cd}}$. *DAE-BRNS Symposium on Nuclear Physics, Andhra University, Visakhapatnam, Andhra Pradesh*.
- Vijay Sai K, Shankaranand B, Gowrishankar R and Sood P C (26-30 Dec 2011) Features of radioactive series originating from superheavy nuclei. *DAE-BRNS Symposium on Nuclear Physics, Andhra University, Visakhapatnam, Andhra Pradesh*.
- Pfeiffer B, Venkataramaniah K, Czok U and Scheidenberger C (26-30 Dec 2011) On the new GSI Atomic Mass Data Compilation. *DAE BRNS Nuclear Physics Symposium, Visakhapatnam, Andhra Pradesh*.
- Sood P C, Vijay Sai K and Gowrishankar R (26-30 Dec 2011) Isomers configurations in the odd-odd nucleus $^{154}_{\text{Pm}}$. *DAE-BRNS Symposium on Nuclear Physics, Andhra University, Visakhapatnam, Andhra Pradesh*.
- Premaditya C, Vignesh T S, Vijay Sai K, Deepa S, Rao D R, Gowrishankar R, Kailas S and Venkataramaniah K (26-30 Dec 2011) Gamma and conversion electron measurements in $^{122}_{\text{Te}}$. *DAE-BRNS Symposium on Nuclear Physics, Andhra University, Visakhapatnam, Andhra Pradesh*.
- Gowrishankar R, Vijay Sai K and Sood P C (26-30 Dec 2011) Occurrence of isomer pairs in transfermium nuclei. *DAE-BRNS Symposium on Nuclear Physics, Andhra University, Visakhapatnam, Andhra Pradesh*.
- Anand B, Kaniyoor A, Siva Sankara Sai S, Philip R and Ramaprabhu S (19 Jan 2012) Enhanced Optical Limiting in Functionalized Graphene and its Metal hybrids. *International Conference on Nano Science and Technology, Hotel Taj Krishna, Hyderabad*.
- Lakshman K V, Praneeth S T, Sundaresan C N and Janardhana C (27-29 Feb 2012) Nanostructured Ni (II) Curcumin Polymer Derivatives - Synthesis and Study of Their Kinetics for Electro Catalytic Oxidation of Alcohols. *National Conference on Materials for Advanced Technologies – 2012, Gwalior, Madhya Pradesh, India*.

- Patnaik S, Kumar V L, Pandey R K, Praneeth S T, Venkatramaniah R and Janardhana C (16-17 Mar 2012) Synthesis of Pd-PANI Nano-composite Film on Graphite Electrode and its Applications for Ethanol and Formic Acid Fuel Cells. *Advances in Polymer materials (APM-2012)*, Sri Krishnadevaraya University, Anantapur.
- Sai Prasad P, Pradhan P, Muthukumar V S, Rattan T and Venkataramaniah K (16-17 Mar 2012) Optical limiting properties of Gelatin/PVA/PMMA-Carbon Nanotube Polymer Nanocomposite. *Advances in Polymer materials (APM-2012)*, Sri Krishnadevaraya University, Anantapur.
- Venkataramani K, Babu R S, Saiprasad P, Muralikrishna M, Muthukumar S V, Gowrishankar R and Siva Sankara Sai S (16-17 Mar 2012) Synthesis and investigation of Nonlinear Optical properties of PVA-GOLD/Graphene polymer Nanocomposite. *Advances in Polymer materials (APM-2012)*, Sri Krishnadevaraya University, Anantapur.

Chapters in Books

- Muthukumar V S, Podila R, Anand B, Siva Sankara Sai S, Venkataramaniah K, Philip R and Apparao M R (2012) Nonlinear Optical Absorption and Induced Thermal Scattering Studies in Organic and Inorganic Nanostructures in: *Encyclopaedia of Nanotechnology* (pp. 179-183). Springer-Verlag (Heidelberg, Germany). ISBN: 9048197503 (-10) 978-9048197507 (-13).

DEPARTMENT OF CHEMISTRY

VISION

To equip students with in-depth understanding of the fundamentals of Chemistry. To explore and promote translational research on environment, health and energy with specific focus on thrust areas dealing with Sensors & Sensing technology, Bioprocessing & Bio-remediation, Nutraceuticals & Anti-oxidants and Nanotechnology and Plasmonics.



OVERVIEW

The objective of the Department is to bring together related topics that are traditionally treated separately under 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 subjects taught) in innovative ways, is the constant endeavour of the department. A student graduating with an M.Sc. degree in Chemistry, will be exposed to every aspect of the subject - theoretical, applied, instrumental, computational and experimental, in tune with the latest advancements in sciences, which are essential to mould students into able and noble scientists of the future.

COURSES OFFERED

Undergraduate	B.Sc. (Hons.) in Chemistry	
Postgraduate	M.Sc. Chemistry	
Professional	M.Tech. Analytical Methods and Chemical Instrumentation	
Research	M.Phil.	Ph.D.

TEACHING FACULTY

Head of Department: Prof. Chelli Janardhana

Name	Designation	Qualification
Prof. Chelli Janardhana	Professor (Hon.)	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. (Ms.) Rajni Bhandari	Asst. Professor	M.Sc., M.Ed., Ph.D.
Dr. (Mrs.) G Pavana Kumari	Asst. Professor	M.Sc., M.Phil., Ph.D.
Dr. (Mrs.) Sahida Sharma	Asst. Professor	M.Sc., Ph.D.
Dr. B Sivakumar	Asst. Professor	M.Sc., Ph.D.
Dr. R Sai Sathish	Asst. Professor	M.Sc., Ph.D.
Dr. J Krishna Kiran Kumar	Asst. Professor	M.Sc., M.B.A, Ph.D.
Dr. D Rajesh Babu	Asst. Professor	M.Sc., Ph.D.

VISITING FACULTY

Name	Designation / Institution	Course / Topic Covered	Duration
Dr. M Narayana Murthy	National Institute of Science & Technology, Berhampur, Orissa	Mathematics for Chemists to PG students	1-29 Jun 2011
Dr. R C Gopalakrishnan	Texas Tech University, Lubbock, Texas USA	Instrumental Methods	20 Jul to 7 Aug 2011
Prof. Somenath Mitra	New Jersey Institute of Technology, Newark, New Jersey, USA	Interaction with research scholars and research proposals	4-18 Aug 2011
Dr. V Ranga Rao Kanikanti	Bayer HealthCare AG, Germany	Drug Design and Pharmacodynamics to PG students	3-25 Dec 2011
Dr. R K K M Jayanthi	RTI International, North Carolina, USA	Environmental Chemistry	17 Dec 2011
Dr. Nanduri Srinivas	Research Director, Medicinal Chemistry, Aurigene Discovery Technologies Ltd., Bangalore.	Organic Chemistry	18 & 25 Dec 2011, 3, 10, 17 and 24 Mar 2012
Prof. P Natarajan	University of Madras, Chennai	Chemical Kinetics and Fast reactions	15-22 Feb 2012

WORKSHOPS & CONFERENCES CONDUCTED

Title: Convergence in Chemistry

Dates: 6-7 Aug 2011

Venue: Multimedia Learning Centre, SSSIHL, Prasanthi Nilayam Campus

Keynote Address: Prof. Somenath Mitra, New Jersey Institute of Technology (NJIT), Newark, New Jersey, USA

Theme of the Workshop:

The prime goal of this workshop was to explore and promote translational research through the convergence of frontier areas in chemical sciences. The workshop was a humble endeavour to bring together leading researchers and academicians worldwide and synergize their ideas in bringing out translational research with undercurrent purpose of social relevance.

PROGRAMME

DAY 1: Aug 6 2011

Name & Designation	Title of the Talk
Prof. Chelli Janardhana, Professor (Hon.) and Head, Department of Chemistry, SSSIHL	Welcome Address
Prof. J Shashidhara Prasad, Vice-Chancellor, SSSIHL	Inaugural Address
Prof. Somenath Mitra, Professor, New Jersey Institute of Technology, Newark, New Jersey, USA	Keynote Address
Dr. B Sivakumar, Asst. Professor, Department of Chemistry, SSSIHL	Vote of Thanks

SESSION 1	Chairperson: Prof. Somenath Mitra
Dr. Nanduri Srinivas, Research Director, Medicinal Chemistry, Aurigene Discovery Technologies Ltd., Bangalore. (Alumnus, SSSIHL)	Andrographolide, A Versatile Natural product
Dr. T Siva Kumar, Scientist, Aurigene Discovery Technologies Ltd., Bangalore. (Alumnus, SSSIHL)	Alzheimer disease: tau aggregation inhibitors
SESSION 2	Chairperson: Dr. S.Jagadeeswara Rao
Prof. G Jayaraman, School of Biosciences and Technology, VIT University, Vellore, Tamil Nadu	Analysis of Protein Structures by Nuclear Magnetic Resonance Spectroscopy
Dr. E N Prabhakaran., Indian Institute of Science, Bangalore. (Alumnus, SSSIHL)	Peptide models for probing the principles in bio molecules
Dr. G. Sridhar., General Manager-Quality Regulatory, Symrise Private Limited, Chennai, India. (Alumnus, SSSIHL)	Fragrance and Flavour Chemistry
SESSION 3	Chairperson: Dr. B Siva Kumar
Dr. D. Rajesh Babu (Asst. Professor), and Sri S Sai Giridhar (Doctoral Research Scholar), Dept. of Chemistry, SSSIHL	Video show on Bhagawan Baba

DAY 2: Aug 7 2011

Name & Designation	Title of the Talk
SESSION 4	Chairperson: Prof. G Jayaraman
Prof. V Lakshminarayana, Professor, Soft Condensed Matter Laboratory, Raman Research Institute, Bangalore	Electrochemistry of nanomaterials for biosensing and catalysis
SESSION 5	Chairperson: Prof. V. Lakshminarayanan
Dr. Sritulasi Karri Gopala Krishnan, Asst. Professor, Department of internal medicine, Texas Tech. University Health Sciences Centre, Lubbock, Texas, USA	Effect of Methotrexate an anti cancer drug on female reproductive tract of Albino rats
Dr. Vijaya Lakshmi., Deputy Director, Head of Department, Biochemistry/Stem Cell Research, National Institute Of Nutrition, Tarnaka, Hyderabad	Do WNIN/obese Rats have pancreatic stress
SESSION 6	Chairperson: Dr. G. Nageswara Rao
Dr. P. Suresh Kumar., Post Doctoral Fellow, Indian Institute of Science, Bangalore, India	Electron transfer studies in self-organized columnar hexagonal lyotropic liquid crystalline phase
Dr. Dinesh Jagadeshan, Post Doctoral Fellow at the University of Toronto, Canada	Lab on a chip
SESSION 7	Chairperson: Sri Govind Pratap Singh
Dr. Gopal Coimbatore, Adjunct Graduate Faculty, Dept. of Environmental Toxicology, Texas Tech University, Texas, USA. (Alumnus, SSSIHL)	Side Chain liquid Crystalline Polymers

Dr. R Sai Sathish (Asst. Professor), and Sri K M Ganesh (Doctoral Research Scholar), Dept. of Chemistry, SSSIHL	Panel Discussion(Interactions of experts with students)
Dr. S Jagadeeswara Rao, Associate Professor, Dept. of Chemistry, SSSIHL	Valedictory Address
Dr. B Sivakumar, Asst. Professor, Department of Chemistry, SSSIHL	Summary of the conference
Prof. Chelli Janardhana, Professor (Hon.) and Head, Department of Chemistry, SSSIHL	Arati

DEPARTMENTAL COLLOQUIUM

The Department of Chemistry had the following participants representing the Department for the weekly colloquium held in the Multimedia Learning centre of SSSIHL, Prasanthi Nilayam Campus during the academic year 2011/12.

Date	Presenter	Designation	Topic
23 Jun 2011	Sri Govind Pratap Singh	Teaching Assistant, Dept. of Chemistry, SSSIHL	Organo Catalysis
6 Aug 2011	Dr. G Sridhar	General Manager - Quality Regulatory, Symrise Pvt. Ltd., Chennai (Alumnus, SSSIHL)	Fragrance and Flavours
27 Aug 2011	Prof. Govind Rao	Director, Centre for Advanced Sensor Technology, University of Maryland, Baltimore Country, USA	Approaches and examples for Multidisciplinary Research
19 Nov 2011	Sri Abilash Gangula	Doctoral Research Scholar, Dept. of Chemistry, SSSIHL	Plant-Based Gold Nanoparticles as Efficient Catalysts
3 Dec 2012	Sri K M Ganesh	Doctoral Research Scholar, Dept. of Chemistry, SSSIHL	Importance of Water Quality Assessment in Today's Scenario
4 Feb 2012	Sri Sunil Adurty	Doctoral Research Scholar, Dept. of Chemistry, SSSIHL	Multifaceted Applications of Thiourea Derivatives
11 Feb 2012	Sri M Ramakrishna	Doctoral Research Scholar, Dept. of Chemistry, SSSIHL	Studies on Terrestrial and Marine Natural Products

WORKSHOPS ATTENDED

- Dr. (Miss) Rajni Bhandari attended a refresher course on "Chemistry and Chemical Technology with thrust area in Nano Technology and Green Chemistry", Department of Chemical Technology, North Maharashtra University, Jalgaon, 12 Sep to 2 Oct 2011.
- Dr. R Sai Satish attended the "Ramalingaswami Fellows Conclave" organized by the Department of Biotechnology, Ministry of Science & Technology, 11-14 Mar 2012.

SPECIAL ACHIEVEMENTS

Achievement in National level exams

Name of the Candidate	CSIR JRF/NET Rank*	GATE RANK**	Total No. of Exam takers for GATE
Sri Manoj Kumar Jana	JRF 14	20	10608
Sri Dheeraj Kumar Singh	JRF 16	124	
Sri Vivek P	JRF 30	131	
Sri Amara	JRF 45	432	
Sri K Suvratha	JRF 65	637	
Sri Lakshman Kumar V	JRF 69	-	
Sri B Prafulla Chandra	JRF 70	124	
Sri R S Sai Siddhardha	JRF 86	1300	
Sri Rajesh	JRF 105	3034	
Sri Ramkumar C B	LS 24	1311	
Sri Anupam Kumar	-	1354	

* CSIR (Council of Scientific & Industrial Research) | JRF (Junior Research Fellowship) | NET (National Eligibility Test)

** Graduate Aptitude Test in Engineering

All ranks are national (All India Rank)

FACILITIES UPGRADED

A Molecular Bioprocessing Lab (MBL) was established at the Department. Additionally, the following items – that are part of this facility – were procured: Autoclave, Incubator-Shaker, Biological Microscope with imaging system, Refrigerator, Electronic weighing balance, pH meter and Metrohm Prof IC Auto sampler Model 863.



THRUST AREAS OF RESEARCH

Sensors & Sensing technology

- Water quality monitoring
- Coronary heart disease markers

Bioprocessing and Bio-remediation

- Cellulolytic enzymes from indigenous fungi.
- Microbes fortified biosorbents for water treatment.
- Bio-synthesis of β -cyclic glucans.

Nutraceuticals & Anti-oxidants

- Mushrooms with nutraceutical and anti-oxidant properties.
- Mushrooms enrichment with essential minerals
- Co-crystal engineering to help repurposing of drugs.

Nanotechnology and Plasmonics

- Metal decorated Carbon nanostructures for catalytic applications.
- Generation of plasmonic structures for studies on SPCE, SERS and MEF.

Inter-departmental collaborative research projects with the sister institutions like Sri Sathya Sai Institute of Higher Medial Sciences (SSSIHMS), Prasanthigram, Andhra Pradesh and Whitefield, Bangalore, Karnataka are being undertaken to complement the 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 – COMPLETED

Granting Agency	Principal Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
UGC	Dr. C N Sundaresan Development of new semi-conducting and fluorescent nanomolecules based on oligothiophenes.	Mar 2009 to Mar 2011	1 Lakh
Scope: New semi conducting and fluorescent polythiophene based nanomolecules were to be developed.			
Deliverables: The intermediates in the synthesis of these molecules were highly unstable. Two alternate synthetic routes under different conditions were also unsuccessful, as they could not lead to the desired products.			

Granting Agency	Principal Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
CSIR	Dr. C N Sundaresan & Dr. G Nageswara Rao Supramolecular helicates, sub-component assembly and dynamic investigations.	Aug 2008 to Dec 2012	8.1 Lakhs
<p>Scope: The utility of sub-component self-assembly in formation of metal directed helicates has been proved successfully by Nitschke in his Cu(I) directed helicates. However the ability to introduce multiple binding modes into a supramolecular design in a dynamic regime is a less targeted area. Supramolecular helicates based on interactions leading to kinetically stable assemblies formed by non-labile coordinate interactions were studied to some extent. It would however be desirable to study helicates based on dynamic interactions in order to explore ligand exchanges, opening of helix and self-assembly of such systems.</p> <p>Deliverables: Exploring various facets of a multicomponent, dynamic supramolecular helical motif-their formation by subcomponent self-assembly, supramolecular proliferation and their dynamic nature by ligand/metal exchange studies.</p> <p>Social Relevance: The interest in supramolecular helical coordination complexes or helicates is primarily due to their potential application in enantioselective processes, designing optical devices and magnetic materials, probing DNA structures, and understanding helical self-organisational processes operative in nature.</p>			

RESEARCH PROJECTS – ONGOING

Granting Agency	Principal Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
Department of Biotechnology	Dr. R Sai Sathish Application of plasmonic technologies and microbes-fortified biosorbents for efficient integrated bioprocessing.	1 Mar 2011 to 29 Feb 2016	Rs. 74.4 Lakhs
<p>Scope: The main goal of this proposal is to develop low-cost technologies for enhanced bioethanol production from renewable resources than current existing systems.</p> <p>Deliverables:</p> <ul style="list-style-type: none"> Development of highly sensitive and accurate optical ratiometric alcohol sensor in yeast-based alcohol fermentations with the use of novel plasmonic techniques. Production of a low-cost cellulolytic enzyme system in mixed-culture solid-state fermentation (SSF) of groundnut shell (GNS) and subsequent saccharification of paddy husk (PH) for bioethanol production. Preparation and application of microbes-fortified biosorbent nano materials for industrial waste water treatment such as alcohol distilleries. <p>Social Relevance: The successful completion of this project will result in an indigenous technology for low-cost bioethanol production. The proposed environmental-friendly technologies will boost the rural economy by generating additional revenues to the paddy and groundnut farmers. The successful low-cost sustainable model can be easily replicated in other regions in the country. Implementation of this research proposal will significantly contribute to make bio-economy a reality and add to the Indian government-supported biodiesel demonstration project that has boosted rural employment in terms of 36.8 million person-days in seed collection and 3680 person-years in running seed collection and oil-extraction centres.</p>			

Granting Agency	Principal Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
Department of Science & Technology	Dr. R Sai Sathish Application of plasmonic technologies and microbes-fortified biosorbents for a low-cost integrated approach to water treatment.	19 Jul 2011 to 18 Jul 2014	24.95 Lakhs
Scope: The goal of this proposal is to develop an integrated approach to water treatment with the design of a near-real time, low-cost platform with significantly high accuracy and sensitivity than existing systems.			
Deliverables: <ul style="list-style-type: none"> Development of highly sensitive and accurate low-cost optical sensor and biosensor devices for analysis of multiple components in untreated water samples with the use of novel plasmonic techniques. Preparation and application of microbes-fortified biosorbent nano materials for water treatment. 			
Social Relevance: The successful completion of this project will result in an indigenous technology for water treatment that is closer to everyday use. The inexpensive, robust, high-sensitivity platform has potential applications for the screening of chemical species in biotechnology, medicine and the environment. The fulfillment of the objectives presents a viable material; bio-filter for water treatment in the Anantapur district of Andhra Pradesh.			

Granting Agency	Principal Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
UGC	Dr. S Jagadeeswara Rao Fluorometric and Photometric Methods to Determine Transition Metals Present in Tracer Levels using Novel Chemosensors	1 Feb 2011 to 31 Feb 2013	0.95 Lakhs

Granting Agency	Principal Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
UGC	Dr. G Nageswara Rao Antioxidant activity and Nutraceutical potential of indigenous edible mushroom (<i>Calocybe indica</i>)	1 Feb 2010 to 1 Feb 2013	4.43 Lakhs
Scope: <i>Calocybe indica</i> is an indigenous edible mushroom cultivated in many parts of South India. Consumers do not have any awareness of the health benefits of this mushroom because no information about the nutrients and nutraceutical potential is available on this mushroom. This study helps to create the Nutraceutical profile of this edible mushroom.			
Deliverables: This study helps to know the antioxidant activity, protein, mineral, vitamin, sugar content, fatty acid profile and other nutraceutically important constituents of this edible mushroom.			
Social Relevance: Knowledge of the antioxidant activity and neutraceutically important compounds present in this mushroom will help in increasing the awareness among people about its health benefits. This will further increase the demand for this mushroom.			

Granting Agency	Principal Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
DBT	Prof. Chelli Janardhana Development and validation of an indigenous assay for Lp-PLA₂ and identifying Indians at risk for early onset of coronary artery disease.	Jan 2011 to Jan 2014	10.94 Lakhs

POST-DOCTORAL RESEARCH FELLOW

Scholar Name	Qualification	Area of Research
Dr. S Prathap Chandran	M.Sc. (Chem.), Ph.D.	Colloids (synthesis, surface modification and assembly in to long-range structures or colloidal molecules) and colloid-LC composites

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 M Ramakrishna	Studies on Terrestrial and Marine Natural Products	Dr. G Nageswara Rao
Sri S Sai Giridhar	Lp-PLA ₂ : A study of its role in Coronary Artery disease in Asian Indians and Novel detection methods using nano bio-sensors	Prof. Chelli Janardhana
Sri Abilash G	Gold nanoparticles for environmental and biological applications	Prof. Chelli Janardhana
Sri K M Ganesh	Economically viable water quality monitoring system and eco friendly approach to water treatment in rural areas with special focus on fluoride ion	Prof. Chelli Janardhana
Sri K Naga Sai Visweswar	Biosynthesis and applications of cyclic β -(1 \rightarrow 3), (1 \rightarrow 6) glucans produced by <i>Bradyrhizobium japonicum</i>	Prof. Chelli Janardhana



M.Phil. SCHOLARS

Scholar Name	Thesis Title	Supervisor
Sri Sai Giridhar Sarma Kandanur	Solid form Characterisation and Molecular complexation studies of Forskolin	Dr. K Anil Kumar
Sri R S Sai Siddhardha	Novel synthesis of nanostructured materials for catalytic and sensing applications	Dr. R Sai Sathish

PROJECTS AND DISSERTATIONS COMPLETED

M.Sc. Chemistry Dissertations

Scholar Name	Project Title	Supervisor
Sri Chelli Sai Manohar	Molecular Docking approach in evaluating activity of Camptothecin and its derivatives on DNA topoisomerase I	Dr. B Sivakumar
Sri S Ghajesh	Exploring the use of Spent Mushroom Substrates for the removal of Lead from Aqueous Solutions	Dr. D Rajesh Babu
Sri M Sai Kiran	Invitro Studies Of Antioxidant Activity of Five Edible Mushrooms	Dr. D Rajesh Babu
Sri Rajesh	Bioremediation of Pb(II) using fungal fortified biosorbents and biosynthesis of gold nanoparticles	Dr. R Sai Sathish
Sri Pradeep Kumar Badiya	Effect of particle size on enzymatic hydrolysis through solid state fermentation of groundnut shell with <i>Aspergillus Oryzae</i>	Dr. R Sai Sathish
Sri Manoj Kumar Jana	Synthesis and study of catalytic properties of biogenic anisotropic nanoparticles	Dr. R Sai Sathish
Sri Ramkumar C B	Synergistic effect of biogenic silver and gold nanoparticles with antibiotics	Dr. R Sai Sathish
Sri M Anupam Kumar	Determination of Trace Quantities of Rhodium(III) by a Catalytic Method	Dr. S Jagadeeswara Rao
Sri B Prafulla Chandra	Catalysis of Heck reaction with Pd loaded functionalised multiwalled Carbon Nanotubes	Dr. G Nageswara Rao
Sri Pola Jeevan Kumar	Synthesis, crystal growth, Non linear Optical properties and transition metal complexes of dibenzylidene cyclohexanone Derivatives	Dr. G Nageswara Rao
Sri Santhosh B	A sensitive colorimetric assay for thiourea based on Non-Cross linking Aggregation of Gold Nano particles	Prof. Chelli Janardhana
Sri Vivek P	Thiourea induced Anisotropic self assembly of gold nanoparticles: A rapid and sensitive way of identification of electrostatically stabilised Gold Nanoparticles	Prof. Chelli Janardhana

Sri Dheeraj Kumar Singh	2-Guanidinibenzimidazole as a novel and versatile ligand for mercuric ion sensing.	Dr. C N Sundaresan
Sri S Venkatesh	Synthesis of nano thin films and biogenic nanoparticles for their collusion with drugs against pathogens	Dr. R Sai Sathish

RESEARCH PUBLICATIONS

Journal Papers

- A Abilash G, Ramakrishna P, Ramakrishna M, Lohith K, Janardhana C and Apparao M R (2011) Catalytic Reduction of 4-Nitrophenol using Biogenic Gold and Silver Nanoparticles Derived from *Breynia rhamnoides*. *Langmuir*, 27, 15268-15274.
- Rao N G and Rajshekar B (2011) (1E,4E)-1,5-Bis(thiophene-3-yl) penta-1,4-dien-3-one. *Acta Crystallographica Section-E Structure Reports Online*, E67, 02354.
- Reddy V T, Kumari P G and Suresh S (2011) Reverse Phase High Performance Liquid Chromatographic Determination Of Primidone Tablets. *International Journal of Chemical Engineering*, 4(2), 129-132.
- Reddy V T, Kumari P G and Suresh S (2011) Spectrophotometric Determination of Doxycycline using Mo (VI), Th (IV) & U (VI). *International journal of Phamaceutical Formulation and Analysis*, 2(2), 87-88.
- Sunil A and Rao J S (2012) Eco-friendly approach for a facile synthesis of o-hydroxyphenylthiourea and its property as an analytical reagent in sensing mercury(II). *Research Journal of Chemical Sciences*, 2(3), 30-40.
- Sunil A and Rao J S (2012) Novel Method using o-hydroxyphenyl thiourea for cadmium sensing in water samples. *International Journal of Current Research*, 4(2), 210-215.
- Rajashekar B, Sowmendran P, Siva Sankara Sai S and Rao N G (2012) Synthesis, Characterization and Two-photon absorption based broadband optical limiting in diarylideneacetone derivative. *Journal of Photochemistry and Photobiology A: Chemistry*.
- Sivakumar N, Arvind B and Sundaresan C N (2012) Sustainable Supply Chain Excellence : A Biomimetic approach. *The IUP journal of Supply Chain Management*, 9(1), 21-39.
- Sunil A and Rao J S (2012) Surfactant based fluorometric sensing of copper at picogram level using o-hydroxyphenylthiourea with pyridine as activator. *International Journal of Chemical and Analytical Science*, 3(2), 1318-1321.

Conference Papers

- Babu R D, Suvratha K, Chand T V, Rao N G and Pandey M (7-9 Jul 2011) Kinetic and Equilibrium Studies of Biosorption of Cd(II) from Aqueous Solution using Spent Mushroom Substrate. *International Conference on Impact of Physical Sciences on Biology (ICIPB)*, Queen Mary's College, Chennai.
- Ganesh K M and Janardhana C (2-3 Sep 2011) Fluoride – A deterrent to Healthy and Skeletal Condition of Adolescents. *An Interdisciplinary National Seminar on Nutrition and Health Care of Adolescent Girls*, Jamshedpur Women's College, Jamshedpur.
- Rao N G, Ramakrishna M, Rajesh S, Mishra R K and Dikshit A (7-9 July 2011) Phylogenetic assessment of antibacterial action of the flowers of *Acacia nilotica* L. *International Conference on Impact of Physical Sciences on Biology (ICIPB)*, Queen Mary's College, Chennai.
- Sunil A and Rao J S (24-25 Oct 2011) Green synthesis of OHPTU: A one-pot synthesis using non-classical energy forms. *National Seminar on Chemistry and Global Perspectives*, Sri Krishnadevaraya University, Anantapur, Andhra Pradesh.
- Abilash G and Janardhana C (9-11 Nov 2011) Catalytic Reduction of 4-Nitrophenol using Biogenic Gold Nanoparticles Derived from *Breynia rhamnoides*. *International Workshop on Soft Matter Chemistry*, Raman Research Institute, Bangalore.
- Sunil A and Rao J S (29-30 Dec 2011) Mercury(II) sensing in water samples using fluorescence quenching mechanism of o-hydroxyphenylthiourea. *National Conference on Interface Between Chemical Sciences and Technologies*, National Institute of Technology, Warangal, Andhra Pradesh.
- Visweswar K N S, Janardhana C and Mukesh D (29-30 Dec 2011) Biosynthesis and applications of Cyclic β -(1,3),(1,6)-Glucans produced by *Bradyrhizobium japonicum*: Isolation, Characterization and Preliminary Studies of Medium Optimization for Yield Enhancement. *National Conference on Interface Between Chemical Sciences and Technologies*, National Institute of Technology, Warangal, Andhra Pradesh.
- Kumar L V, Praneeth S T, Sundaresan C N and Janardhana C (29 Feb 2012) Synthesis and study of their kinetics for electrocatalytic oxidation of alcohols. *National Conference on Material Sciences for Advanced Technologies*, A B Vajpayee Institute of Information Technology, Gwalior.
- Abilash G, Vivek P, Santosh B and Janardhana C (13-16 Mar 2012) Thiourea Induced Anisotropic Self-Assembly of Gold Nanoparticles: A Facile, Rapid, and Sensitive Assay for Electrostatically Stabilised Gold Nanoparticles. *International Conference and Workshop on Nanostructured Ceramics and Other Nanomaterials*, University of Delhi, New Delhi.



DEPARTMENT OF BIOSCIENCES

VISION

The vision of the Biosciences Department is two-fold:

- To equip students with fundamental knowledge of classical and advanced topics in Life Sciences.
- To train students in modern, essential laboratory techniques and skills, with specialized focus on Molecular Biology, Biochemistry and Biotechnology.



OVERVIEW

The curricula of the undergraduate and postgraduate programme offered by the Department of Biosciences equip students with fundamental knowledge in both classical and advanced topics in the discipline of biological sciences. The courses are extensive and are updated regularly to keep abreast of the latest developments in the field. The practicals are designed keeping in view the applications of the topics covered in the theory courses. The department endeavours to produce postgraduate students well-versed in the nuances of frontier areas in the life sciences, both in terms of theoretical knowledge and hands-on laboratory skills.

The department is currently being supported by UGC-SAP-DRS (level II); DST-FIST and DBT-BIF programmes sponsored by national level funding agencies. The department organizes colloquia, workshops, symposia and conferences to provide opportunities for students and faculty members to keep themselves updated with the latest trends in 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

Name	Designation	Qualification
Prof. S Krupanidhi	Professor	M.Sc., Ph.D.
Prof. T N Lakhanpal	Professor (Hon.)	M.Sc., Ph.D.
Prof. S S Rajan	Professor (Hon.)	M.Sc., Ph.D.
Dr. R Basavaraju	Professor (Hon.)	M.Sc., Ph.D.
Dr. K V Srinivas	Professor (Hon.)	M.Sc., Ph.D.
Sri K Anil Kumar	Associate Professor (Hon.)	B.Sc. (Hons.)
Dr. B S Vijayakumar	Associate Professor	M.Sc., Ph.D.
Sri K Srinivasan	Associate Professor (Hon.)	M.Sc., M.Phil.
Mrs. M Ramasundari	Associate Professor (Hon.)	M.Sc., M.Phil.
Dr. (Ms.) Seethalakshmi Laxmanan	Associate Professor (Hon.)	M.Sc., Ph.D.
Dr. A Ashok	Asst. Professor	M.Sc., Ph.D.
Mrs. G Jayaprada	Asst. Professor (Hon.)	M.Sc.
Miss Isha Sai*	Asst. Professor	M.Sc.
Dr. B E Pradeep	Asst. Professor	M.Sc., Ph.D.
Sri A S Vishwanathan*	Asst. Professor	M.Sc., M.Phil.
Sri K K Sai Anand	Asst. Professor	M.Sc., M.Phil.

Dr. (Miss) Vijeyakumary Vijayaratnam	Teaching Assistant	M.Sc., Ph.D.
Sri P Sujith Kumar*	Teaching Assistant	M.Sc.
Ms. G Supraja	Teaching Assistnat	M.Sc.
Miss B Anusha	Teaching Assistant	M.Sc.
Miss A V B S Vijayasree	Teaching Assistant	M.Sc.

* also pursuing Doctoral Research

VISITING FACULTY

Name	Designation / Institution	Course / Topic Covered	Duration
Prof. Anupam Dixit	Department of Botany, Allahabad University, Allahabad, U.P.	Molecular Systematics and Plant Taxonomy	1 Jun to 1 Jul 2011
Dr. Scot Doughman	University of North Carolina, Chapel Hill, USA	Molecular Biology and Molecular Evolution	12-22 Jun 2011
Dr. Arun Sreekumar	Department of Molecular and Cell Biology, Baylor College of Medicine, Houston USA.	Interaction with Ph.D. students and research proposals	6-12 July 2011
Prof. Raj Raghupathy	Dept. of Microbiology, Kuwait University, Kuwait	Interaction with students and interaction to strengthen practicals for immunogenetics experiments	1-6 Aug 2011 and 23-29 Dec 2011
Dr. (Mrs.) R Malathi	Centre for Bio-Technology, Anna University, Chennai	Structural Bioinformatics	19 -20 Dec 2011
Dr. Ganesh Iyer	Dept. of Life Sciences, Ramnarain Rula College, Mumbai	Biotechnology to Undergraduate students at Brindavan Campus	27-31 Dec 2011
Dr. Manu Jatana	CEO, Mediaids Lifesciences, Chandigarh	Immunology and practical sessions	17-25 Jan 2012
Prof. M Sivakumar	University of Wollongong, Australia	Environmental Biotechnology to PG students	26 Jan to 12 Feb 2012
Prof. Govind Rao	Director, Centre for Advanced Sensor Technology, University of Maryland, Baltimore Country, USA	Research Supervisor to Doctoral Research Scholars	25-30 Aug 2011 and 12-14 Feb 2012
Dr. John J Kineman	Senior Research Scientist, Coop. Institute for Research in the Env. Sciences, University of Colorado, Boulder, Colorado, USA	Interaction with Ph.D. students	25 Aug to 25 Oct 2011 14 Feb to 27 Mar 2012
Prof. George Ordal	Dept. of Biochemistry, University of Illinois, USA	Biochemistry – Enzymology to PG students	26 Nov 2011 to 4 Jan 2012

Prof. N Venkata Rao	Environment Canada, Toronto, Canada	Environmental Biotechnology	1 Dec 2011 to 1 Jan 2012
Dr. (Mrs.) Vijayalakshmi Venkatesan	Deputy Director, National Institute of Nutrition, Hyderabad	Instrumentation Techniques and Bioinformatics, Developmental Biology, Immunology	17-18 Sep 2011 27 Jan 2012 24 Mar 2012

WORKSHOPS & CONFERENCES CONDUCTED

Title: Hands on Training Workshop on Laboratory Techniques in Molecular Biology and Biochemistry

Dates: 26-30 Jan 2012

Venue: Multimedia Centre and Department of Biosciences, SSSIHL, Prasanthi Nilayam Campus

Keynote Address: Sri K Rama Rao, Indian Immunologicals Ltd.

Theme of the Conference:

The Department of Biosciences conducted a workshop under the support of UGC SAP DRS Level II to train postgraduate students in the latest cutting edge techniques in the fields of Molecular biology and Biochemistry. The unique aspect of this workshop is that several interested staff from SSSIHMS-PG also participated and gained experience in these techniques. With this aim we had several practical hands on training sessions along with oral presentations from eminent scholars as well as alumni of the department.

During the course of the workshop the students were trained in Bacterial cell culture, plasmid DNA extraction, DNA modification using restriction endonucleases, DNA amplification using PCR, Gel electrophoresis, Bacterial transformation, Protein Over-expression and purification using IMAC columns and Protein quantification using Bradford method.

Finally, all the participants have been given certificates.

PROGRAMME

DAY 1: Jan 26 2011

Name & Designation	Title of the Talk
Prof. S Krupanidhi, Head, Dept. of Biosciences and Dean of Sciences, SSSIHL	Welcome and Introductory remarks
Prof. J Sashidhara Prasad, Vice-Chancellor, SSSIHL	Inaugural Address
Sri K Rama Rao, Indian Immunologicals Ltd.	Key Note Address
Dr. B E Pradeep, Asst. Professor, Dept. of Biosciences, SSSIHL	Vote of Thanks
Dr. (Mrs.) Vijayalakshmi Venkatesan, Deputy Director, National Institute of Nutrition, Hyderabad	Stem cells and their applications
Dr. D C Sundaresh, Professor of Orthopaedics and Medical Director, M S Ramaiah College Hospital, Bangalore	Osteocartilaginous defects
Dr. Prakash Khanchandani, Orthopedic surgeon, SSSIHMS	Autologous Chondrocyte Implantation
Sri K Rama Rao, Indian Immunologicals Ltd., Hyderabad	Vaccines and Vaccinations

Prof. V Nagaraja, Chairman, Dept. of Department of Microbiology and Cell Biology, Bangalore	Scientific Writing skills I – Research Grants and thesis
Sri Kamesh Janakiraman, Alumnus, SSSIHL	Bio-informatic tools and their applications
Sri K Rama Rao, Indian Immunologicals Ltd., Hyderabad	In-vivo and In-vitro testing of vaccines
Prof. S Krupanidhi, Head, Dept. of Biosciences and Dean of Sciences, SSSIHL	Introduction to Practical sessions
Sri K Rama Rao, Indian Immunologicals Ltd., Hyderabad	Personal career and Quality improvement

DAY 2: Jan 27 2011, Technical Session I

Name & Designation	Title of the Talk
Sri A S Vishwanathan (Asst. Professor) & Sri Ghanta Prasanth (Doctoral Research Scholar), Dept. of Biosciences, SSSIHL	Preparation of Competent Cells, Bacterial Transformation and Plating
Sri S B Sai Krishna & Sri Vennel Raj, Doctoral Research Scholars, Dept. of Biosciences, SSSIHL	DNA amplification by Polymerase Chain Reaction
Sri S B Sai Krishna (Doctoral Research Scholar) & Sri Vijaya Sai (M.Phil. Student), Dept. of Biosciences, SSSIHL	Agarose Gel Electrophoresis
Dr. B E Pradeep (Asst. Professor), Sri P Sujith Kumar (Teaching Assistant) & Sri Sai Malleswar V N R (Doctoral Research Scholar), Dept. of Biosciences, SSSIHL	Mini Prep Plasmid Extraction, Restriction Digestion, Gel extraction – Ligation, Transformation
Sri Aswath Narayanan S (Doctoral Research Scholar) & Sri Sai Murali R S (Teaching Assistant), Dept. of Biosciences, SSSIHL	Inoculation of Bacteria for Mini Prep and Protein expression experiments

DAY 3: Jan 28 2011, Technical Session II

Name & Designation	Title of the Talk
Sri Vennel Raj, Sri Sai Malleswar V N R & Sri K N Naresh, Doctoral Research Scholars, Dept. of Biosciences, SSSIHL	Observation of Transformed cells, Preparation of cell lysate from induced cells
Prof. D N Rao, Indian Institute of Science, Bangalore	Principles of Protein Purification
Sri K N Naresh & Sri S B Sai Krishna, Doctoral Research Scholars, Dept. of Biosciences, SSSIHL	Purification of His-Tagged protein using IMAC column / Observation of Agarose Gel / Documentation
Prof. D N Rao, Indian Institute of Science, Bangalore	Scientific Writing skills II – Journal articles
Mr. M Chakravarthy, Alumnus, SSSIHL	Hands on experience – PERL

DAY 4: Jan 29 2011, Technical Session III

Name & Designation	Title of the Talk
Dr. Prakash Khanchandani, Orthopedic surgeon, SSSIHMS & Sri Ashwath Narayan, Doctoral Research Scholar, Dept. of Biosciences, SSSIHL	Animal Cell Culture – Cartilage Culture: Technique to Isolate cartilage tissue
Sri Sai Malleswar V N R, Sri K N Naresh (Doctoral Research Scholars) & Sri P Sujith Kumar (Teaching Asst.), Dept. of Biosciences, SSSIHL	SDS-PAGE – casting gel – Protein Sample - Preparation - Loading
Sri K N Naresh & Sri Sai Malleswar V N R, Doctoral Research Scholars, Dept. of Biosciences, SSSIHL	Protein estimation by Bradford method
Sri K N Naresh (Doctoral Research Scholar) & Mr. A S Vishwanathan (Asst. Professor), Dept. of Biosciences, SSSIHL	Observation and Documentation of the Protein and DNA Gels. Use of Image J software

DAY 5: Jan 30 2011, Technical Session IV

Name & Designation	Title of the Talk
Dr. B E Pradeep (Asst. Professor), & Sri Aswath Narayan (Doctoral Research Scholar), Dept. of Biosciences, SSSIHL	Preparation of Chondrocytes from Cartilage
Dr. R Manjunath, Indian Institute of Science, Bangalore	Immunological techniques and applications
Dr. H V Batra, Defence Food Research Laboratory, Mysore, Karnataka	Molecular approaches for detection and identification of pathogens
Dr. R Manjunath, Indian Institute of Science, Bangalore	Q & A session regarding career opportunities in biological sciences
Video presentation on Bhagawan and vote of thanks	



DEPARTMENTAL COLLOQUIUM

The Department organized a colloquium throughout the academic year. The colloquium provided a platform for interaction between students, research scholars and staff members of the department. It included talks by students, research scholars and staff members, panel discussions and scientific, educative video presentations in advanced areas of Biosciences.

Date	Presenter	Designation	Topic
6 Aug 2011	Video Presentation	-	TED talk: Janine Benyus shares nature's designs
20 Aug 2011	Dr. S Siva Sankara Sai	Head, Dept of Physics, SSSIHL	Multimodal imaging Microscope (MIM) using optical image processing
17 Sep 2011	Video Presentation	-	Human senses - Touch and vision
21 Jan 2012	Dr. Manu Jatana	CEO, Mediaids Lifesciences, Chandigarh	Role of non-inflammatory drugs on neurological disorders
04 Feb 2012	Sri Prasanth Ghanta	Research Scholar, Dept. of Biosciences, SSSIHL	Gene silencing - Role of miRNA - Cross kingdom gene regulation
11Feb 2012	Sri S Aswath Narayan	Research Scholar, Dept. of Biosciences, SSSIHL	Gold nanoparticles enhance the anti-leukemia action of a 6-Mercaptopurine chemotherapeutic agent
11Feb 2012	Sri K N Naresh	Research Scholar, Dept. of Biosciences, SSSIHL	Operation and maintenance of a UV-Vis spectrophotometer
18 Feb 2012	Sri Abhishek Gahatraj	Student, I M.Sc., Dept. of Biosciences, SSSIHL	The hidden world behind human vision
18 Feb 2012	Sri Giresh Bhardwaj	Student, I M.Sc., Dept. of Biosciences, SSSIHL	Zombie ants
25 Feb 2012	Sri Sai Krishna S B	Research Scholar, Dept. of Biosciences, SSSIHL	An overview of Immunogenetics
17 Mar 2012	Dr. John Kineman	Research Scientist, Cooperative Institute for Research in Environmental Science, University of Colorado, USA	Introduction to Ecological informatics
17 Mar 2012	Sri Sai Malleswar V N R	Research Scholar, Dept. of Biosciences, SSSIHL	Applications of GIS in Biology

WORKSHOPS ATTENDED

- Mr. V N S Malleswar D, along with Dr. John Kineman, visiting professor, Clark university, USA, conducted a workshop on "Methods for Geographical Ecology", supported by Ashoka Trust for Research in Ecology and the Environment (ATREE), Guwahati, Assam, 19-20 Mar 2012. Hands on training and talks were delivered to 25 selected researchers and staff from the northeast region.

SPECIAL ACHIEVEMENTS

Sri K N Naresh

Shortlisted to participate in the Annual Research Awards competition organised by Dr. K V Rao Scientific Society, Hyderabad.

Sri Sai Murali R S

Received a First Prize for the Best Poster presentation at the International Conference on Impact of Physical Sciences on Biology, Queen Mary's College, Chennai held during 7-9 July 2011 for his paper "Ecomorphometric studies on *Adhatoda vasica* Nees in the Malabar area of Western Ghats, India".

Sri Prasanth Ghanta

Received the Sri S V Giri Gold Medal for Distinction in Master of Philosophy in Sciences, SSSIHL Annual Convocation, November, 2011.

Dr. B E Pradeep

Selected for an eight-week summer training fellowship (Apr-May 2012) under the auspices of Indian Academy of Sciences to work in Dr. Krishnaveni Mishra's lab in the Department of Biochemistry, University of Hyderabad.

FACILITIES UPGRADED

The department was equipped with RT-PCR (Eppendorf), Multichannel Pipettes (Eppendorf), Microwell Plate Centrifuge (Eppendorf), Refrigerator 1000 Litre capacity (Thermo), Horizontal Electrophoresis setup with power pack, Multimode Microplate Reader (Spectramax M-5). Kubota high-speed cooling centrifuge, and -80°C freezer (Thermo).

THRUST AREAS OF RESEARCH

Animal Biotechnology

- Blue proteins - Hemocyanins of invertebrates, copper transporter proteins and copper bearing proteins and enzymes.
- Immunogenetics - KIR, TLR & HLA - I allele polymorphism among the inhabitants of Puttaparthi
- Autologous chondrocyte culture and implantation

Microbial Biotechnology

- Biodiversity, secondary metabolites and anti-oxidant capacity of endophytic fungi.
- Nutritional and Nutraceutical potential of edible mushrooms
- Microbial Fuel cells

Plant Biotechnology

- Biodiversity, ethno-botanical survey, tissue-culture, secondary metabolites, anti-microbial, anti-oxidant and phytochemical analyses of medical plants.

RESEARCH PROJECTS – COMPLETED

Granting Agency	Principal Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
DBT	Prof. S Krupanidhi Bioinformatics Infrastructural Facility	2008-2012	24 Lakhs

Scope: To teach biology through bioinformatics tools.

Deliverables: The discipline of Biology during 19th and 20th century was more of descriptive, conceptual and experimental. Through the advent of molecular biology and proteomics tools, the understanding of biology in 21st century is altogether viewed in a different perspective primarily due to the accumulation and compilation of huge data and metadata by several of the agencies viz., NCBI, EBI, DDBJ, BioGrid (India), etc. Hence, teaching biology through bioinformatics tools orient students to appreciate the subject as is required in the present genomic era.

Social Relevance: There were incidences that the sequences of DNA and protein were being read and communicated through telephones – the accuracy of the same was largely dubious. Now, the latest developments in both the hardware and software technology and with 4 G broadband internet facility, there is a remarkable progress in the deposition of biological data, curation of data, storing of data, compilation of data and ultimately retrieval of data for the analysis of endemic and exotic evaluation of diseases and individual genomics for tailored therapy. Furthermore, the GIS tools are reaching to every nook and corner to unfold the dependence of habitat on climate and further the dependence of fauna and flora on the habitat and their interrelations. GIS tools are being employed for the conservation of flora and fauna (Biodiversity) and to facilitate the awareness of flourishing of species whose sustenance is an important factor for the wellbeing of humans.

Granting Agency	Principal Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
UGC	Prof. S S Rajan Expression, purification, and pepsin inhibition activity of refolded rBm-33 (Pepsin inhibitor homologue) from <i>Brugia malayi</i>	10 Oct 2009 to 9 Oct 2011	5.4 Lakhs

Scope: Filariasis is a dreadful disease and till today there is no drug available for it. The project was undertaken in collaboration with the Department of Biotechnology, Anna University, Chennai-600025. A protein Bm33 was identified and the work is related get the protein in pure form and do crystallographic studies through which one could do the binding studies of different compounds and get finally a lead compound.

Deliverables: We have got the active form of Bm33 in a highly purified form and the rest of the work is in progress. A publication was brought out in a good impact factor journal.

Social Relevance: Once the drug has been obtained this can be put to trial which will help all people affected by filariasis.

RESEARCH PROJECTS – ONGOING

Granting Agency	Principal Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
UGC SAP DRS Level II	Prof. S Krupanidhi Special assistance program: 1. Plant cell, tissue culture and its applications 2. Immunogenetics	1 Apr 2010 to 31 Mar 2015	71.85 Lakhs
Scope: <ul style="list-style-type: none"> To evaluate the medicinal properties of chosen plants. To evaluate the genetic susceptibility of endemic population by genotyping of immune related genes viz., KIRs, TLRs and HLA 			
Deliverables: <ul style="list-style-type: none"> The products of plants are not only useful to nourish fauna but also have the inherent potential to upkeep fauna. In this respect, the active principle of a few chosen plants are being purified and tested for their efficacy towards antimicrobial activity. The genotyping of the endemic human population for the immune related genes would provide the clue to healthcare personnel to avoid and/or minimise infection and to take prophylactic measures. 			
Social Relevance: <ul style="list-style-type: none"> The evaluation of medicinal value of endemic plants and the percolation of the same in the community will enhance the use of plant products to upkeep the health. The predisposition of the immune related diseases in the population will direct the health personnel to minimise the extent of infection and ailments. 			



Granting Agency	Principal Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
DST-FIST	Prof. S Krupanidhi To strengthen the post graduate teaching facility in the department	1 Apr 2008 to 31 Mar 2013	33 Lakhs
Scope: <ul style="list-style-type: none"> To improve the infrastructure facility in the Department of Biosciences 			
Deliverables: <ul style="list-style-type: none"> The infrastructural facility created viz., FTIR spectrophotometer, FPLC and digital camera facilitated students to evaluate the crystal structure of allopurinol, functional groups in haemocyanin, purification of haemocyanin and the recording of histological samples of hepatocytes of snails. 			
Social Relevance: <ul style="list-style-type: none"> The students trained using the infrastructural facility created through DST FIST would facilitate them to percolate the knowledge among the community of students and scholars. 			

DOCTORAL RESEARCH SCHOLARS

Scholar Name	Area of Research	Research Supervisor(s)
Sri Vennel Raj	Biodiversity studies in <i>Aegle marmelos</i> (Linn.) Corr using morphological traits and molecular markers	Dr. R Basavaraju
Sri Sai Malleswar V N R	Studies on stress related adaptability in <i>Pila globosa</i>	Prof. S Krupanidhi
Sri K N Naresh	Spectroscopic properties, immunogenicity and phenol oxidase activity of oxygen biosensor: Haemocyanin of <i>Pila globosa</i>	Prof. S Krupanidhi
Sri A S Vishwanathan	Microbial Fuel cells: Indicators of performance	Prof. Govind Rao and Dr. S Siva Sankara Sai
Sri Robin Sharma	Screening optimization and characterization of antioxidant compounds of endophytic fungi from medicinal plants: <i>Aegle marmelos</i> & <i>Ocimum sanctum</i>	Dr. B S Vijayakumar
Sri Sai Murali R S	Application of biological and biotechnological methods to identify elite plant accessions of <i>Adhatoda vasica</i>	Dr. R Basavaraju and G Nageswara Rao
Sri Aswathnarayan	In vitro studies on anticancer activity of Vinca alkaloids using nanoparticles.	Prof. S. Krupanidhi
Miss Isha Sai	Investigations on the nutraceutical potential of some edible mushrooms	Dr. R Basavaraju
Sri P Sujit Kumar	Candidate gene analysis in type 2 diabetes	Prof. S Krupanidhi and Dr. Radha Venkatesan
Sri Sai Krishna	Immunological markers to evaluate the susceptibility of population of Puttaparthi region to <i>Pre-eclampsia</i>	Prof. S Krupanidhi
Sri Prasanth G	Bioprospecting of ethnobotanical plants with antimicrobial activity on the diarrhea causing bacteria in Puttaparthi	Prof. R Basavaraju

M.Phil. SCHOLARS

Scholar Name	Thesis Title	Supervisor
Sri Vijaya Sai A	KIR and HLA – C genotyping in the type 2 diabetes subjects from the population of the Puttaparthi region	Prof. S Krupanidhi

PROJECTS AND DISSERTATIONS COMPLETED

M.Sc. Biosciences Dissertations

Scholar Name	Project Title	Supervisor
Sri Abishek Rao	Review on Toll-like receptors and their association with human ailments	Prof. S Krupanidhi
Sri Pankaj Kumar Thakur	Genotyping of inhibitory killer immunoglobulin like receptor genes of endemic population of Puttaparthi	Prof. S Krupanidhi
Sri P Suresh	Genotyping of activatory KIR genes frequency in the endemic population of Puttaparthi	Prof. S Krupanidhi
Sri P Sai Pratap	Genotyping of HLA–C1 And HLA–C2 in the endemic population of Puttaparthi	Prof. S Krupanidhi
Sri Mukul Anand	In vitro tissue culture of hepatic tissues in response to heat stress.	Prof. S Krupanidhi
Sri Vishal Ranjan	Studies on stress induced compensatory mechanism in <i>Drosophila melanogaster</i> .	Prof. S Krupanidhi
Sri Sudesh Rudra Sangram Singh	Chondrocytes culture	Prof. S Krupanidhi
Sri Shishir Acharya	Preparation of alginate beads matrix for culturing of human chondrocytes	Prof. S Krupanidhi
Sri Kshitiz Dahal	Studies on 3-D scaffolds to facilitate chondrocyte culture	Prof. S Krupanidhi
Sri Arvind Kumar	Synthesis and characterization of pharmaceutical cocrystals of Allopurinol	Prof. S S Rajan
Sri Padmanav Behera	Phytochemical and antimicrobial activity of fruit pulp of <i>Aegle marmelos</i> (Linn.) Corr	Dr. R Basavaraju
Sri Pullela V D N B Karthik	Evaluation of Extended Spectrum Beta Lactamase producing enterobacteriaceae clinical isolates for CTX-M genes	Dr. B E Pradeep
Sri Srinivas Vangala	Evaluation of Extended Spectrum Beta Lactamase producing enterobacteriaceae clinical isolates for TEM and SHV genes	Dr. B E Pradeep

RESEARCH PUBLICATIONS

Journal Papers

- Amirthasanjeevi L, Ravikumar K and Rajan S S (2011) N- 4-(7-Methoxy-2-oxo-2H-chromen-8-yl)-2-methylbutan-2-yl propionamide. *Acta Crystallographica Section E*, E67, 2518.
- Basavaraju R (2011) Plant tissue culture – Agriculture and health of man. *Indian Journal of Science and Technology*, 4(3), 333-335.
- Chintala G and Vijaykumar B S (2011) Studies on Coprophilous fungi from temple elephant (*Elephas Maximus* L.,) dung of Vidyagiri complex, Prasanthi Nilayam and its environments. *International Journal of Life Sciences- Biozone*, 3(0974-8873), 442-447.
- Krishna N R, Krushna N S R, Narayanan R B, Rajan S S and Gunasekaran K (2011) Expression, purification, and pepsin inhibition activity of refolded rBm-33 (Pepsin inhibitor homologue) from *Brugia malayi*: A Human Lymphatic Filarial Parasite. *Protein Expression and Purification*, 79(2), 245-250.
- Krishna N R, Pattabhi V and Rajan S S (2011) Metal Induced Conformational Changes in Human Insulin: Crystal Structures of Sr^{2+} , Ni^{2+} and Cu^{2+} Complexes of Human Insulin. *Protein and Peptide Letters*, 18(5), 457-466.
- Krupanidhi S (2011) Lessons from Immunogenetics unfold inherent demographic health issues. *WebmedCentral Immunology*, 2(11), WMC002500.
- Laksmikanth T, Klas K and Krupanidhi S (2011) The Natural Killer cell – ‘Missing-Self’ Recognition strategy. *WebmedCentral Immunology*, 2(8), WMC002068.
- Lawa H N, Basavaraju R and Sai Murali R S (2011) A study of callogenesis and morphogenesis in *Phyllanthus niruri* L. *IUP Journal of Genetics and Evolution*, 4(2), 45-53.
- Malleswar D and Krupanidhi S (2011) Biomarker for environmental stress induced aestivation. *Indian Journal of Science and Technology*, 4(3), 336-338.
- Malleswar V N R and Krupanidhi S (2011) Biomarker for environmental stress induced aestivation. *Indian Journal of Science and Technology*, 4(3), 336-338.
- Rama Jyothi B N, Sivaprasad K and Krupanidhi S (2011) Docking and molecular modeling of the target – penicillin binding protein – 1A of *Haemophilus influenzae*. *Current Trends in Biotechnology and Pharmacy*, 5(3), 1318-1324.
- Sai Murali R S, Lawa H N and Basavaraju R (2011) In vitro Morphogenetic Studies on *Stevia rebaudiana* (Bertoni) Hemsl. *IUP Journal of Genetics and Evolution*, 4(1), 7-14.
- Vennel Raj J and Basavaraju R (2012) In vitro nodal explants propagation of *Aegle marmelos* (L.) Correa. *Indian Journal of Innovations and Developments*.
- Vennel R J and Basavaraju R (2012) Floristic Diversity of Puttaparthi Mandal - A taxonomic overview. *International Journal of Current Science*, 3, 89-96.

Conference Papers

- Sai Krishna S B, Krupanidhi S and Sanjeevi C B (26-28 Mar 2012) KIR and HLA genotyping in the Pre-eclamptic women. *National Seminar on Advanced Immunology and Immunomodulation*, Department of Microbiology, S K University, Anantapur, Andhra Pradesh.
- Malleswar D, John K and Krupanidhi S (7-9 Jul 2011) Bio-geographical evaluation of causative factors inducing aestivation in *Pila globosa* using IDRISI- GIS and analysis of consequent physiological response. *International Conference on Impact of Physical Sciences on Biology*, Queen Mary's College, Chennai.
- Sai Murali R S and Basavaraju R (7-9 Jul 2011) Ecomorphometric studies on *Adhatoda vasica* Nees in the Malabar area of Western Ghats, India. *International Conference on Impact of Physical Sciences on Biology*, Queen Mary's College, Chennai.
- Sai Murali R S and Basavaraju R (7-9 Jul 2011) A study on biodiversity of Medicinal Plants in the Eastern Ghats with special reference to Andhra Pradesh. *International Conference on Impact of Physical Sciences on Biology*, Queen Mary's College, Chennai.
- Ramakrishna S U and Vijayakumar B S (21 Dec 2011) Studies on Aerobiology of Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam Campus, Puttaparthi Mandal, Anantapur District, Andhra Pradesh. *National Conference on Impact of Biotechnology in Health Care & Industry* (IBHI-2011) at Dept. of Biotechnology, Vel-Tech High Tech Engineering College, Chennai.
- Vishwanathan A S, Ramakanth S V and Sivakumar M (29-30 Dec 2011) Design optimization to improve performance efficiency of microbial fuel cells. *National Conference on Interface between Chemical Sciences and Technologies*, National Institute of Technology, Warangal.
- Sharma R and Vijayakumar B S (6-8 Feb 2012) Hyphomycetes: occurrence, succession and their role in ecosystem functioning. *Bangalore India Bio – India, the emerging bioeconomy*, Lalith Ashok, Bangalore.
- Vaishnav G, Krupanidhi S and Sanjeevi C B (26-28 Mar 2012) KIR genotyping in the local population of Puttaparthi. *National Seminar on Advanced Immunology and Immunomodulation*, Department of Microbiology, S K University, Anantapur, Andhra Pradesh.
- Vijaya Sai A, Krupanidhi S and Sanjeevi C B (26-28 Mar 2012) Genotyping of KIR and HLA-C and their association to type 2 diabetes. *National Seminar on Advanced Immunology and Immunomodulation*, Department of Microbiology, S K University, Anantapur, Andhra Pradesh.

Books

- Solomon K A and Rajan S S (2011) *Studies on antifeedants from Meliaceae family*. LAP Lambert Academic Publishing (Saarbrücken, Germany). ISBN: 978-3-8443-1258-4.
- Ghanta P (2012) *Plants as source of Antimicrobial agents: Study of the antimicrobial activities of select medicinal plants of Puttaparthi*. LAP Lambert Academic Publishing (Saarbrücken, Germany).

Chapters in Books

- Basavaraju R (2011) Spices and condiments in and around Andhra Pradesh in: *Spices: The Elixir of Life* (pp. 165-178). Originals (New Delhi).

DEPARTMENT OF HOME SCIENCE

VISION

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



OVERVIEW

The Undergraduate Programme in Home Science started 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 specialization 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 M.Phil. and Ph.D. research programmes in Food Science and Nutrition were initiated in the academic year 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: Prof. (Mrs.) Rashmi Kapoor

Name	Designation	Qualification
Prof. (Mrs.) Rashmi Kapoor	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.
Mrs. M Srijaya*	Asst. Professor	M.Sc.
Mrs. A Sumana*	Asst. Professor	M.Sc.

* also pursuing Doctoral Research

SPECIAL ACHIEVEMENTS

Dr. (Mrs.) B Andallu

- Delivered a guest lecture on 'Reactive oxygen species: Pathogenesis and Protective role of Functional Foods with Special Reference to Spices' 17th Annual Student Conference for Research & Creative Arts, University of Houston Clear Lake, Houston Texas, USA, 21-22 Apr 2011.
- Received 'Talented Scientist Award' for the scientific and research achievements in the 3rd International conference on Medicinal Plants and Herbal Medicines, University of Colombo, Colombo, Sri Lanka, 19-21 Dec 2011.

Dr. (Miss) N Srividya & Ms. Pushkala Ramachandran

Received 'Best poster award' at International Conference – Foods 2012 for the paper "Antidiabetic and in vitro antioxidant activity of chapati enriched with bioactive polysaccharide chitosan", M O P Vaishnav College, Chennai, 17-18 Feb 2012.

Achievement in National level exams

Ms. Akriti Pradhan qualified for JRF (Junior Research Fellowship).

FACILITIES UPGRADED

The Department of Home Science renovated Food Technology Lab to carry out Food Processing, Food Product Development and Food Packaging operations. The department also strengthened its lab facility by acquiring following analytical and quality measurement equipments: Digital Fruit Pressure Tester, Refractometer, Rotary Evaporator, Cobb Tester, Autoclave, UV-visible Spectrophotometer, Blood Analyser, Refrigerated Shaking Incubator etc.

THRUST AREAS OF RESEARCH

(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
- Therapeutic Food Development
- Functional Food Development
- Food Preservation

(c) Experimental Nutrition

- Screening of phytochemicals and therapeutic profiles of conventional and unconventional foods
- 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 nutrition technologies for adoption by rural people
- Training of Child Development Project Officers engaged in nutrition dissemination

RESEARCH PROJECTS – ONGOING

Granting Agency	Principal Investigator & Title of the Project	Time Period	Total (Rs.) Allocation
UGC	Mrs. M Srijaya Impact of gamma irradiation on shelf life extension of selected fruits and vegetables grown in Anantapur District	12 Jan 2011 to 11 Jan 2013	2 Lakhs

Scope:

As horticultural crops are highly perishable in nature, there is an incidence of both pre and post harvest losses resulting in decline of per capita availability of fruits and vegetables. Radiation technology offers a sustainable, eco friendly, less energy intensive treatment for the control of microbes, pests and controlling ripening and senescence of fruits and vegetables. Combination treatments or hurdle approaches involving irradiation have been valuable in improving the quality and shelf life extension of fruits and vegetables. Hence, it is imperative that irradiation is fast emerging as a promising technology in food processing and preservation.

Deliverables:

Appreciable delay of ripening and consequent enhancement of shelf life in certain fruits and vegetables have been observed in the present investigation upon low dose gamma irradiation treatment. Irradiation in conjunction with other preservation techniques (low temperature, hot water and calcium chloride dips) achieved a shelf stable quality for fruits such as papayas and guavas. Low dose irradiation (0.25-0.75 KGy) also delayed the onset of the respiratory climacteric as evidenced by CO₂ evolution in the study. Initial experiments revealed a significant effect of radiation on the microbial quality of the selected samples. Radiation with and without pretreatments promoted the accumulation of various antioxidants and increased the antioxidant scavenging activities of various fruit extracts.

Social Relevance:

Anantapur district is the second most drought affected area in India. About 30-50% of the horticultural produce is being wasted due to the lack of proper processing and marketing facilities. The scope for commercial application of radiation technology for fruits and vegetables appears high and the utilization of this novel technology is important to farmers, exporters consumers and finally to the nation.

DOCTORAL RESEARCH SCHOLARS

Scholar Name	Area of Research	Research Supervisor
Ms. Pushkala Ramachandran	Food and nutraceutical applications of Aloe vera gel and chitosan - A comparative study of the biopolymers	Dr. (Miss) N Srividya
Ms. Rajeshwari U	Assessment of therapeutic potential of coriander (<i>Coriandrum sativum</i> L.) seeds in vitro and in vivo	Dr. (Mrs.) B Andallu
Ms. Iyer Shobha Ramamurthy	Therapeutic potential of aniseeds (<i>Pimpinella anisum</i> L.): An in vitro assessment	Dr. (Mrs.) B Andallu
Ms. Tapasya Anand	Studies on phytonutrients and therapeutic potentials of mushrooms	Prof. (Mrs.) Rashmi Kapoor

M.Phil. SCHOLARS

Scholar Name	Thesis Title	Supervisor
Ms. Mekha M S	Evaluation of ajwain (<i>Trachyspermum ammi</i> L.) seeds for in vitro therapeutic potential	Dr. (Mrs.) B Andallu
Ms. Akriti Pradhan	Studies on nutraceutical potentials of probiotic enriched flax seed based products	Prof. (Mrs.) Rashmi Kapoor

PROJECTS AND DISSERTATIONS COMPLETED

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

Scholar Name	Project Title	Supervisor
Kopparapu Suguna Gunavathi	Formulation of selected baked products utilizing defatted sesame (<i>Sesamum indicum</i>) seed meal.	Mrs. A Sumana
M N Poojitha	Functional quality and in vitro therapeutic potential of nutraceutical enriched papaya powder	Dr. (Miss) N Srividya
T Usha Rani	Influence of chitosan incorporation on quality and nutraceutical properties of wheat flour and chapati	Dr. (Miss) N Srividya
Ms. Battu Jyothsna	Phytochemical constituents and antioxidant potential of raw, roasted and commercial cocoa (<i>Theobroma cacao</i> L.)	Dr. (Mrs.) B Andallu
Krishnashree V	A comparative study on the phytochemicals and antioxidant potential of vanilla (<i>Vanilla fragrans</i>) pods and essence	Dr. (Mrs.) B Andallu
Jenny Melkay M George	A study on impact of radiation processing on nutritional quality of selected fruits and vegetables.	Mrs. M Srijaya
Karthika V Menon	Effect of pretreatments and gamma irradiation on the post harvest quality of guava (<i>Psidium guajava</i> L.)	Mrs. M Srijaya
Seethalakshmi Ravi Shankar	Phytochemical screening and postprandial glycemic effects of flax seed	Prof. (Mrs.) Rashmi Kapoor
Teena Gupta	Studies on antioxidant profile and postprandial glycemic response of alfalfa (<i>Medicago sativa</i>) seeds	Prof. (Mrs.) Rashmi Kapoor

RESEARCH PUBLICATIONS

Journal Papers

- Anand T and Kapoor R (2011) Chemical composition of certain developed mushroom supplemented ready to eat therapeutic foods. *Indian Journal of Nutrition and Dietetics*, 48(7), 290-298.
- Anand T and Kapoor R (2011) Chemical composition of herbs in comparison to selected mushrooms. *Journal of Dairying Foods and Home Science*, 30(2), 122-125.
- Andallu B, Mahalakshmi S and Rajeshwari C U (2011) Efficacy of curry (*Murraya koenigii*) leaves in scavenging free radicals in vitro and controlling oxidative stress in vivo. *Biomedicine and Preventive Nutrition*, 3, 263-267.
- Pushkala R, Parvathy K R and Srividya N (2012) Chitosan powder coating, a novel simple technique for enhancement of shelf life quality of carrot shreds stored in macro perforated LDPE packs. *Innovative Food Science and Emerging Technologies*.
- Pushkala R and Srividya N (2011) Influence of Aloe gel enrichment on the physicochemical, textural and sensory characteristics of dahi. *Journal of Food Science and Engineering*, 1, 141-153.
- Rajeshwari C U and Andallu B (2011) Extraction and detection of flavonoids in the methanolic extract of seeds of *Coriandrum sativum* L. by RP-HPLC. *Novus International Journal of Analytical Innovations*, 1(2), 34-39.
- Rajeshwari C U and Andallu B (2011) Isolation and simultaneous detection of flavonoids in the methanolic and ethanolic extracts of *Coriandrum sativum* L. seeds by RP-HPLC. *Paksitan Journal of Food Science*, 1-4, 13-21.
- Rajeshwari C U and Andallu B (2011) Medicinal benefits of coriander (*Coriandrum sativum* L.). *Spatula DD*, 1(1), 51-58.
- Rajeshwari C U, Shobha R I and Andallu B (2011) Comparison of aniseeds and coriander seeds for antidiabetic, hypolipidemic and antioxidant activities. *Spatula DD*, 1(1), 9-16.
- Srijaya M, Kusuma D L and Pushkala R (2011) Shelf life extension of mosambi (*Citrus sinensis*) by gamma irradiation. *Research Journal of Pharmaceutical, Chemical and Biological Sciences*, 2(4), 994-1004.
- Tapasya A and Rashmi K (2011) Chemical composition of certain developed mushroom supplemented ready to eat therapeutic foods. *Indian Journal of Nutrition and Dietetics*, 48, 290-298.
- Tapasya A and Rashmi K (2011) Chemical composition of herbs in comparison of selected mushrooms. *Journal of Dairying Foods and Home Science*, 30(2), 122-125.



- Tapasya A and Rashmi K (2012) Determination of in vitro functional efficacy of fibre isolate from mushrooms. *Journal of Dairying Foods and Home Science*, (In Press).
- Tapasya A and Rashmi K (2012) Development of mushroom enriched weaning mix. *Indian Journal of Nutrition and Dietetics*, (In Press).
- Tapasya A and Rashmi K (2012) Glucose lowering effects of pre-cooked instant preparations containing mushrooms in non-insulin dependent diabetic and healthy subjects. *Journal of Dairying Foods and Home Science*, 31(2), 136-141.
- Tapasya A and Rashmi K (2012) Nutritional composition and phytochemical profile of wild mushrooms of Western ghats. *Indian Journal of Natural Products and Resources*, (In Press).
- Rajeshwari C U and Andallu B (2012) Reverse phase HPLC for the detection of flavonoids in the ethanolic extract of *Coriandrum sativum* L. seeds. *International Journal of Basic and Applied Sciences*, 1(1), 21-26.
- Rajeshwari C U, Preeti M and Andallu B (2012) Efficacy of mint (*Mentha spicata* L.) leaves in combating oxidative stress in type 2 diabetes. *International Journal of Life Sciences*, 1(1), 1-7.
- Rajeshwari C U, Shobha R I and Andallu B (2012) Antihemolytic activity of various fractions of methanolic extract of coriander (*Coriandrum sativum* L.) leaves and seeds: A comparative study. *Pakistan Journal of Food Science*, 22(1), 1-6.
- Rajeshwari C U, Siri S and Andallu B (2012) Antioxidant and anti-arthritis potential of coriander (*Coriandrum sativum* L.) leaves. *e-SPEN Journal*, (In Press).
- Mekha M S, Rajeshwari C U, Shobha R I and Andallu B (2012) Phytochemical constituents in methanolic extract and various fractions of methanolic extract of ajwain (*Trachyspermum ammi* L.) seeds. *Novus International Journal of Analytical Innovations*, 1(2), 20-33.
- Anand T and Kapoor R (2012) Mushroom enriched low viscosity weaning mix. *Journal of Dairying Foods and Home Science*, 31(1), 74-76.

Conference Papers

- Indira U B and Kapoor R (11-12 Feb 2011) Development of instant soya based product. *National conference on Processed Foods- A trend beyond Boundaries*, M O P Vaishnav College for Women, Chennai.
- Shobha R, Rajeshwari C U and Andallu (21-22 Apr 2011) Oxidative stress in diabetes and osteoarthritis: protective role of aniseeds (*Pimpinella anisum* L.). *17th Annual Student Conference for Research & Creative Arts*, University of Houston Clear Lake, Houston, Texas.
- Rajeshwari C U, Raghunadharao D and Andallu B (21-22 Apr 2011) Oxidative stress in breast and liver cancers: antioxidative and antiproliferative effects of coriander extracts. *17th Annual Student Conference for Research & Creative Arts*, University of Houston Clear Lake, Houston Texas.
- Abhirami L, Indira U B and Kapoor (2-3 Sep 2011) R Development of Iron Enriched Instant mix for Adolescent Nutrition. *International Seminar on Nutrition and Health Care of Adolescent Girls*, Postgraduate Department of Home Science, Jamshedpur Women's College, Jamshedpur.

- Kapoor R (2-3 Sep 2011) *Spirulina platensis* – A Treasure of Haematopoietic Micronutrients. *International Seminar on Nutrition and Health Care of Adolescent Girls*, Postgraduate Department of Home Science, Jamshedpur Women's College, Jamshedpur.
- Kumari A and Kapoor R (2-3 Sep 2011) A study on Assessment of Growth, Calorie, Protein Consumption and Prevalence of Anemia in Adolescent Grils. *International Seminar on Nutrition and Health Care of Adolescent Girls*, Postgraduate Department of Home Science, Jamshedpur Women's College, Jamshedpur.
- Tapasya A and Rashmi K (23-25 Nov 2011) Anti-diabetic, anti-oxidative and anti-atherosclerotic potentials of mushroom products as predicted from in vitro models. *International Conference on Recent Trends in Processing and Safety of Specialty and Operational Foods*, Defence Food Research Laboratory, Mysore, Karnataka.
- Rajeshwari C U, Shobha R I and Andallu B (23-25 Nov 2011) Antioxidant and antidiabetic potential of methanolic extract and various fractions of coriander(*Coriandrum sativum* L.) seeds. *International Symposium on Recent Trends in Processing & Safety of Speciality and Operational Foods*, Defence Food Research Laboratory, Mysore, Karnataka.
- Rajeshwari C U, Shobha R I and Andallu B (23-25 Nov 2011) Scavenging activities and anti-inflammatory effects of methanolic extract and various fractions of aniseeds (*Pimpinella anisum* L.). *International Symposium on Recent Trends in Processing & Safety of Speciality and Operational Foods*, Defence Food Research Laboratory, Mysore, Karnataka.
- Anand T and Kapoor R (23-25 Nov 2011) Anti-diabetic, anti-oxidative and anti-atherosclerotic potentials of mushroom products as predicted from in vitro models. *International Symposium on Recent Trends in Processing and Safety of Specialty and Operational Foods*, Defence Food Research Laboratory, Mysore, Karnataka.
- Indira U B and Kapoor R (23-25 Nov 2011) Attenuation of post prandial glycemic response of refined flour with alfalfa, flaxseed and fenugreek seeds sprouts. *International Symposium on Recent Trends in Processing and Safety of Specialty and Operational Foods*, Defence Food Research Laboratory, Mysore, Karnataka.
- Pushkala R and Srividya N (23-25 Nov 2011) Improved inhibitory potential of dahi enriched with Aloe gel against key enzymes linked to type -2 diabetes and its post-prandial glycemic response. *International Symposium on Recent trends in processing and safety of specialty and operational foods*, Defence Food Research Laboratory, Mysore, Karnataka.
- Pushkala R, Parvathy K R and Srividya N (Dec 2011) Chitosan powder coating: A bio-preservation technique for enhancing shelf life quality of carrot shreds. *National Conference on Sustainable Food Security and Safety*, Gitam University, Vishakapatnam, Andhra Pradesh.
- Indira U B and Kapoor R (17-18 Feb 2012) Antidiabetic and anti-hemolytic effects of alfalfa and fenugreek polyphenols using in vitro methods. *International Conference – Food Web: A Global Connect*, M O P Vaishnav College for Women, Chennai.
- Anand T and Kapoor R (17-18 Feb 2012) Use of mushroom Powder for post-prandial glycemic evaluation in diabetic subjects. *International Conference – Food Web: A Global Connect*, M O P Vaishnav College for Women, Chennai.
- Pushkala R and Srividya N (17-18 Feb 2012) Formulation and quality characteristics of Aloe-papaya blend spiced RTS beverage. *International Conference Foods 2012, Processed Foods – A trend beyond boundaries*, M O P Vaishnav College for Women, Chennai.
- Rajeshwari C U and Andallu B (17-18 Feb 2012) Anti-inflammatory and anti-diabetic effects of methanolic extract and various fractions of coriander (*Coriandrum sativum* L.) seeds. *International Conference – Food Web: A Global Connect*, School of Food science, M O P Vaishnav College for Women, Chennai.

- Pushkala R, Usha T and Srividya N (17-18 Feb 2012) Antidiabetic and in vitro antioxidant activity of chapati enriched with bioactive polysaccharide chitosan. *International Conference Foods 2012, Processed Foods – A trend beyond boundaries*, M O P Vaishnav College for Women, Chennai.
- Tapasya A and Rashmi K (17-18 Feb 2012) Use of Mushroom Powder for Post-Prandial Glycemic Evaluation in diabetic Subjects. *International Conference – Food Web: A Global Connect*, M O P Vaishnav College for Women, Chennai.
- Rajeshwari C U, Shobha R I and Andallu B (17-18 Feb 2012) In vitro antidiabetic and antihemolytic activities of fractions of methanolic extract of aniseed (*Pimpinella anisum* L.). *International Conference – Food Web: A Global Connect*, School of Food science, M O P Vaishnav College for Women, Chennai.
- Seethalakshmi R, Pradhan A and Kapoor R (17-18 Feb 2012) Attenuation of Glycemic Response of Wheat Flour Chapatti with Flaxseed Incorporation. *International Conference – Food Web: A Global Connect*, M O P Vaishnav College for Women, Chennai.
- Sumana A and Aruna M (17-18 Feb 2012) Agathi Leaf Bread-An indigenous source of food supplement. *International Conference on Food Web- A global connect*, School of Food Science, M O P Vaishnav College for women, Chennai.
- Gayatri K and Srividya N (21-22 Feb, 2012) South Indian festive cuisine and foods-Knowledge levels of adolescent girls and impact of awareness sessions. *National seminar on 'A holistic approach towards health and well being'*, Sri Padmavati Mahila Vishvavidyalayam, Tirupati, Andhra Pradesh.
- Sumana A and Aruna M (22-23 Feb 2012) Formulation, optimization and quality evaluation of Agathi (*Sesbania grandiflora*) leaf enriched biscuits. *BAMHT-2012, A holistic approach towards health and well-being*, Sri Padmavati Mahila University, Tirupati.
- Pushkala R, Usha T and Srividya N (24 Feb 2012) Effect of incorporation of biomacromolecule chitosan on the in vitro antidiabetic and antioxidant activity of wheat flour. *National Conference on Biotic and Abiotic Molecules – their health effects and therapeutic applications (BAMHT-2012)*, DST Purse Centre, S V University, Tirupati.
- Anand D, Pradhan A and Kapoor R (24-25 Feb 2012) Attenuation of glycemic response of refined wheat flour to soyabeans and probiotics. *National Conference on Biotic and Abiotic Molecules – their health effects and therapeutic applications (BAMHT-2012)*, DST Purse Centre, S V University, Tirupati.
- Rajeshwari C U and Andallu B (24-25 Feb 2012) Phenolic compounds and antiradical activity of coriander (*Coriandrum sativum* L.) leaves and seeds: A comparative study. *National Conference on Biotic and Abiotic Molecules – their health effects and therapeutic applications (BAMHT-2012)*, DST Purse Centre, S V University, Tirupati.
- Rajeshwari C U and Andallu B (24-25 Feb 2012) Radical scavenging activities and anti-hemolytic effects of methanolic extract and various fractions of coriander (*Coriandrum sativum* L.) seeds. *National Conference on Biotic and Abiotic Molecules – their health effects and therapeutic applications (BAMHT-2012)*, DST Purse Centre, S V University, Tirupati.
- Rajeshwari C U, Mekha M S and Andallu B (24-25 Feb 2012) Analysis of various fractions of ajwain (*Trachyspermum ammi*) seeds for bioactive compounds. *National Conference on Biotic and Abiotic Molecules – their health effects and therapeutic applications (BAMHT-2012)*, DST Purse Centre, S V University, Tirupati.
- Rajeshwari C U, Shobha R I and Andallu B (24-25 Feb 2012) Free radical scavenging activity (in vitro) and antioxidant potential (in vivo) of coriander (*Coriandrum sativum*) seeds. *National Conference on Biotic and Abiotic Molecules – their health effects and therapeutic applications (BAMHT-2012)*, DST Purse Centre, S V University, Tirupati.

- Shobha R, Sumana A and Aruna M (24-25 Feb 2012) Nutritional and Phytochemical evaluation of agathi leaf enriched products. *National Conference on Biotic and Abiotic Molecules – their health effects and therapeutic applications (BAMHT-2012)*, DST Purse Centre, S V University, Tirupati.
- Anand T and Kapoor R (24-25 Feb 2012) Nutraceutical potential of *Calocybe indica* for diabetes and cardiovascular diseases. *National Conference on Biotic and Abiotic Molecules – their health effects and therapeutic applications (BAMHT-2012)*, DST Purse Centre, S V University, Tirupati.
- Indira U B and Kapoor R (24-25 Feb 2012) Impact of germination on the postprandial glycemic response of alfalfa and fenugreek seeds. *National Conference on Biotic and Abiotic Molecules – their health effects and therapeutic applications (BAMHT-2012)*, DST Purse Centre, S V University, Tirupati.
- Parvathy K R, Pushkala R and Srividya N (4-6 May 2012) Chitosan coating: A bio-preservation technique for enhancing shelf life quality of minimally processed carrot. *World congress on Biotechnology*, Leonia International Centre, Hyderabad.
- Pushkala R, Usha T and Srividya N (4-6 May 2012) Evaluation of chitosan as an anti staling and bio preservative agent in wheat flour chapati. *World congress on Biotechnology*, Leonia International Centre, Hyderabad.

Books

- Andallu B and Varadacharyulu N C (2011) *Mulberry (Morus indica L.) and its antidiabetic potential*. Lambert Academic Publishing GmbH & Co (Germany). ISBN: 978-3-8443-3399-2.
- Rajeshwari C U and Andallu B (2011) *Protective role of aniseeds (Pimpinella anisum) in diabetes mellitus type 2*. LAP Lambert Academic Publishing Ltd. (Germany).

Chapters in Books

- Sai Lakshmi M, Abirami L S S, Pushkala R and Srividya N (2011) Enhancement of storage life and quality maintenance of papaya fruits using Aloe vera based antimicrobial coating in: *Recent advances in biotechnology and food technology* (pp. S389-S399). Sadguru Publications (Udaipur, Rajasthan). ISBN: 978-81-901735-7-5.
- Srija M K D L P R (2011) Effect of gamma irradiation and refrigeration on the keeping quality of mosambi (*Citrus Sinesis*) fruit in: *Recent advances in Bio Technology and Food Technology* (pp. 400-412). Sadguru Publications (Udaipur, Rajasthan). ISBN: 971-81-901735-7-5.
- Andallu B and Rajeshwari C U (2012) Ajwain (*Tracyspermum ammi*) seeds in health promotion and disease prevention in: *Traditional and Folk Herbal Medicine: Recent Researches* (pp. 301-314). Daya Publishing House (New Delhi).
- Andallu B and Srikanthi B L (2012) Effect of mulberry (*Morus indica L.*) leaves on blood glucose, glycosylated hemoglobin and serum gluconeogenic enzymes in NIDDM patients in: *Phytochemistry, pharmacology and therapeutics* (pp. 237-244). Daya Publishing House (New Delhi).
- Rajeshwari C U and Andallu B (2012) Phytochemical analysis of coriander (*Coriandrum sativum L.*) seeds. (In Press) in: *Medicinal Plants: Phytochemistry, Pharmacology and Therapeutics*. Daya Publishing House.
- Shobha R I and Andallu B (2012) Aniseeds (*Pimpinella anisum L.*): An Overview. (In Press) in: *Medicinal Plants: Phytochemistry, Pharmacology and Therapeutics*. Daya Publishing House.

DEPARTMENT OF MANAGEMENT STUDIES

VISION

To produce professionally competent managers who will influence Organizational systems, practices and human resources through their personal example, reflecting the teachings of the Revered Founder Chancellor, Bhagawan Sri Sathya Sai Baba.



OVERVIEW

The Department of Management Studies was inaugurated on 21 August 1986. With 'Values Based Management' and 'Indian Ethos and Values' as the foundation of the management programmes, the focus is on equipping students to recognize and meet the challenges of the ever-changing business environment. The course objectives and the syllabi stress the Revered Founder Chancellor's thought that the core of management is 'Man Management'. Accordingly, classroom instructions are combined with experiential exercises, management games, self-awareness & personality development routines and analysis of case studies, to reinforce this philosophy. As per the directions of the Revered Founder Chancellor, students are given an exposure to real-life management issues. The MBA students are taken on a tour to leading industries and business organisations, between the first and second year of the MBA programme. During this tour, the students visit the shop-floor to observe manufacturing process and associated practices. The students also interact with the Senior Management team of these organisations. This is a unique feature of the management programme at this University.

The residential system of education that includes the concept of Self-reliance the team building inculcated during activities like the Annual Sports & Cultural Meet and the concept of Project Management as exhibited during Grama Seva – reinforce the concepts of Total Quality Management and Leadership learnt in the classroom.

Modern, well-equipped classrooms coupled with IT tools, enhance the learning experience students. Academic rigour is reinforced through first-hand exposure to the management styles and practices of leading Manufacturing, Finance, IT and Service organizations, that are shared by the faculty of the department, most of whom possess vast industry work experience, as well as practicing managers from India and abroad, who visit the University on a regular basis.

COURSES OFFERED

Undergraduate	Bachelors of Business Management (BBM)	
Postgraduate	MBA	MBA (Finance)
Research	M.Phil.	Ph.D.

TEACHING FACULTY

Head of Department: Prof. Shiv R Pandit

Name	Designation	Qualification
Prof. U S Rao	Professor (Hon.)	M.Tech., Ph.D.
Prof. R Kumar Bhaskar	Professor (Hon.)	M.Com., Ph.D.
Prof. A Sudhir Bhaskar	Professor (Hon.)	M.Tech., Fellow – IIM-B
Prof. Shiv R Pandit	Professor (Hon.)	M.B.A., Ph.D.
Prof. A Anantha Raman	Professor (Hon.)	B.E. (Mech.), M.B.A., Ph.D.
Sri Viney Thakar	Associate Professor (Hon.)	B.E., M.B.A.
Sri Arvind Hejmadi	Placement Officer (Hon.)	B.E., M.B.A.
Dr. B Sai Giridhar	Associate Professor	M.Com., Ph.D.
Sri H J Bhagia	Asst. Professor (Hon.)	B.E., D.I.M.

Sri R Renju	Information Scientist	B.E., M.B.A.
Dr. Deepak Anand	Asst. Professor	M.B.A., Ph.D.
Dr. N Niranjana	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
Sri Sai Vinod	Asst. Professor	B.E. (COMP), M.B.A., M.Phil.
Miss Purva Narang	Asst. Professor	M.Com., PGDBA
Miss Sharanya Balasubramanian	Asst. Professor	B.Com., M.B.A.
Sri B Chandrasekhar*	Asst. Professor	B.E. (ECE), M.B.A., M.Phil.
Dr. Ramaier Sriram	Senior Manager, UMS (Hon.)	B.Sc., M.Eng., Ph.D.

* also pursuing Doctoral Research

VISITING FACULTY

Name	Designation / Institution	Course / Topic Covered	Duration
Sri Roop Arora	Sr. Advocate (Retd.), Maharashtra High Court, Mumbai	Business Law and Awareness Course	Academic year 2011/12
Prof. Peter Pruzan	Professor Emeritus, Dr. Polit. & Ph.D., Department of Management, Politics & Philosophy, Copenhagen Business School, Denmark	Research Methodology for M.Phil. and Pre-Ph.D. scholars (across Departments)	Winter Semester 2011/12
		CSR and Sustainable Supply Chain Management	21-23 Feb 2012
Sri Mandip Sandhu	Senior Management Consultant, IBM Global Business Services	Research Methods for Managers and Business Analysis for IT Projects	Winter Semester 2011/12
Sri Rohit Srinivasan	Vice President, Tata Capital, Mumbai	Financial Projections for new ventures – Guidance for Financial Projects	18 Jun 2011
Sri Siddharth Gopinath	Vice- President, Marketing and R&D, New World Pasta, Pennsylvania, USA	Marketing Management	27-29 Jul 2011
Sri Venki Vykunta	V.P., Marketing and R&D, New World Pasta, Pennsylvania, USA	Managing challenges	30 Jul 2011
Dr. David Cornsweet	Director/CEO, William Gumpert Foundation, Enchintas, California, USA	Self Development and Cross Cultural Management	24 Aug 2011 to 15 Sep 2011
Sri P S Rao	President, Rane Brake Lining Ltd., Chennai	Operations Managements Colloquium lecture	27-29 Aug 2011

Sri Nosh Vadoli	Freelance consultant, Geographic Information System (GIS)	Application of GIS in solving urban problems related to Environment,	9-10 Sep 2011
Sri Samir Parekh	Owner, Proprietor and Chief Consultant, Making Monday Morning More, Mumbai	Case Study, Sales Management, Promotion Strategy, Marketing Management	14 Sep 2011 to 17 Sep 2011
Sri Sridhar Swamy	Chartered Accountant, Mumbai	Legal matters connected with MoA	19-21 Sep 2011
Sri K Sukumar	TVS Motor Company, Hosur, Tamil Nadu	Career Management, Calculation of Excise duty and Capital budgets	22 Sep 2011
Sri H Srinivasulu	CEO, Techno E Group, Hyderabad	Technological solutions for Rural Development	1 Dec 2011
Sri Ashoke Joshi	Chairman, Srinivasan Services Trust, Chennai	Role of CRS in Rural Development.	8 Dec 2011
Sri R R Nair	Independent Management Consultant	Career Management	9-10 Dec 2011
Prof. Bhanoji Rao	Retired Economics Faculty from National University of Singapore	National Development Accounting	13-15 Dec 2011
Dr. Ram P Aneja	Director, National Dairy Development Board, Anand, Gujarat	Sectoral analysis of agriculture & power sectors in India of NPRD	27 Dec 2011
Sri Manoj Ganjawalla	Vice-President, Godrej & Boyce Mfg. Co. Ltd., Mumbai	Colloquium lecture on Role of Supply Chain Management in a major Indian Corporation	28 Jan 2012
Sri Ravindran K Menon	Chief Manager and Pune Branch Head, Indian Bank	Colloquium lecture on the Banking Industry	18 Feb 2012
Dr. E V Joshy	Chief of Neurology, SSSIHMS, Whitefield, Bangalore	Managing stress and transformation – a Neurologists perspective managing change	21 Jan 2012
Sri Jagdish Krishnan	Chief Operating Officer, Co-Retail, Heritage Foods, Hyderabad	Colloquium lecture on Challenges in Retailing	18 Feb 2012
Sri P S Ponnappa	Vice-President, M/s. TVS Motor Company, Hosur	Industrial Relations and Legal Framework	18 Feb 2012
Sri Krishnaswamy	Vice-President, Petro Chemicals, Mumbai	Case Study on Strategy Development	29 Feb 2012
Sri M S Samba Murthy	Business Consultant, Chennai	Business Strategy and Experimental Learning	2 Mar 2012
Sri Phani Shankar	Head, Financial Market, Ing Vysya Bank, Mumbai	Financial Markets Strategies	3 Mar 2012

WORKSHOPS & CONFERENCES CONDUCTED

Title: The Tata Business Leadership Awards Ceremony

Dates: 18 Jul 2011

Venue: Multimedia Centre, Prasanthi Nilayam Campus, SSSIHL

PROGRAMME

INVITED GUESTS

Name & Designation	Role
Sri Kishore Dalal, Senior Manager, Tata Administrative Services, Group HR	Coordinator
Sri Sabarinadhan K S, Branding Manager, Tata Administrative Services	Coordinator
Sri Aditya Ahuja, Head, Tata Administrative Services, Group HR	Panelist
Sri P K Mohankumar, Chief Operating Officer, Gateway – Indian Hotels Ltd.	Panelist
Sri S Ravikant, Chief Operating Officer, Eyewear Business & Sr. Vice President Corporate Communications, Titan	Panelist
Sri Radhakrishnan Nair, Head, Talent Acquisition Group HR	Panelist

STUDENT TEAM PRESENTATIONS (MBA / MBA Finance Students)

Name & Designation	Title of the Talk
Students	Invocation and Veda Chanting
Prof. J Sashidhara Prasad, Vice-Chancellor, SSSIHL	Lighting the lamp
Prof. Shiv R Pandit, Head, Department of Management Studies	Welcome & Introduction
Sai Subba Rao J, Sagar Kalwani K, Pradeep Kumar A & G Nagarjun	Team 1 - Tata Aura
Sohan Dutta, Nagadeep K, Ashish Bhat & Pratim Banerjee	Team 2 - Tata Froodz
Bharani Prasad, C V Kannan, Gopi Krishna J & Narendra Kumar C R	Team 3 - Tata Organics
Ashutosh Pandit, Adwaith Kagalkar, Rishabh Sachdeva & Gopal Garg	Team 4 - Tata Sanskriti Parks
Sreeraj Menon, Vijay Sai H J, Kalyanasundaram Iyer & Rohit Nair	Team 5 - Tata Chilz
Venkatakrishnan K S, Tarrung Kapur, Rohit Chhabra & Vivek S	Team 6 - Tata Green Vision
Ashish Bhat	Experiences with TBLA Preparations
Pratim Banerjee	Thanking the Tata Team
Prof. A Sudhir Bhaskar, Dean, Faculty of Management & Commerce	Impressions
Tata Team	Prizes and Awards

DEPARTMENTAL COLLOQUIUM

The Department of Management Studies holds management colloquiums at the Institute campus in Prasanthi Nilayam every Saturday afternoon for its II year MBA students and faculty members. The objective of the colloquium is to expose students to contemporary thought and national and global issues of significant concern in the management and social sphere.

The Colloquium provides a platform for students to interact with practising managers and organizational leaders, thereby giving them exposure to real work challenges and an opportunity to practice the application of their academic skills.

Date	Presenter	Designation	Topic
27-29 Jul 2011	Mr. Venki Vykunta	V.P., Marketing and R&D, New World Pasta, Pennsylvania, USA	Branding
14-17 Sep 2011	Mr. Samir Parekh	Owner, Proprietor and Chief Consultant, M-4, Mumbai	Case Study, Sales Management, Promotion Strategy, Marketing Management
9 Oct & 10 Dec 2011	Mr. R R Nair	Independent Consultant	Career Management
21 Jan 2012	Dr. Joshi EV	Sr. Consultant & Chief of Neurology, SSSIHMS, Whitefield	Managing stress and transformation – A Neurologists perspective
28 Jan 2012	Mr. Manoj Ganjawalla	Vice President & Head – Commercial, Godrej & Boyce, Mumbai	Role of Supply chain Management in a major Indian Corporation
8 Feb 2012	Mr. Ravindra Menon	Chief Manager and Pune Branch Head, Indian Bank	Banking Industry Experience
18 Feb 2012	Mr. S Jagadish	Chief Operating Officer (Retail), Heritage Foods, Hyderabad	Challenges in Retailing
3 Mar 2012	Mr. Phani Shankar	Head, Financial Markets ING Vysya Bank	Financial Markets Strategies

WORKSHOPS ATTENDED

Sri R Renju

- Attended a faculty development programme on Advanced Corporate Finance at Indian Institute of Management, Kozhikkode, 25-29 Jul 2011.
- Attended an advanced faculty development programme on Entrepreneurship development at University of Pune, 26 Mar to 4 Apr 2012.



SPECIAL ACHIEVEMENTS

Prof. A Anantharaman

Presented the teaching case on "Sathya Sai Water Project - Meeting the Millenium Development Goals" at the National University of Singapore at the Temasek Foundation - Water Leadership Programme, 12-21 Oct 2011. The participants were drawn from among senior civil servants and Ministers from twelve countries in Asia.

Prof. U S Rao and Dr. S Subramanian

Best paper award in the Finance Category

A Modified Option Pricing Model, Global Business and Finance Conference, Institute of Management Technology, Nagpur, 10-11 Feb 2012. Project Student: Iyer Kalyanasundaram.

Mr Bhabani Shankar Padhy

Received a Special prize for the Best Paper presentation at the 5th Indian Institute of Management, Ahmedabad Doctoral Colloquium organized by Indian Institute of Management Ahmedabad, 7-8 Jan 2012 at the Indian Institute of Management, Ahmedabad campus for his paper "Conceptual model for Social Entrepreneurial Development."

Dr. Shashank Shah

- Invited as a Discussant and Resource Person for a Management Development Programme in the area of Corporate Social Responsibility conducted as an Executive Certificate Programme on Corporate Social Responsibility organised by S J M School of Management, Indian Institute of Technology, Mumbai, 9-10 Sep 2011, where he made a presentation on the theme "Corporate Social Responsibility in Indian Corporate Organisations".
- Participated as a discussant for the 9th Ph.D. Conference organised by European Academy for Business in Society (EABIS), held at CEDEP (Centre for Executive Education) at INSEAD, Paris, France, 6 Oct 2011.
- Invited as visiting scholar to the Centre for Corporate Social Responsibility, Copenhagen Business School, Denmark, 31 Oct to 8 Nov 2011, where he participated in the International Conference on the theme 'Social Media for Social Purposes' and presented a Seminar on the theme 'Corporate Social Responsibility in India' on 7 Nov 2011.
- Selected as a Member of the Review Board for the Journal of Values-Based Leadership, International Journal of the College of Business Administration, Valparaiso University, USA, from Feb 2012.

THRUST AREAS OF RESEARCH

- Values-based Management and Leadership
- Spirituality at the Workplace
- Corporate Governance and Social Responsibility
- Corporate Stakeholders Management and Welfare
- Rural Management
- Role of NGOs and Social Service Organizations
- Organization Culture Paradigm
- Cross Cultural Management
- Role of Values and Ethics in Business
- Social Entrepreneurship
- Logistics and Supply Chain Management
- Services Quality
- Emerging Market Finance
- Performance Measurement Systems
- Creativity and Innovation
- RBI Intervention in the Exchange Market
- Marketing Strategy

POST-DOCTORAL RESEARCH FELLOW

Scholar Name	Qualification	Area of Research
Dr. Shashank Shah	B.Com., MBA, M.Phil., Ph.D.	Leadership Perceptions on Business Management and Stakeholder Welfare: A Qualitative Study of Corporate India

DOCTORAL RESEARCH SCHOLARS

Scholar Name	Area of Research	Research Supervisor(s)
Sri Amey Deshpande	Strategic Planning and Performance Management Systems in SMEs – Framework Development and Case Study Analysis	Prof. A Sudhir Bhaskar
Sri G S S Rangarajan	Spirit at work in India: A study of select organizations	Prof. R Kumar Bhaskar
Sri S Sai Manohar	A Study of Innovation Culture in leading innovative organisations	Prof. Shiv R Pandit
Sri B Chandrasekhar	Micro-Savings as a potential component of Indian Microfinance – A mixed method study	Prof. A Anantharaman
Sri Bhabani Shankar Padhy	Social Entrepreneurship - with social orientation: Case-studies of selected organisations in india	Prof. R Kumar Bhaskar
Sri V N Prakash Sharma	Corporate Governance, Financial Performance and Value of a Firm	Prof. M. S. Narasimhan, Finance & Control, Indian Institute of Management, Bangalore and Dr. B. Sai Giridhar

M.Phil. SCHOLARS

Scholar Name	Area of Research	Research Supervisor(s)
Sri K Sai Chittaranjan	A Study of Resilient Companies with Sustained Growth and Their Strategies	Prof. U S Rao and Dr. B Sai Giridhar
Aman Jhaveri	Evolution of Institutions and Markets: A Study of India, China and Japan	Prof. A Anantharaman and Sri Arvind Hejmadi

PROJECTS & DISSERTATIONS COMPLETED

MBA Projects

Scholar Name	Project Title	Supervisor(s)
Anirudh C	Relationship between Human Resource Development Climate and Select Outcome Variables: A Study of Select IT Units	Prof. R Kumar Bhaskar
Bharani Prasad M S	Organizational Fit of Doctors in Healthcare Organizations: A Case Study of Sri Sathya Sai Institute of Higher Medical Sciences at Prasanthigram, Andhra Pradesh and Bangalore, Karnataka	Prof. R Kumar Bhaskar
Deepachakravarthy S	Human Resource Issues and Challenges in Small Scale Industries in Coimbatore and Tirupur	Prof. R Kumar Bhaskar
Abhishek Kumar	A Study of Mergers and Acquisitions As A Tool for Value Creation	Dr. B Sai Giridhar
Bhat Ashish Gireesh	Efficiency of Indian Stock Market – A Study	Dr. B Sai Giridhar
Sagar Krishna K	Rural BPO: Prospects and Challenges in India	Dr. B Sai Giridhar
Sai Aditya S	Evaluation of Indian banks: imperatives for going global	Sri V N Prakash Sharma
Nagadeep K	Prediction of IN-VIX and Option Price Using Neural Networks and Black Scholes Model	Prof. U S Rao and Dr. S Subramanian
Pradeep Kumar A	Innovative Solutions to Intractable Problems	Prof. U S Rao
Sohan Dutta	A Study of Energy Conservation Best Practices in Service Sector	Prof. U S Rao
Sriram Kumar K	Lean Management in Service Sector	Prof. U S Rao
Vivek S	Cellular Manufacturing Design Solutions for Multi Product and Varying Demands Situations	Prof. U S Rao
Pratim Banerjee	Social Impact of Rural BPOs – A Framework for Analysis and Development	Prof. A Sudhir Bhaskar
Kannan C V	Dynamics of Career Anchors	Sri Viney K Thakar
Kartikeya Dwivedi	Comparative Study of Career Management Programmes: Indian and Overseas Organizations	Sri Viney Thakar
Venkatakrishnan K S	Influence of Organizational Culture on Employee Commitment in IT Industry	Sri Viney Thakar
Raghav Raj Joshi	The Role of Personal Ethics in Nepalese Financial Institutions	Dr. Deepak Anand
Sidharth Haridas	Corporate Social Responsibility and its Impact on Quality of Work Life of Employees Working in IT Companies.	Dr. Deepak Anand
Mohit Khanna	Exploring the effect of Organizational Change on select outcome variables in an Indian business context	Dr. N Niranjana

Biraj Lama	Formulating Strategies for a Multi-Brand Retail Store in India – a Customer Retention Perspective	Sri Arvind Hejmadi
Nagarjun G	Understanding the Factors that Influence the Attitude of Consumers in Ordering Breakfast Online	Sri Arvind Hejmadi
Gopi Krishna J	An Analysis of Indian Pharmaceutical Industry and the Need for Green Initiatives in the Context of Environmental Sustainability	Sri Arvind Hejmadi
Sai Subba Rao J	Customer Retention Challenge in the Context of Mobile Number Portability in India	Sri Arvind Hejmadi
Sivaramakrishnan K	Role of Dealers in Marketing Strategies of Air Conditioning Manufacturers – A Study	Sri Arvind Hejmadi
Tarrung Kapur	Financial Sector Regulation for Growth and Stability	Dr. S Subramanian
Behara Sitaram	Assessing the Viability of Cocrystallisation Technology in Current Indian Pharmaceutical Industry	Dr. Ramaier Sriram
Borkar Rahul Dinesh	Analysis of Foreign institutional investments into India during post reform period	Sri G Raghavender Raju
K Adwait Shashank	A Study of Consumer Perceptions of Branded Cell Phones in India	Prof. Shiv R Pandit
Rohit Chhabra	A Study of Triple Bottom Line Practices At Select TATA Companies	Prof. Shiv R Pandit
Soumyajit Ghosh	India's Exchange Rate Behaviour and Management: A Post Reform Period Analysis	Sri G Raghavender Raju

MBA Finance Projects

Name	Project Title	Supervisor(s)
Gopalan Dhananjay K	Evaluation of Investment Strategies for Picking Up Small and Mid Cap Stocks in Indian Stock Market	Dr. B Sai Giridhar
Sai Varun	A Study of Select Factors Impacting The Indian Realty Market	Dr. B Sai Giridhar



Abhinav Mahesh T	A Study of the Impact of SELF HELP GROUP - Linkage Model on the Performance of Micro-Finance Industry	Dr. B Sai Giridhar
Gopal Garg	A study of the impact of International financial reporting Standards on the key financial ratios	Sri V N Prakash Sharma
Sai Kumar G V	Community based health insurance in India – A Study	Sri V N Prakash Sharma
Nelli Hema Uma Maheswar	Trends and management of Non Performing Assets in Indian Commercial banks	Sri V N Prakash Sharma
Narendra Kumar C R	Stock Return distribution modelling	Prof. U S Rao and Dr. S Subramanian
Iyer Kalyana Sundaram N	Development of A Modified Option Pricing Model	Prof. U S Rao and Dr. S Subramanian
Pandit Ashutosh Deepak	Identifying Bubbles in the Financial Markets and Predicting their Crash Using the Hindenburg Omen	Prof. U S Rao and Dr. S Subramanian
Siddharth Shankar K K	Innovation Trends in Retail Banking	Dr. Deepak Anand
Priyant Sundas	Financial Management and Ethics in the International Music Industry	Dr. Deepak Anand
N V S Pawan Kumar	A Comprehensive Review of Clean Development Mechanism Projects Performance in India	Prof. Shiv R Pandit
Bhargav Meenam K	Financial Literacy A Key Factor to Achieve Financial Deepening in India	Dr. Deepak Anand
Sreeraj P Menon	Securitization as a financial management tool with ethical consideration	Dr. Deepak Anand
Rishabh Sachdev	A Study of the Relevance of Corporate Diversification in Emerging Markets	Dr. Deepak Anand
Vijay Sai H J	Sub Prime Crisis and Portfolio Diversification: A Study of the BRIC and US Economics	Dr. Deepak Anand
Sai Kumar S N	Central Bank Intervention and Foreign Exchange volatility	Dr. Deepak Anand
Saish R Kumar	Performance Evaluation of Option Strategies	Dr. S Subramanian
Shah Nishit Kanchan Kumar	An Empirical Study on the Performance of Portfolio Screens in the Indian Equity Market	Dr. S Subramanian
Rohit Nair	Empirical Testing of Trading Rules in Global Stock Markets	Dr. S Subramanian
Sai Abhishek	A Study on Individual Stock Futures As Hedging Instruments	Dr. S Subramanian
Bhargav P	Infrastructure and Economic Development in India: Role of Public Private Partnerships	Sri G Raghavender Raju

RESEARCH PUBLICATIONS

Journal Papers

- Shah S (2011) Corporate Governance in a Family-Owned Corporate Organisation in India – A Case Study of TVS Motor Company Ltd. *South Asian Journal of Management, International Journal of the Association of Management Development Institutions of South Asia (AMDISA)*, University of Hyderabad Campus, Hyderabad, 18(3), 150-172.
- Shah S (2011) Customer Relationship Management at Wipro Infotech: A Case Study. *Metamorphosis*, Indian Institute of Management Lucknow, 10(1), 42-55.
- Shah S (2011) Employee and Labour Welfare at the Tata Group Companies: A Case Study. *Management and Labour Studies*, Xavier's Labour Research Institute (XLRI), School of Business and Human Resources, Jamshedpur, 35(3), 311-336.
- Shah S (2011) Human Resource Management in the Indian IT Industry: A Case Study of Wipro Ltd. *Anthology of Cases*, School of Business, Alliance University, Bangalore.
- Shah S (2011) Insights into Governance at Wipro Ltd.: A Case Study. *IUP Journal of Corporate Governance*, 10(4), 60-73.
- Shah S (2011) The Needs of the Stakeholders are the Seeds of Growth for the Organisation: Vignettes of Wisdom from Mr. G. Narayana. *Journal of Values-Based Leadership*, International Journal of the College of Business Administration, Valparaiso University, USA, 4(2), 47-58.
- Aditya S C, Ramamoorthy V E and Shah S (2012) Corporate Environmental Excellence: A Study of Select Corporations in India. *Dimensions*, International Journal of IBS Mumbai, 3(1).
- Shah S (2012) Business and Corporate Stakeholders Management: Interactions with an eminent expert from the Indian Banking and Finance Industry. *Journal of Values-Based Leadership*, International Journal of the College of Business Administration, Valparaiso University, USA, 5(1), 27-36.
- Shah S (2012) Customer Stakeholder Management in the Indian Construction Industry: A Case Study of Larsen & Toubro's ECC Division. *Journal of Marketing Vistas*, Institute of Public Enterprise, Osmania University Campus.
- Shah S (2012) Interlinking Stakeholder Welfare and Corporate Success in a Family-owned Organisation. *Indian Management*, Journal of the All India Management Association (AIMA).
- Shah S and Bhaskar S A (2012) Management of Shareholders and Government Stakeholders in a Public Sector Undertaking: A Case Study of Bharat Petroleum Corporation Ltd., *Vilakshan*, Xavier Institute of Management, Bhubaneswar.

Conference Papers

- Kumar P S S and Giridhar S B (21-22 Aug 2011) Strategies to improve tourism potential in South India. *National conference on Indian aviation and tourism: Opportunities, Challenges and new direction*, Mangalore University & Airport Authority of India.
- Shah S (8-9 Sep, 2011) Corporate Governance at HDFC Bank Ltd.: A Study of the Best Practices with respect to the Shareholders and the Government. *International Conference on Corporate Governance in Banking*, Institute of Public Enterprise, Hyderabad.

- Shah S (27-28 Oct 2011) Measuring Stakeholder Welfare in Indian Corporate Organisations: An Empirical Study. *EABIS 2011 Colloquium on a New Era of Development: The Changing Role & Responsibilities of Business in developing countries*, INSEAD, France.
- Shah S (7 Nov 2011) Corporate Social Responsibility in India. *Special Seminar at the Centre for Corporate Social Responsibility*, Copenhagen Business School, Copenhagen, Denmark.
- Shah S (27-28 Nov 2011) Executive Perceptions on Shareholder Welfare: An Empirical Study in Corporate India. *International Conference on Corporate Governance in Asia*, Jointly organised by ONGC Subir Raha Chair on Corporate Governance Institute of Public Enterprise, Hyderabad and Universiti Tun Abdul Razak, Kuala Lumpur, Institute of Public Enterprise, Hyderabad.
- Chandrasekhar B (7 Jan 2012) Microsavings as a potential component of Indian Microfinance. *5th IIM-A Doctoral Colloquium*, Indian Institute of Management, Ahmedabad.
- Shankar B and Bhaskar K R (7-8 Jan 2012) Conceptual model for Social Entrepreneurial Development. *5th IIM-A Doctoral Colloquium*, Indian Institute of Management, Ahmedabad.
- Iyer K N, Subramanian S and Rao U S (10-11 Feb 2012) A Modified Option Pricing Model. *Global Business and Finance Conference GBFC 12*, Institute of Management Technology, Nagpur, Maharashtra.
- Shah N and Subramanian S (10-11 Feb 2012) An empirical analysis of portfolio screens in the Indian Equity Market. *Global Business and Finance Conference GBFC 12*, Institute of Management Technology, Nagpur, Maharashtra.
- Kumar S R and Subramanian S (10-11 Feb 2012) Performance Evaluation Of Option Strategies. *Global Business and Finance Conference GBFC 12*, Institute of Management Technology, Nagpur, Maharashtra.
- Nair R and Subramanian S (10-11 Feb 2012) Empirical Testing of Trading Rules in Global Stock Markets. *Global Business and Finance Conference GBFC 12*, Institute of Management Technology, Nagpur, Maharashtra.
- Sai Vinod M S and Ramaier S (17 Feb 2012) Green Supply Chain: Profile of Indian Consumer – An exploratory study. *National Conference on Green Supply Chain Management*, Galgotia Business School, Greater Noida.
- Kumar R N, Subramanian S and Rao U S (22-24 Feb 2012) Stock Return Distribution Modeling. *National Conference on Redefining Business Horizons*, Indira Institute of Management, Pune.
- Sai A and Subramanian S (22-24 Feb 2012) A Study on Individual Stock Futures as Hedging Instruments. *National Conference on Redefining Business Horizons*, Indira Institute of Management, Pune.
- Chittaranjan S, Giridhar S B and Rao U S (5-6 Mar 2012) Characteristics of Outstanding Companies with Sustained Growth and Profitability in the Indian Paint Industry. *International Research Conference on Management, Banking and Finance*, Jamnalal Bajaj Institute of Management Studies, Mumbai.
- Chittaranjan S, Rao U S and Giridhar S B (5-6 Mar 2012) Characteristics of outstanding companies with sustained growth and profitability in the Indian paints industry. *International Research Conference on Management, Banking and Finance*, Jamnalal Bajaj Institute of Management Studies, Mumbai.
- Abhishek K and Sai Giridhar B (5-6 Mar 2012) Bio A study of mergers and acquisitions as a tool for value creation. *International Research Conference on Management, Banking and Finance*, Jamnalal Bajaj Institute of Management Studies, Mumbai.

- Manohar S K and Pandit S R (5-6 Mar 2012) Managing Innovation during a Downturn. *International Research Conference on Management, Banking and Finance*, Jamnalal Bajaj Institute of Management Studies, Mumbai.
- Shah S (5-6 Mar 2012) A Customer Welfare Framework for Indian Corporate Organisations: A Mixed Method Study. *International Research Conference on Management, Banking and Finance*, Jamnalal Bajaj Institute of Management Studies, Mumbai.
- Pandit A, Subramanian S and Rao U S (5-6 Mar 2012) Identifying bubbles in the Financial Markets and predicting their crash using the Hindenburg Omen. *International Research Conference on Management, Banking and Finance*, Jamnalal Bajaj Institute of Management Studies, Mumbai.
- Talreja A and Giridhar S B (5-6 Mar 2012) A Study of the Impact of Self Help Group – Linkage Model on the Performance of Micro-Finance Industry. *International Research Conference on Management, Banking and Finance*, Jamnalal Bajaj Institute of Management Studies, Mumbai.
- Anand D (14-16 Mar 2012) Religious Symbolism and the Unity of Vishnu and Siva. *Spiritual World Conference 2012*, Indian Foundation for Vedic Science, India in collaboration with Govt. College Bahadurgarh, Haryana.
- Nagadeep K, Subramanian S and Rao U S (21-22 Mar 2012) Prediction of IN-VIX and Option Price Using Neural Networks and Black Scholes Model. *CSIR sponsored National Conference on Intelligent Manufacturing Systems (NCIMS-2012)*, Hindustan college of Engineering and Technology, Coimbatore.
- Dutta S and Rao U S (4 Apr 2012) Energy Conservation Best Practices in Service Sector. *National Conference on Management Practices at Cross Roads: Challenges and Opportunities*, Dept. of Management Studies, Kongu Engineering College, Erode, Tamil Nadu.
- Kumar P and Rao U S (4 Apr 2012) Innovative Solutions to Intractable Problems – Government Subsidy Reduction. *National Conference on Management Practices at Cross Roads: Challenges and Opportunities*, Dept. of Management Studies, Kongu Engineering College, Erode, Tamil Nadu.
- Kumar S K and Rao U S (4 Apr 2012) Cellular Manufacturing Design Solutions for Multi-Product and varying demand situations. *National Conference on Management Practices at Cross Roads: Challenges and Opportunities*, Dept. of Management Studies, Kongu Engineering College, Erode, Tamil Nadu.
- Kumar S K and Rao U S (4 Apr 2012) Learn Management in Service Sector. *National Conference on Management Practices at Cross Roads: Challenges and Opportunities*, Dept. of Management Studies, Kongu Engineering College, Erode, Tamil Nadu.

Chapters in Books

- Shah S (2011) Corporate Governance at HDFC Bank Ltd.: A Study of the Best Practices with respect to the Shareholders and the Government in: *Corporate Governance in Banks* (pp. 226-245). Macmillan Publishers – Advanced Research Series.
- Shah S (2011) Executive Perceptions on Shareholder Welfare: An Empirical Study in Corporate India in: *Corporate Governance in Asia* (pp. 176-202). Allied Publishers Pvt. Ltd.

DEPARTMENT OF COMMERCE

VISION

- To impart basic knowledge and skills in all the important subjects in the field of Commerce.
- To equip the students with thorough knowledge 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 to aid 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 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 personality of students equip them with skills not merely for living but also for life. The exposures to senior managers and leaders from industry as well as the focus on current issues and practical learning equip the students with a sound base for pursuing higher education and building a meaningful and rewarding career.

COURSES OFFERED

Undergraduate	B.Com. (Hons.)
Postgraduate	Master of Finance

TEACHING FACULTY

Head of Department: Dr. (Miss) N Niranjana

Name	Designation	Qualification
Dr. (Miss) N Niranjana	Professor (Hon.)	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	Associate Professor	M.Com., FCMA
Sri Sanjay Sahni	Associate 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

Name	Designation / Institution	Course / Topic Covered	Duration
Sri A Srinivasa Rao	Former Head, Dept. of Economics, Jawahar Bharati Deg. College, Nellore, Andhra Pradesh	Economic Environment of Business	Winter Semester, 2011/12
Sri S Ramesh	Fellow, Institute of Company Secretaries of India, New Delhi	Banking & Marketing	Winter Semester 2011/12
Mrs. Anubhuti Tandon	Process Consultant, Rural Shores, Bangalore	Business Management	Two days per week, academic year 2011/12
Mr. K Parvatheesam	Company Secretary, Infosys, Bangalore	Corporate Governance	18 Jun 2011

Mr. Vivek Gour	CEO, Airworks, Delhi	Ethics in Business	23 July 2011
Mr. G Sriram	Sr. Manager, Deloitte Haskins & Sells, Chennai	IFRS	13 Aug 2011
Sri Chandra Mohan	Manager, State Bank of India, Kaudugodi Branch, Bangalore	Payment settlement system in Indian Banking system	15-20 Aug 2011
Mr. Vivek Gour	CEO, Airworks, Delhi	Mergers & Acquisitions	26 Nov 2011
Mr. S Balasubramanian	Sr. Director, Infrastructure Development Finance Company Limited (IDFC), Chennai	Infrastructure Financing	3 Dec 2012
Prof. Soumya Sivakumar	Asst. Professor, Marketing, Marymount University, Arlington, Virginia, USA	Principals of Marketing, Management of International Business	22-24 Dec 2011
Mr. R Subramanian	Consultant, Siemens, Bangalore	ERP	24 Jan 2012
Mr. A Balasubramanian	CEO, Birla Sunlife Mutual Fund, Mumbai	Investment process of Mutual Funds	28 Jan 2012
Mr. V Harikesh	Vice-President, Lincoln International, Chennai	Private Equity	18 Feb 2012

WORKSHOPS ATTENDED

Dr. (Miss) T R Rajeswari

- Presented a paper titled Tangible and Intangible Content Delivery of Commerce Education – A holistic approach in UGC sponsored national seminar on “Challenges of commerce education in the twenty-first century”, V V Vanniaperumal College for Women, Virudhunagar, 22 Sep 2011.

Miss U Suma

- Attended a National Conference on ‘Knowledge Dissemination through Journal Publications’ organized by Total Quality Management System (TQMS) and Centre for Education Beyond Curriculum, Christ University, Bangalore, 28-30 Sep 2011.

Dr. N Sivakumar

- Attended a Refresher Course in Commerce conducted by the Department of Commerce and Research Centre, University of Pune, 3-24 Oct 2011.

SPECIAL ACHIEVEMENTS

Dr. N Siva Kumar

- Awarded the “Sai Krishna award for excellence in research” for 2011-11 in the areas of Commerce, Management, Economics and Education by Sri Sathya Sai Institute of Higher Learning.
- Selected as Reviewer of Journal of Commerce and Accounting Research; Jun 2011 onwards.
- The essay entitled “What is the key to growth of the insurance industry in India? – Innovation based growth paradigm” was selected as one of the top 10 essays in the second Energise Insurance in India essay contest conducted by Asia Insurance Review, Singapore and GIC Re, 2011-12.

THRUST AREAS OF RESEARCH

- Values based management
- Values based commerce education
- Gender Issues in Management

DOCTORAL RESEARCH SCHOLARS

Scholar Name	Area of Research	Research Supervisor
Miss U Suma	Women executives in India – A diagnostic and descriptive study	Prof. R Kumar Bhaskar

RESEARCH PUBLICATIONS

Journal Papers

- Sivakumar N (2011) Management of financial market scandals – Regulatory and values based approaches. *Humanomics – The International Journal of Systems and Ethics*, 27(3), 153-165.
- Sivakumar N, Mallajosyula O and Sriram G (2011) Development of Integrated Personality based on Indian Ethos: An Empirical Case Study of Sri Sathya Sai Institute of Higher Learning. *IUP Journal of History and Culture*, 5(3), 1-27.
- Sivakumar N (2012) Global Financial crisis – Dharmic Transgressions and Solutions. *International Journal of Social Economics*, 39(1/2), 39-54.
- Sivakumar N (2012) What is the key to growth of the insurance industry in India? – Innovation based growth paradigm. *IRDA Journal*, Forthcoming.
- Sivakumar N and Agarwal S (2012) Development and testing of a model of factors affecting consumer attitudes towards sustainable use of advertising space on soft drinks and health drink packages – A cybernetic approach. *Journal of marketing vistas*, Forthcoming.
- Sivakumar N, Balasubramanya A and Sundaresan C N (2012) Sustainable supply chain excellence – A biomimetic perspective. *IUP Journal of Supply Chain Management*, 9(1), 21-39.

Conference Papers

- Suma U and Kumar Bhaskar R K (Oct 2011) Behind a Successful Woman Executive. *National Conference on Empowerment of Women through Leadership & Entrepreneurship* organized by AMS School of Informatics, Osmania University, Hyderabad.
- Sathyanarayanan S and Sivakumar N (24-26 Feb 2012) Transformation of collective spiritual consciousness using information technology – The case study of Radiosai. *International Conference on Spiritual paradigm for surmounting global management crisis*, School of Management Sciences Varanasi, in association with Claflin University and California State University, San Bernardino.

Chapters in Books

- Sivakumar N and Ravikumar T (2012) Values based environment education and environmentally friendly living – A multivariate analysis In: *International Environmental Economics – Management and Policy Issues* (pp. 91-114). Discovery Publishing House Pvt. Ltd. ISBN: 978-93-5056-151-5.

DEPARTMENT OF ECONOMICS

VISION

To produce socially responsible students with sound knowledge in economic theory and its applications in order to equip them to serve positions of responsibility in government, international bodies, the corporate sector, universities and research institutions.



OVERVIEW

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

The fine element of this design is to the balance between a rigorous training, imparted through the use of computer software and large scale databases to arrive at scientifically correct solutions, promoting a deep understanding of theories, and 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 Methods, so as to inculcate the essential techniques for economic analysis of problems arising in a variety of contexts. Electives and optional courses permit students to acquire a more advanced training in the branches of their choice. In a majority of the courses, the emphasis on 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

Head of Department: Prof. G Balachandran

Name	Designation	Qualification
Prof. G Balachandran	Professor	M.A., Ph.D.
Dr. R Prabhakar Rao	Associate Professor	M.Sc., Ph.D.
Dr. Gopal Chengalath	Associate Professor (Hon.)	M.A., Ph.D.
Sri G Raghavender Raju*	Asst. Professor	M.A.
Dr. (Ms.) M R Geetha Bala	Asst. Professor	M.A., M.Ed., M.Phil., Ph.D.
Shri P Narayana Reddy	Asst. Professor (Hon.)	B.Ed., M.Sc.
Sri Harish Mani	Asst. Professor	M.A.

* also pursuing Doctoral Research

VISITING FACULTY

Name	Designation / Institution	Course Covered	Duration
Prof. Vishwanath Pandit	Former Vice-Chancellor, SSSIHL	Macro Economics, Financial Markets, Ethics, Economy & Society	Academic Year 2011/12
Prof. N Rajagopala Rao	Former Head, Dept. of Economics, SSSIHL	Micro Economics, Econometrics, Statistical Inference	Academic Year 2011/12
Sri M Sathya Sai	Economic Consultant, Hyderabad	Introduction to Finance	Winter Semester 2011/12
Dr. (Ms.) Sarmistha Das	Asst. Professor and Head, Dept. of Economics and Business Environment, Eastern Institute for Integrated Learning in Management, Kolkata	Intermediate Micro Economic Theory, Consumer Behaviour	6-16 Jun 2011
Sri Sundara R Krishna	CEO, Preeti Petrochem USA, Dallas, Texas, USA	Indian Agriculture	6 Jul 2011
Prof. B L Pandit	Former Head, Dept. of Economics, Delhi School of Economics, University of Delhi, New Delhi	Monetary Theory and Policy	3-15 Aug 2011
Prof. T C S R Sharma	Defence Research & Development Organisation (DRDO), Hyderabad	Statistical Interference	7-14 Aug 2011
Prof. S S Sivakumar	CEO and Chairman, MIS Akashganga AME (India) Pvt. Ltd., Chennai	Economic Institutions, Systems and Theories – Economic Strategies	15-30 Aug 2011
		Economic Institutions, Systems and Theories	15 to 23 Feb 2012
Prof. Madhu S Mohanty	Professor of Economics, California State University, Long Beach, California, USA	Macro Economic Theory	2-18 Sep 2011
Prof. B C Sutradhar	Dept. of Mathematics and Statistics, Memorial University of Newfoundland, St. John's, Newfoundland, Canada	Advanced Econometric Theory	12-25 Nov 2011
Dr. Ram P Aneja	Former Managing Director, National Dairy Development Board, Anand	Sectoral analysis of agriculture & power sectors in India of NPRD	7 Dec 2011 to 4 Jan 2012
Prof. K E Seetharam	National University of Singapore, Singapore	Indian Economy: Challenges for India and China	4-5 Feb 2012
Prof. V L Rao	Gitam School of International Business, Gitam University, Visakhapatnam	Indian Economy: Issues and Policies	23-29 Feb 2012

WORKSHOPS & CONFERENCES CONDUCTED

Title: All India Economics Conference on “Economic Challenges: Global and National Perspectives”

Dates: 23-25 Feb 2012

Venue: Multimedia Centre, SSSIHL, Prasanthi Nilayam Campus

Keynote Address: Prof. S Mahendra Dev, Director, Indira Gandhi Institute of Development Research, Mumbai

Theme of the Conference

The world is living through the times of great economic anxiety. The economic sky looks troubled and turbulent as the global activities have slow down and downside risks have increased. A close examination reveals that the nucleus of the present problems is the crisis of confidence. Apparently, it is evident that the adverse developments in the real economy and the financial sector keep feeding off each other, propelling each other down. As a result, in Europe, there has been a loss of market confidence in both governments and banks. On top of this, unemployment remains unacceptably high in many countries.

What does this mean for the policy path forward? The advanced countries, especially those in the Europe, are at the centre of a debt crisis, which started with Greece. Recently, euro-zone leaders have started building the key pillars of a solution. But, what is needed now is implementation.

Policies also need to focus on the bigger picture—the need to restore stability and sustained growth. The advanced economies need to strike an appropriate balance between fiscal and monetary policy to ensure this success. It means forging ahead with structural policies that focus squarely on boosting competitiveness, growth and employment. Streamlining the financial sector regulations to ensure a safer and more stable financial sector that has become the central objective.

While many advanced economies face cold headwinds, many emerging markets are facing too much heat—inflation pressures, strong credit growth, rising current account deficits and the like.

Low-income countries have been experiencing reasonable growth, but remain highly vulnerable to economic dislocation from elsewhere in the world—including from commodity price volatility, which comes with heavy social costs. And in today's interconnected global economy, no country and no region is immune to these risks. What we need is a strong political will across the world—leadership over brinksmanship, cooperation over competition and action over reaction without sacrificing the human values.

Developing economies like India need a conducive global economic environment to address the vast challenges they face. Indian economic problems are both of native origin and imported.

Global governance mechanisms have become imperative to carry forward the process of reforms at home in tune with the international monetary and financial system. But, it is observed that the development path of the Indian economy is bipolar and the inclusive growth theory is sound on paper than on practice. Major section of the population is dissatisfied. On top of it, there are pulls and pressures from different quarters. It has become the responsibility of the academia, researchers, policy makers and civic society to think aloud by making a close audit of Indian economy in right perspective in the environment of global scenario.

This conference envisages the distinguished participants to enter into the shoes of the world community to understand the problems it faces in totality, while considering India as a part of it and offer solutions that befit the nature, depth and applicability of the problems. Sri Sathya Sai Institute of Higher Learning that stands apart as an institution which gives emphasis to practice over than precept, is the right environment for the participants to present their views that are practical than to be more of an academic exercise. Following the direction of the Revered Founder Chancellor, Bhagawan Sri Sathya Sai Baba, the Department of Economics, Sri Sathya Sai Institute of Higher Learning expects the participants to be pragmatic in thought, word and deed so that the best solutions will emerge from this conference.

PROGRAMME

DAY 1: 23 Feb 2011 - Inaugural Session

Name & Designation	Title of the Talk
Students	Invocation
Prof. G Balachandran, Head, Dept. of Economics, SSSIHL and Dean, Faculty of Humanities & Economics	Welcome Note
Students	Presentation of Bouquets
Sri. K Chakravarthi, IAS (Retd.), Trustee, Sri Sathya Sai Central Trust	Lighting the Lamp
Prof. V Pandit, Former Vice-Chancellor, SSSIHL	Inaugural Address
Prof. S Mahendra Dev, Director, Indira Gandhi Institute of Development Research (IGIDR), Mumbai	Keynote Address
Prof. N Rajagopala Rao, Former Professor (Hon.), Department of Economics, SSSIHL	Vote of Thanks

23-24 Feb 2011 - Invited Lectures

Name & Designation	Title of the Talk
Sri Gokak A V, Former Vice-Chancellor, SSSIHL	Indian Economy: Governance and Management
Prof. V M Rao, Honorary Visiting Professor, Institute for Social and Economic Change, Bangalore	Agriculture Stagnation and Hunger: A View from the Agrarian Window
S Krishnaswami, CEO, Preeti Petrochem USA, Dallas, Texas, USA	World Society: Summary of Key Survival challenges and Values-based Solutions
Prof. G Venkataraman, Former Vice-Chancellor, SSSIHL	Market, Money and Morality

DAY 1: 23 Feb 2011 - Technical Session I: Agricultural and Rural Development

Name & Designation	Title of the Talk
Sri K V Raghavulu, Chief General Manager, National Bank for Agriculture & Rural Development (NABARD), Hyderabad	Financial Inclusion through Micro Credit
Prof. K L N Reddy, Former Professor, Dept. of Economics, SSSIHL	Environmental Ethics
Prof. D V Subba Rao, Professor, Acharya N G Ranga Agricultural University, Hyderabad	Good Governance for Agriculture sector in India
Ms. Sheeba Andrews, Doctoral Research Scholar, Institute for Social and Economic Change (ISAC), Bangalore	Land Use Change and Its Implications: With Special Reference to Kerala
Dr. (Ms.) Tanveer Ishrath, Faculty, Institute of Public Enterprise (IPE), Hyderabad	Agriculture and Inclusive Growth in India
Ms. Subhashree Banerjee, Doctoral Research Scholar, Institute for Social and Economic Change (ISAC), Bangalore	Efficacy of National Policy on the Land Acquisition Act and Resettlement and Rehabilitation
Sri Harish Mani (Former Asst. Professor), Prof. G Bhalachandran (Former Head, Dept. of Economics, SSSIHL), and Prof. V Pandit (Former Vice-Chancellor, SSSIHL), Dept. of Economics, SSSIHL	Public Investment in Agricultural and GDP Growth: Another Look at the Inter-sectorial Linkages and Policy implications

Sri Gopakumar K U (Doctotral Research Scholar) and Prof. V Pandit (Former Vice-Chancellor, SSSIHL), Dept. of Economics, SSSIHL

Food Inflation In India: 1980 to 2010

DAY 2: 24 Feb 2011 - Technical Session II: Growth and Development

Name & Designation	Title of the Talk
Dr. (Ms.) Sarmistha Das, Asst. Professor and Head, Dept. of Economics and Business Environment, Eastern Institute for Integrated Learning in Management, Kolkata	Quality of Life- Destination West Bengal: pilot Study
Dr. (Ms.) Sai Sailaja, Asst. Professor, Institute of Public Enterprise, Hyderabad	A Panel Data Analysis of Electricity Demand and Reforms- A Study of Selected Indian States
Sri Naidu P A, Asst. Professor, Institute of Public Enterprise, Hyderabad	Inclusive Growth and Economics Development in India
Sri Kavya M, Sri Guha Thakurata and Sri Soumava Basu, Doctoral Research Scholars, Hyderabad Central University, Hyderabad	Unequal Growth and Environmental Degradation: A Political Economy of India's Liberalisation

Technical Session III: Students' Presentations

Name & Designation	Title of the Talk
Sri Akash Krishnan (Student) and Sri Harish Mani (Former Asst. Professor), Dept. of Economics, SSSIHL	Price wars and market concentration: an experimental study
Sri Arjun Prasad P (Student) and Sri Raghavender Raju (Asst. Professor), Dept. of Economics, SSSIHL	Foreign Exchange Derivatives Market in India: Status and Prospects
Sri Bhargav Meenam K (student) and Dr. Deepak Anand (Asst. Professor), Dept. of Management Studies, SSSIHL	Financial Literacy as a key factor to achieve Financial Deepening in India
Sri Bhargav P (Student, Dept. of Management Studies) and Sri G Raghavender Raju (Asst. Professor, Dept. of Economics), SSSIHL	Infrastructure and Economic Development in India: Role of Public Private Partnerships
Sri Harish Kumar H S (Student) and Dr. R Prabhakara Rao (Head), Dept. of Economics, SSSIHL	An Empirical study of Inflation-Adjusted stock returns in Indian stock markets
Sri Lakshmikanth Sharma and Sri G Raghavender Raju (Asst. Professor, Dept. of Economics), SSSIHL	Euro Debt Crisis: Indian Economy Perspective
Sri Radha Preetam K R (Student) and Dr. R Prabhakara Rao (Head), Dept. of Economics, SSSIHL	Oil Prices, Inflation and Economic Growth
Sri Ratheesh K (Student) and Sri G Raghavender Raju (Asst. Professor), Dept. of Economics, SSSIHL	Capital Flows and Their Macroeconomic Effects in India
Sri Sai Kumar S N (Student) and Dr. Deepak Anand (Asst. Professor), Dept. of Management Studies, SSSIHL	RBI Intervention and Its effect on volatility
Sri Soumyajit Ghosh (Student, Depst. of Management Studies) and Sri G Raghavender Raju (Asst. Professor, Dept. of Economics), SSSIHL	India's Exchange Rate Behaviour and Management: A Post Reform Period Analysis

DAY 3: 25 Feb 2011 - Technical Session IV: Monetary, Fiscal and External Sector Policies

Name & Designation	Title of the Talk
Dr. T V G Sarma, Associate Professor, Chh. Shahu Institute of Business Education and Research, Kolahapur, Maharashtra	New economic reforms and manufacturing industries in western Maharashtra
Sri Rajan S S (Doctoral Research Scholar) and Prof. V Pandit (Former Vice-Chancellor), SSSIHL	Efficiency and productivity growth in Indian banking
Dr. Adithya Sathyan C, Institute for Social and Economic Change, Bangalore	Exchange rate pass through to import prices: panel evidence from emerging market economies
Sri G Raghavender Raju (Asst. Professor) and Prof. V Pandit (Former Vice-Chancellor), Dept. of Economics, SSSIHL	A Structural Model of India's Balance of Payments
Sri Rajbhushan J Nayak (Doctoral Research Scholar) and Prof. G Balachandran (Head), Dept. of Economics, SSSIHL	Fiscal Policy in India: An empirical analysis of the current stance
Ms. Vidhisha Vyas, Doctoral Research Scholar, Indian Institute of Technology, Bombay	Trends in Mergers and Acquisitions in Indian Manufacturing
Sri Prabhakar (Doctoral Research Scholar) and Prof. Arulallan (Associate Professor), Guru Nanak Dev College, Chennai.	Labour Issues in Special Economic Zones
Sri Siva Kiran Gupta (student) and Dr. R Prabhakara Rao (Head), Dept. of Economics, SSSIHL	A Study on macroeconomic determinants of stock markets in India
Sri Sathya Sai M, Visiting Faculty, Dept. of Economics, SSSIHL	Life to 100 – Economic challenges and opportunities an Indian perspective
Dr. N Siva Kumar, Asst. Professor, Dept. of Commerce, SSSIHL	Energy equity – Divine perspectives

Concluding Session

Name & Designation	Title of the Talk
Guest of Honour: Prof. K Ramakrishna Reddy, Vice-Chancellor, Sri Krishnadevaraya University, Anantapur, Andhra Pradesh	Valedictory Address

DEPARTMENTAL COLLOQUIUM

The Department of Economics holds colloquiums at the Institute campus in Prasanthi Nilayam every Wednesday afternoon for its III year Undergraduate and I & II year M.A. students and faculty members. The objective of the colloquium is to expose students to contemporary issues relating to the national and global economy.

Date	Presenter	Designation	Topic
8 Jun 2011	Prof. N Rajagopala Rao	Visiting Faculty, Dept. of Economics, SSSIHL	History of Economics
15 Jun 2011	Prof. D V Subba Rao	Professor, Acharya N G Ranga Agricultural University, Hyderabad	Sustainable Agriculture
22 Jun 2011	Prof. Jayaraman	Visiting Faculty, Dept. of Economics, SSSIHL	Ethics and Economics
29 Jun 2011	Prof. G Bhalachandran	Professor, Dept. of Economics, SSSIHL	Economic philosophy of Ancient Indian Temples

6 Jul 2011	Sri S Krishnaswami	CEO, Preeti Petrochem USA, Dallas, Texas, USA	India's Agriculture
13 Jul 2011	Presentations by II M.A. students	Dept. of Economics, SSSIHL	Review of II M.A. Dissertation work
20 Jul 2011	Presentations by II M.A. students	Dept. of Economics, SSSIHL	Review of II M.A. Dissertation work
27 Jul 2011	Presentations by II M.A. students	Dept. of Economics, SSSIHL	Review of II M.A. Dissertation work
10 Aug 2011	I M.A & III Undergraduate students	Dept. of Economics, SSSIHL	Status of Indian Agriculture
17 Aug 2011	I M.A. & III Undergraduate students	Dept. of Economics, SSSIHL	Agriculture price policy
24 Aug 2011	Prof. S S Sivakumar	CEO and Chairman, MIS Akashganga AME (India) Pvt. Ltd., Chennai	State, Market and Civil Society
7 Sept 2011	I M.A. & III Undergraduate students	Dept. of Economics, SSSIHL	WTO and related issues
14 Sep 2011	Prof. Madhusudan S Mohanty	Professor, California State University, Los Angeles, USA	What Determines Happiness: Income or Attitude: An Evidence from US data
21 Sep 2011	II M.A. Students	Dept. of Economics, SSSIHL	Review of II MA Dissertation work
16 Nov 2011	Prof. B C Sutradhar	Memorial University, Canada	Recent Advances in Econometric Modelling
30 Nov 2011	Sri Mandeep Sandhu	Senior Management Consultant, IBM Global Business Services	Health Economics: Holistic approach
7 Dec 2011	Presentations by I M.A. & Final year (Hons.) students	Dept. of Economics, SSSIHL	Euro crisis causes and impact on other Economies
21 Dec 2011	Dr. Ram P Aneja	Former Managing Director, National Dairy Development Board, Anand	Managing sectorial economies
18 Jan 2012	Sri Sathya Sai M	Visiting Faculty, Dept. of Economics, SSSIHL	Life Death and Money
25 Jan 2012	Sri Akash Krishnan	Student, I M.A. SSSIHL	Combating Inflation
15 Feb 2012	Sri Gopakumar K U	Doctoral Research Scholar, Dept. of Economics, SSSIHL	Food Inflation in India
29 Feb 2012	Prof. V L Rao	Gitam School of International Business, Gitam University, Visakhapatnam, Andhra Pradesh	Euro zone Crisis
14 Mar 2012	Students of I M.A. & Final year (Hons.)	Dept. of Economics, SSSIHL	Happiness and Economics

WORKSHOPS ATTENDED

Sri G Raghavender Raju

- Attended a UGC-sponsored Refresher Course in Economics conducted by the UGC Academic Staff College, University of Mysore, Mysore, 25 Jul to 14 Aug 2011.

SPECIAL ACHIEVEMENTS

Achievement in National level exams

- Sri Rajbhushan Jagdish Nayak and Sri Sivakiran Gupta qualified UGC-NET examination for Lectureship

Sri G Raghavender Raju

- Delivered two Invited lectures on “Multivariate Regression – problem of Multicollinearity” along with computer practicals, Chh. Shahu Institute of Business Education and Research (SIBER), an autonomous Institute under Shivaji University, Kolhapur, in the National workshop on “Basic Econometrics with Computer Applications”, 11-12 Nov 2011.
- Chaired two sessions in the National workshop on “Basic Econometrics with Computer Applications”, Chh. Shahu Institute of Business Education and Research (SIBER), an autonomous Institute under Shivaji University, Kolhapur, 11-12 Nov 2011.

THRUST AREAS OF RESEARCH

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

DOCTORAL RESEARCH SCHOLARS

Scholar Name	Area of Research	Research Supervisor
Sri Harish Mani	An Analysis of an Economic Growth in a Disequilibrium Framework	Dr. R Prabhakara Rao
Sri G Raghavender Raju	An Analysis of the Current Account in India's Balance of Payments: Under the New Economic Policy Regime	Prof. Vishwanath Pandit
Sri Rajbhushan J Nayak	Sustainability of Public Debt	Prof. G Balachandran and Prof. Vishwanath Pandit

M.Phil. SCHOLARS

Scholar Name	Thesis Title	Supervisor
Sri Siva Kiran Guptha K	A Study on Macroeconomic Determinants of Stock Market in India After Liberalization	Dr. R Prabhakara Rao
Sri Gopakumar K U	Food Inflation in India: 1970 - 2010	Prof. Vishwanath Pandit

PROJECTS & DISSERTATIONS COMPLETED

M.A. Economics Dissertations

Scholar Name	Project Title	Supervisor
Harish Kumar H S	An Empirical Study of Inflation – Adjusted Stock Returns in Indian Stock Markets	Dr. R Prabhakara Rao
Radha Preetam K	A Study on the Impact of Oil Prices on Economic Growth in India	Dr. R Prabhakara Rao
Arjun Prasad P	Foreign Exchange Derivatives Market in India: Status and Prospects	Sri G Raghavender Raju
Gnaneswar P	Analysis of India's Services Exports During Post Liberalisation Period	Sri G Raghavender Raju
Ratheesh K	Capital Flows and their Macroeconomic Effects in India	Sri G Raghavender Raju
Mahesh Bhat	Determinants of Exchange rates in India	Sri Harish Mani
Mayank Joshi	Macroeconomic variables and stock returns: a study of National stock exchange in India	Sri Harish Mani
Prasanta Kumar Nag	Climate Change and Its Impact on Indian Agriculture	Prof. G Balachandran
Saikumar Dhantal	Indian Retail Industry: An Economic Study	Prof. G Balachandran
Saiprasad Dhantal	Growth Prospects and Status of Agro-based Industries: A case study on Indian Horticulture Sector	Prof. G Balachandran

RESEARCH PUBLICATIONS

Journal Papers

- Balachandran G (2011) Kautilya's Model of Sustainable Development. *Humanomics*, 27:1, 41-52.
- Balachandran G (2011) A Path to Sustainable Development. *The India Economic Review*, 8, 70-79.
- Guptha S K K and Rao P R (2011) Stock Market and Economic Growth: An Empirical Analysis for India. *Gavesana Journal of Management*, 3(2), 54-61.
- Mani H G, Bhalachandran G and Pandit V (2011) Public Investment in Agricultural and GDP Growth: Another Look at the Intersectoral Linkages and Policy Implications. *Working Paper No. 201*, Centre for Development Economics, Delhi School of Economics.
- Prasanth C and Raju R G (2011) India's External Debt Under the New Economic Policy Regime. *Journal of International Economics*, 2(2), 59-72.
- Raju R G (2011) Meltdown: India Hurt But Not Burnt. *Eternal India*, 3(7), 83-91.
- Ramakrishna Prasad M and Raju R G (2011) Foreign Exchange Reserves Management In India: Accumulation And Utilisation. *The Asian Economic Review*, 53(3), 503-514.
- Sutradhar B C and Rao P R (2011) On Efficient Inferences in Familial-Longitudinal Binary Models with Two Variance Components. *Journal of Statistical Computation and Simulation*, 81(11), 1609-1626.
- Vardhan H K S, Rao P R and Guptha S K K (2011) A Panel Data Analysis of Stock Market and Investment Behaviour of Firms in India. *GITAM Review of International Business*, 4(1), 35-49.
- Zhaozhi F, Sutradhar B C and Rao P R (2012) Bias Corrected Generalized Method of Moments and Generalized Quasi-likelihood Inferences in Linear Models for Panel Data with Measurement Error. *Sankhya, The Indian Journal of Statistics, Series B*, In Press.
- Gopakumar K U and Raju R G (2012) Estimation of India's Consumption Function. *The Journal of Economic Policy and Research*, Institute of Public Enterprise, Hyderabad, In Press.
- Nayak R J and Balachandran G (2012) Fiscal Policy in India: An Empirical Analysis of the Current Stance. *The Journal of Economic Policy and Research*, Institute of Public Enterprise, Hyderabad, In Press.
- Rao P R, Sutradhar B C and Pandit V (2012) GMM versus GQL Inferences in Semi Parametric Dynamic Mixed Models. *Brazilian Journal of Probability and Statistics*, 26(2), 167-177.

Conference Papers

- Mani H G, Pandit V and Rao P R (1-3 Mar 2012) A Disequilibrium Analysis of the Indian Registered Manufacturing Sector Using Simulated Maximum Likelihood Approach. *48th Annual Conference of the Indian Econometric Society (TIES)*, Department of Economics, Pondicherry University, Pondicherry.
- Raju R G (1-3 Mar 2012) India's External Debt Under the New Policy Regime. *48th Annual Conference of the Indian Econometric Society (TIES)*, Department of Economics, Pondicherry University, Pondicherry.
- Rao P R, Sutradhar, B C and Pandit V (1-3 Mar 2012) Inferences in Dynamic Mixed Models for Binary Panel Data. *48th Annual Conference of the Indian Econometric Society (TIES)*, Department of Economics, Pondicherry University, Pondicherry.



DEPARTMENT OF EDUCATION

VISION

- To imbibe right attitudes and values in pupil teachers along with proficiency in skills related to teaching.
- To facilitate the internalisation of human values, to help the pupil teachers be role models and shape generations of students.



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 i.e. Education is for life and not merely for a living.

COURSES OFFERED

Professional	B.Ed.
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TEACHING FACULTY

Head of Department: Prof. (Miss) Madhu Kapani

Name	Designation	Qualification
Prof. (Miss) Madhu Kapani	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

Dr. (Mrs.) B Rudramamba

- Attended a National Seminar on "Education in Human Values", acted as a resource person and also chaired the session organised by department of education and Human Resource Development (HRD) Dravidian University, Kuppam, 5-6 Jan 2012.

Prof. (Miss) Madhu Kapani

- Invited as resource person to the orientation programme on Science and Spirituality, organized by UGC Academic Staff College, Utkal University, Vani Vihar, Bhubaneswar, Orissa, 9-21 Jul 2011; delivered talks on value-based education, the role of a teacher in values-based education and conducted a workshop.
- Invited as a resource person to a two-day workshop titled "Education for Transformation", conducted by Bharathiya Vidya Bhavan, Kochi Kendra Shikshan Bharati, southern region Kerala. Delivered a talk on Value Education and conducted the workshop for school teachers on how to integrate human values in teaching subjects; 11-12 May 2011.

FACILITIES UPGRADED

- Upgraded the existing computer systems and installed four desktop PCs and other equipment including an LCD projector, printer, handycam digital camera and a television set.

THRUST AREAS OF RESEARCH

- Education in Human Values
- Inculcation of values in subject teaching
- Role of Psychology in Education

RESEARCH PUBLICATIONS

Journal Papers

- Kapani M (2011) Psychology of Prayer – Its role in awakening the Inner self and Methodology of its practice. *Psychology & Education Indian Perspectives*, 574-593.

Conference Papers

- Lavanya P (5-6 Jan 2012) Promoting Values through teaching of Mathematics. *National Seminar on Education in Human Values*, Dravidian University, Kuppam, Andhra Pradesh.
- Rudramamba B (5-6 Jan 2012) Policies and Programs for Education in Human Values. *National Seminar on Education in Human Values*, Dravidian University, Kuppam, Andhra Pradesh.
- Rudramamba B (5-6 Jan 2012) Promoting values through teaching of Social Studies. *National Seminar on Education in Human Values*, Dravidian University, Kuppam, Andhra Pradesh.

Chapters in Books

- Kapani M (2011) Psychology of Prayer – Its role in awakening the Inner self and Methodology of its practice in: *Psychology & Education- Indian perspectives* (pp. 574-593). NCERT (New Delhi). ISBN: 978-93-5007-017-8.
- Kapani M (2011) Women Health and Empowerment in: *Human Rights Education* (pp. 120-134)



DEPARTMENT OF ENGLISH LANGUAGE & LITERATURE

VISION

- To develop, in the students, an awareness of the principles and strategies that underline effective academic and professional communication
- To equip the students with all the required apparatus for the appreciation of various kinds of imaginative writing in English literature, and to train their critical taste and judgement so as to enable them to arrive at an estimate of a given work of art
- 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 to draw from this exercise valuable moral lessons that would help the scholars to become morally empowered individuals



OVERVIEW

The Department of English offers a compulsory 'General English' Course for all the undergraduate students 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 skills elsewhere, as also the influence of the regional languages on any English language learning exercise, a rigorous training is given, to equip the students to communicate efficiently and confidently in English. The Additional English Course – in lieu of another Language – is offered to those students who do not wish 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: Prof. (Miss) Rajeshwari C Patel

Name	Designation	Qualification
Dr. (Miss) S Kanaka Durga	Professor (Hon.)	M.A., M.Phil., Ph.D.
Prof. (Miss) Rajeshwari C Patel	Professor	M.A., Ph.D.
Dr. (Miss) K P Sai Leela	Associate Professor (Hon.)	M.A., Ph.D.
Dr. (Miss) P L Rani	Asst. Professor	M.A., PGCTE, Ph.D.
Dr. Vivek Chauhan	Asst. Professor	M.A., Ph.D.
Dr. Arun Kumar Behera	Asst. Professor	MA, PGDTE, DDE, Ph.D.
Sri. Prashant Luthra*	Asst. Professor	M.A., M.Phil.
Miss Dibba Bhargavi*	Asst. Professor	M.A., M.Phil.
Miss Maitali Verma*	Asst. Professor	M.A., M.Phil.
Miss Divya Goyal*	Teaching Assistant	M.A.

Sri Siddhartha R	Teaching Assistant	M.A.
Prof. S K Sinha	Adjunct Faculty	M.A., Ph.D.
Smt. Aloka Sarkar	Adjunct Faculty	M.A., M.Phil.

* also pursuing Doctoral Research

VISITING FACULTY

Name	Designation / Institution	Course Covered	Duration
Dr. V Panduranga Rao	Former Associate Prof. (Hon.), SSSIHL, and former Reader in English, Sri Venkateswara College, Delhi University	English Language Skills, Literature and Life	Academic year 2011/12
Dr. R Sundaram	Dept. of English, Pondicherry University, Puducherry, Tamil Nadu	Literary Criticism and Structure of Modern English	15-17 Aug 2011
Dr. (Mrs.) J Sundaram	Dept. of English, Pondicherry University, Puducherry, Tamil Nadu	Shakespeare, and, American Literature and Literary Criticism	15-19 Aug 2011

WORKSHOPS ATTENDED

Dr. (Miss) P L Rani

- Attended a National Conference on "Knowledge Dissemination Through Journal Publications" at Christ University, Bangalore, 28-30 Sep 2011.
- Attended a National Workshop on "Doing Research in ELT: Methodologies, Applications & Challenges" at Loyola College, Chennai, 1-2 Dec 2011.

Dr. (Miss) S Kanaka Durga

- Attended a Faculty Development Programme on "Security Analysis and Portfolio Management", at the Indian Institute of Management, Kozhikode, 27 Sep to 1 Oct 2011.

Dr. Arun Kumar Behera

- Attended the 6th International & 42nd Annual English Language Teachers' Association of India Conference on "Teacher Development" at VIT University, Vellore, 16-18 Jun 2011.
- Attended a seminar on Economic Growth & National Unity at the India International Centre, New Delhi, 20 Jul 2011.

SPECIAL ACHIEVEMENTS

Dr. (Miss) P L Rani

- Winner of the British Council "Writing Challenge" and was selected as one of the two Roving Reporters sponsored by the British Council for the Second International Conference For ELT Educators "Assessing and Evaluating ELT Education, Teaching and Learning" at HICC, Hyderabad, 3-5 Mar 2012.

THRUST AREAS OF 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
- European 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 (L,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.
- The ongoing research at the Ph.D. level is on Modern British Literature, European Literature, Indian Writing in English.
- The ongoing research at the M.Phil. level is in the area of Language and Culture Studies, and Indian Writing in English.

DOCTORAL RESEARCH SCHOLARS

Scholar Name	Area of Research	Research Supervisor
Miss Dibba Bhargavi	Moral Perspectives in the Select Novels of Iris Murdoch	Prof. (Miss) Rajeshwari C Patel
Miss Maitali Verma	The Modern Poetic Tradition and the Reconstitution of the 'I': Braving the Battle between Public Person and Private Self	Prof. (Miss) Rajeshwari C Patel
Miss Divya Goyal	The Plays of Henrik Ibsen: A Venture into 'Unexpected Places'	Prof. (Miss) Rajeshwari C Patel
Sri Prashant Luthra	R K Narayan: The Artist as Moralist	Prof. (Miss) Rajeshwari C Patel

M.Phil. SCHOLARS

Scholar Name	Thesis Title	Supervisor
Miss Lalitha Sarma R	The Feminine Mystique: A Study of the Feminine Consciousness in the Selected Novels of Virginia Woolf, Doris Lessing and Anita Desai	Prof. (Miss) Rajeshwari C Patel

Miss Manisha Thakuri	Culture & Communicative Competence Combined - A Study to Identify the Possibility of Reinforcing Learner - Culture through ESL Classes	Dr. (Miss) P L Rani
Miss Aruna Narayanan	Nationhood vs. Selfhood – A Study of the Novels of Amitav Ghosh and Shashi Tharoor	Dr. (Miss) S Kanaka Durga
Miss Uma Devi	Rejuvenation of Values in Modern India through the Selected Prose Works of Swami Vivekananda, Sri Aurobindo, Rabindranath Tagore and Dr. S. Radhakrishnan	Dr. (Miss) S Kanaka Durga

PROJECTS & DISSERTATIONS COMPLETED

M.A. English Language & Literature

Scholar Name	Project Title	Supervisor
P V S S Hari Prasanna	J K Rowling's Harry Potter Series: A Study of the Moral Pattern	Prof. (Miss) Rajeshwari C Patel

RESEARCH PUBLICATIONS

Journal Papers

- Behera A K (2011) Book Review of David Crystal's 'A Little Book of Language'. *Language in India*, 11(5), 167-171.
- Behera A K (2012) How do we learn another language? *The Dawn Journal*, 1(2), 152-157.
- Behera A K (2012) Mother Tongue vis-à-vis other tongue. *The Dawn Journal*, 1(2), 189-193.
- Behera A K and Behera R (2012) Global language: English? *International Journal of English & Literature*, 1(1), 43-52.
- Behera A K and Behera R (2012) Indian English: its linguistic & social characteristics. *International Journal of English & Literature*, 1(1), 53-60.
- Behera A K and Mund T (2011) Sambalpuri: A Dialect or A Language? *Kalahandi Renaissance*, 4(1), 33-41.
- Behera A K and Mund T (2012) Know your audience before you teach: A study on the students of Nist. *International Journal of Social Sciences and Education*, 2(1), 353-363.
- Behera A K and Mund T (2012) Understanding the Theories of Personality: A Step Towards Being Effective in Communication Skills. *International Journal of Social Sciences and Education*, 2(1), 347-352.
- Behera A K and Panda S S (2012) Can we gauge smartness? *Language in India*, 12(5), 28-31.
- Behera A K and Panda S S (2012) Managing the talents: Management's challenge. *Language in India*, 12(4), 18-22.

- Behera A K and Panda S S (2012) Overcoming thought attacks. *International Journal of Psychology Research & Development*, 2(1), 7-13.
- Behera A K and Patra B (2011) Influence of Language in the Development of Humanity. *International Journal of English & Literature*, 2, 31-45.
- Behera A K and Patra B (2012) The Effectiveness of Technology in Teaching Study Skills. *International Journal of English and Literature*, 2(1), 56-61.
- Behera A K and Patra B (2012) Perspective on Second Language Teaching-a Complex Socio-Cultural Phenomenon. *Language in India*, 12(3), 27-33.
- Behera A K and Tripathy B K (2012) Phonetics in language learning. *The Dawn Journal*, 1(2), 198-203.
- Patel R C (2011) Text with a Message: In Defence of Didactic Literature. *Forum for Musings: The JNTU Journal of English Studies in a Special Issue Released as a Festschrift for Prof. A Rama Krishna Rao*, 5(2), 157-167.
- Rani P L (2011) Technology Meets Psychology to Enhance Pedagogy. *Forum for Musings: The JNTU-H Journal for English Studies*, 5(2), 59-68.

Conference Papers

- Behera A K (16-18 Jun 2011) Teaching English literature: social effects and impediments. *6th International & 42nd Annual English Language Teachers' Association of India Conference on Teacher Development*, Vellore Institute of Technology University, Vellore.

Books

- Behera A K (16-18 Jun 2011) Teaching English literature: social effects and impediments. *6th International & 42nd Annual English Language Teachers' Association of India Conference on Teacher Development*, Vellore Institute of Technology University, Vellore.

Chapters in Books

- Behera A K (2012) Motivation in Teaching-various aspects In: *Expression* (pp. 82-85). Deshkal Publications 81-7276-365-3.
- Behera A K (2012) Teaching English literature – Social effects and impediments In: *Expression* (pp. 78-81). Deshkal Publications 81-7276-365-3.
- Panda S S and Behera A K (2012) Does education mean earning a degree? in: *Expression* (pp. 86-90). Deshkal Publications 81-7276-365-3.
- Rani P L (2011) Setting up a language laboratory: perspectives and practicalities in: *Perspectives on ELT: Select Essays* (pp. 209-215). Prestige Books International 81-7851-093-6.

SUB-DEPARTMENTS AND OTHER LANGUAGES

There are four sub-departments under the Faculty of Economics & Humanities. Furthermore, Hindi and Sanskrit are taught as other languages in various Undergraduate Programmes of study.

SUB-DEPARTMENTS

- Political Science
- History & Indian Culture
- Philosophy
- Telugu Language & Literature

OTHER LANDGUAGES

- Hindi
- Sanskrit



SUB-DEPARTMENT OF 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

Name	Designation	Qualification
Prof. R Gangadhara Sastry	Professor	M.A., M.Phil., Ph.D.
Miss G Rajya Lakshmi	Associate Professor (Hon.)	M.A.

SPECIAL ACHIEVEMENTS

Prof. R Gangadhara Sastry

- Invited as a resource person for the E P W Round Table organized at University of Hyderabad, 25-27 Nov 2011.

SUB-DEPARTMENT OF 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

Name	Designation	Qualification
Sri R Visveswar*	Asst. Professor	M.A., M.Phil.
Ms. M Vijayalakshmi	Asst. Professor	M.A., M.Phil.

*also pursuing Doctoral Research

SUB-DEPARTMENT OF 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

Name	Designation	Qualification
Dr. (Miss) Sharada Subramaniam	Associate Professor	M.A., Ph.D.
Dr. (Miss) M. Venkatalakshmi	Asst. Professor	M.A., Ph.D.

VISITING FACULTY

Name	Designation / Institution	Topic Covered	Duration
Prof. R Balasubramaniam	Sri Aurobindo School of Eastern and Western Thought, Pondicherry University and President, Afro-Asian Philosophy Association	Phenomenology & Existentialism – Husserl, Heidegger & Sartre, The Philosophy of the Upanishads, Indian Philosophy and its relevance to the modern context, and Philosophy of Language	9-10 Sep 2011
Prof. Paneerselvam	Professor and Head, Department of Philosophy, University of Madras, Chennai	Environmental Ethics and Applied ethics with special reference to Environmental Ethics	9-10 Sep 2011

Conference Papers

- Subramaniam S (16-19 Dec 2011) The Problem of Alienation and the Discovery of the Self – with reference to Western and Indian Tradition. *86th Indian Philosophical Congress (IPC)*, Department of Philosophy, Annamalai University, Chidambaram, Tamil Nadu.
- Venkatalakshmi M (15-17 Dec 2011) Vedas and Cosmo-centric Ethics. *International seminar on Vedas: The Source of Science and Culture – A universal approach*.

SUB-DEPARTMENT OF TELUGU LANGUAGE AND LITERATURE

OVERVIEW

The sub-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.

TEACHING FACULTY

Name	Designation	Qualification
Prof. M Veerabhadraiah	Professor (Hon.)	M.A., Ph.D.
Dr. (Ms.) C Padmavathamma	Professor (Hon.)	M.A., Ph.D.
Dr. (Miss) P Vijayalakshmi Pandit	Asst. Professor (Hon.)	M.A., Ph.D.
Dr. (Mrs.) M Praphulla	Asst. Professor	M.A., Ph.D.
Sri K Suryanarayana Murthy	Telugu Pandit (Hon.)	M.A., B.Ed.

SPECIAL ACHIEVEMENTS

Dr. (Ms.) C Padmavathamma

- Delivered talks on All India Radio (AIR) on the topics of *vinadagu mata*, *Pekku bhangulu viveka bhrashta sampathamul*, *Nischitarthambu vadalaru nipunamathulu*, and *Vagbhushanam Sabhushanam*, 10-12 Aug 2011.

Dr. (Mrs.) M Praphulla

- Received the Acharya Divakarla Venkatavadhani Literary Award on the occasion of Acharya Divakarla Venkatavadhani centenary celebrations organized by Acharya Divakarla Venkatavadhani Memorial Trust and Telugu Vikasa Udyamam, Hyderabad, 7 Jan 2012.

OTHER LANGUAGE OF HINDI

OVERVIEW

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

TEACHING FACULTY

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

WORKSHOPS ATTENDED

- Dr. (Miss) Kiron Bala Arora attended a UGC workshop, 'Capacity building of women managers in Higher education', conducted by the 'Centre of Women's Studies and the Centre of Extension studies', S V University, Tirupathi. Also made a presentation with a group of participants on the theme: women sensitised and insensitised atmosphere in workplace, 19-24 Jan 2011.

Articles

- Shrivastava, P K (Apr – Dec 2011) *Manas Sevak Sevyā Bhava evam Dalit Chetana*. Sakalya Hindi Academy Hyderabad, Andhra Pradesh.
- Bala, K A (Jan – Jun 2012) Nagarjun evam unka upanyas, Varun ke Bete in: *Sankalya* (pp. 226-229). Hindi Academy (Hyderabad, Andhra Pradesh).

Conference Papers

- Bala, K A (25 Jan 2012) Sahitya Evam Nari Sasakshikaran. *Empowerment of Women in Contemporary Indian Literature*, Sri Venkateshwara University, Dept. of Hindi, Tirupati.
- Bala, K A (15-16 Oct 2011) Vaishvikaran Ke Pariprekshye Mein Hindi Bhasha Evam Sahitya Ka Bhavishya. *Nayi Sadi Mein Hindi Ka Vaishvik Paridrushya*, University of Lucknow, Uttar Pradesh.

OTHER LANGUAGE OF 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

Name	Designation	Qualification
Dr. C L N Murthy	Professor (Hon.)	M.A., Ph.D.
Dr. N Venkatesha Rao	Associate Professor	M.A., Ph.D.
Dr. (Mrs.) M Praphulla	Asst. Professor	M.A., Ph.D.

SPECIAL ACHIEVEMENTS

Dr. (Mrs.) M Praphulla

- Delivered a talk on Samskritha bhasha parirakshana in the literary meeting conducted by the Dept. of Sanskrit, Sri Sai Baba National Degree College (autonomous), 12 Aug 2011.
- Delivered talks on All India Radio (AIR) on the topics of *Sahasa vidadheetha na kriyam*, *Seelam param bhushanam*, *Sanmithra Lakshanam*, 19-21 Sep 2011.

Articles

- Rao V N (2011) *Aajanma brahmachaari*. Sarvamoola, 2(10), 13-14.
- Rao V N (2011) *Aatma Saakshi Balishta*. Sugunamaala, 26(10), 19-20.
- Rao V N (2011) *Aloukika Adhyatma*. Sugunamaala, 26(7), 20-24.
- Rao V N (2011) *Anyatra dharmaat*. Sarvamoola, 10(4).
- Rao V N (2011) *Anyatra dharmaat – Part-2*. Sarvamoola, 10(5), 30-32.
- Rao V N (2011) *Bhagavadgeeta saara*. Souvenir by Mantralaya Raghavendra swamy matha, 1, 10-12.
- Rao V N (2011) *Brahmacharya*. Sarvamoola, 10(8), 18-19.
- Rao V N (2011) *Chaturmaasa – Bird view of diet and food practice*. Trikaneshvari.
- Rao V N (2011) *Guruvandana*. Kss Charitable Trust, 1(1), 32.
- Rao V N (2011) *Maasamahatme – 1*. Trikaneshvari, 2(11), 13-14.
- Rao V N (2011) *Maasamahatme – 2*. Trikaneshvari, 2(12), 14-15.
- Rao V N (2011) *Mahalaya amavasya*. Trikaneshvari, 2(5), 10-11.
- Rao V N (2011) *Naama smarane – bouddhika hasemane*. Sugunamaala, 26(9), 19-20.
- Rao V N (2011) *Sarve veda yat padam*. Sarvamoola, 10(7), 18-19-28.
- Rao V N (2011) *Tat te padam sangrahena*. Sarvamoola, 10(6), 15-16.
- Rao V N (2011) *Yethadevakshanam brahma*. Suvarna Souvenir, 10(9), 19-20.

Books

- Rao V N (2011) *Narayana Varma*. Hayagreeva Prakashana (Bangalore).
- Rao V N (2011) *Parayana koustubha*. Sri Raghavendra Swamy Mutt (Bangalore).
- Rao V N (2011) *Srinivasa kalyana – Complete Translation of Bhavishottara Purana*. Hayagreeva Prakashana (Bangalore).

integral education



4 INTEGRAL EDUCATION

4 INTEGRAL EDUCATION

“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 education 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



SPIRITUAL & SERVICE ACTIVITIES

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 atmosphere 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, 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 spirit of the system. The students are provided with nutritious vegetarian 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, SSSIHL

P S G 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. The day typically starts with a couple of hours spent in prayer, exercise and other vocational pursuits (such as practice sessions for music, band, traditional Indian instrumental music and the likes). Classes commence at 9.00 a.m.

After college ends at about 3.30 p.m., 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 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 campuses of SSSIHL.

RESIDENTIAL TEACHERS

The Sri Sathya Sai Institute of Higher Learning has a mandatory residential system for all students. All research scholars and select faculty members stay in the hostels along with students and play the role of facilitators and mentors. The teachers, who volunteer to reside in the hostels, shoulder a number of responsibilities specific to the hostel, over and above the regular academic and administrative tasks at the University.

One of the key success factors of the values-based education system as practiced at the Sri Sathya Sai Institute of Higher Learning, is teachers conducting themselves as role-models for the students. It is said, 'Values cannot be taught, and they have to be learnt'. In keeping with this spirit, teachers' resident in the hostels, adhere to the same lifestyle and use the same common facilities as the students in the hostel. Like the students, they too practice community living with typically 4 to 5 teachers sharing a room.

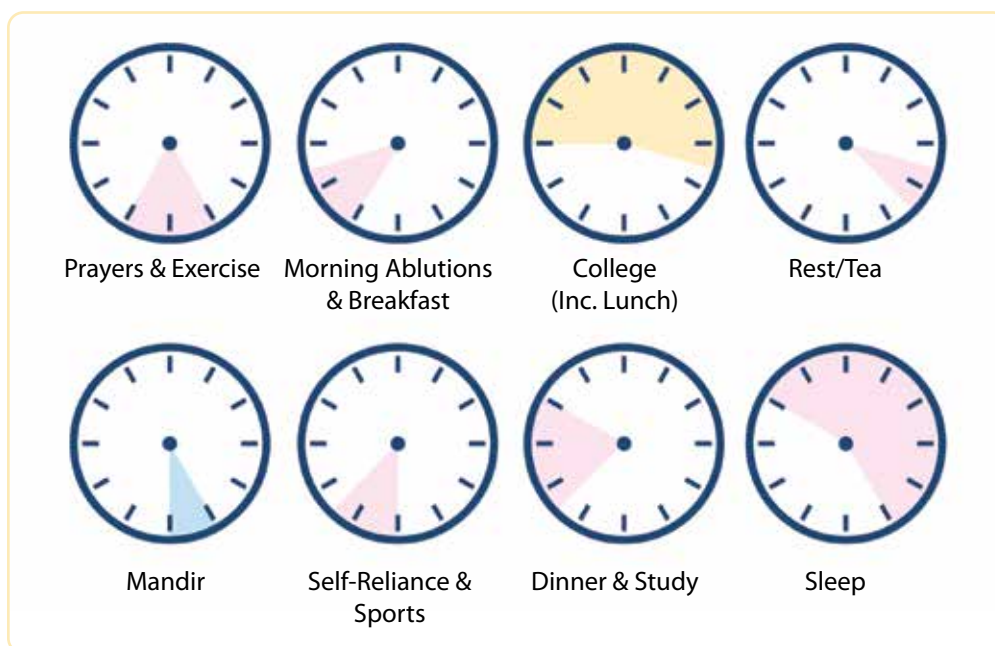
In addition to mentoring students in the hostel, every teacher resident in the hostel is expected to perform three important tasks:

- As a room in-charge, each teacher is responsible for the all-round welfare of the students under his/her care. This ranges from 10 to 14 students per teacher.
- Every teacher is assigned specific duties for maintenance of the hostel routine and upkeep of general discipline in the hostel.
- Every teacher is associated with a specific self-reliance department in the hostel to facilitate the smooth functioning of these departments.

The hostel enshrines a familial atmosphere where students have uninhibited access to teachers, for discussing on matters ranging from spirituality to family issues back home. The teachers are conversant with the background (family, financial, social and academic) of every student under their direct care and are thus parent-substitutes for the students in their 'home away from home'. In essence, the hostel is a place where - 'Each one lives for the other and all live for God.'

The following page lists all the resident teachers at SSSIHL hostels.

Please note that all Doctoral research scholars reside at the Hostel throughout the course of their studies.



DAILY ROUTINE AT SSSIHL

Hostel
 College
 Mandir

LIST OF RESIDENTIAL TEACHERS AT SSSIHL HOSTELS

Prasanthi Nilayam Campus

Dr. G Nageswara Rao	Dr. Shashank Shah
Dr. S Siva Sankara Sai	Sri D Hanumantha Rao Naidu
Sri G Srinivas Srirangarajan	Sri Srikanth Khanna
Sri R Renju	Sri A S Vishwanathan
Dr. Pallav Kumar Baruah	Dr. Krishna Kiran Vamsi Dasu
Sri P Sujith Kumar	Sri Devi Sudheer Kumar C
Dr. N Niranjana	Dr. D Rajesh Babu
Sri N Uday Kiran	Sri Muralikrishna Molli

Anantapur Campus

Ms. Pushpa Ramanna	Ms. M Meera
Dr. (Miss) Kiron Bala Arora	Miss Divya Goyal
Dr. (Miss) Sharada Subramaniam	Dr. (Ms.) Seethalakshmi Laxmanan
Dr. (Miss) T R Rajeswari	Miss Dibba Bhargavi
Dr. (Miss) P L Rani	Miss Maitali Verma
Dr. (Mrs.) Sahida Sharma	Miss Purva Narang
Dr. (Miss) M. Venkatalakshmi	Miss Sharanya Balasubramanian

Brindavan Campus

Dr. K S Narahari	Dr. C N Sundaresan
Sri K P Gopinath	Dr. K S Umesh
Sri Rajkumar Jain	Dr. T Ravikumar
Sri M G Nandagopal	Sri S Sathya Narayanan
Sri Ruchir Desai	Sri K K Sai Anand
Sri R Subramanian	Sri Darshan Gera
Sri Sanjay Sahni	Sri Denny Melkay M George

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, SSSIHL

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, Dietary Services)
- **Entertainment** (Multimedia and Audio-visuals for in-house entertainment, Sound engineering and Recording)
- **Support Services** (General Stores, Transport services)
- **Culinary** (Catering Services, 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; whereby senior students train juniors before graduating.

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 not just by the students and teaching faculty, but also the administrators, including the Vice-Chancellor. Prayers before meals and retiring at night are also offered everyday.

One of the most important features of the morning community prayer meeting is 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 spirituality, morals and values. Similarly all tests and examinations – formal and informal, monthly and end-semester, also start with prayers.

Thursday Moral Classes

At 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 elevating 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.

Audio extracts from the Revered Founder Chancellor's discourses (where He would typically address 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) are regularly played during these sessions.

For a complete list of the activities in Moral Classes across the campuses during the academic year 2011/12, kindly refer to **Appendix 1**.

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 contribution of all cultures. It helps reveal the unity of all great world religions and provides an understanding of their underlying spirituality. It elicits a yearning in students 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.

At the Undergraduate level, the programme covers philosophy of education, unity of religions and faiths, ethos and values and their relevance in the current milieu, life and its quest, and the study of Indian classics such as Ramayana and Bhagavatam. At

the Postgraduate level, the focus is on introducing students to practical aspects of spirituality, enabling them to apply the spiritual principles from ancient scriptures for dealing with problems of modern society.

Summer Course in 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

The Summer Course in Indian Culture & Spirituality is an initiative started by Bhagawan Sri Sathya Sai Baba in the early 1970s with an objective to expose students of the University to the rich cultural and spiritual heritage of Bharath. It orients the newly 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 theme 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, at the beginning of every academic year.

Grama Seva

Manava Seva is Madhava Seva (Service to man is service to God)

Bhagawan Sri Sathya Sai Baba

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 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 (September / October) in the Summer semester, when faculty and students of the university visit the nearby villages and lovingly distribute food and clothes at the doorstep of every village member.

Objectives

- To sensitise students to societal problems and needs of the lesser privileged
- To expose students to rural Indian life
- To help students appreciate the joy associated with serving the poor and needy
- To 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 prayer
- Feeling of brotherhood and solidarity expressed by 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 realities of rural India and in inspiring them to take up such service projects in the future. Grama Seva is also an exercise in management that gives the students hands-on experience in managing mega projects within stringent timelines.

Grama Seva 2011

Grama Seva took place between 27 September and 6 October 2011. Students and teachers of the University served a population of 2,87,780 people in over 150 villages over the ten day period. This included the distribution of 46,090 sarees and 43,550 dhotis and almost 3 Lakh food packets and ladoos.

No. of People Served	2,87,780
Villages Covered	153
Students	1208
Teachers	146



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

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 of SSSIHL, students participate in a host of sports and cultural activities. Examples of these include:

- Music, dance, drama, quiz, panel discussion and elocution
- Competitions in Veda chanting, stotra recitations and teachings of the Bhagavad Gita
- Painting, sketching/drawing, card-making, bookmark-making, preparation of useful articles out of waste

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 spirituality to metaphysic. This provides a platform to develop their public speaking skills and refine their thought process.

The sports and cultural activities at the University culminate at the Annual Sports and Cultural Meet, on 11 January every year, marked by a grand and courageous display of cultural and athletic 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 Divine Presence.



Annual Sports & Cultural Meet 2012 - A Report

The Annual Sports and Cultural Meet 2012 of Sri Sathya Sai educational institutions was held on 11 January 2012. The venue of the Sports Meet was Sri Sathya Sai Hill View Stadium, which was beautifully decorated for the important event. While giant size photos of Bhagawan along with His important messages and flags of various countries adorned the periphery of the stadium, there was elaborate decoration of fresh flowers on the Shanti Vedika where an elegant chair was placed for Swami. A Large size LED screen was also installed in the stadium to enable the spectators to watch the proceedings with convenience. The sprawling stadium started reverberating with Vedic chants at about 7.45 a.m. on the morning of 11 January 2012. As Bhagawan's open car with a beautiful photograph of Bhagawan led by a squad of motorbike riders reached the northern end of the stadium at 8.00 a.m., the brass band of Anantapur campus of the Institute played welcome notes. The procession then moved towards Shanti Vedika led by the brass band of Prasanthi Nilayam Campus and a slow marching squad carrying flags. The flag bearing squad made a canopy of flags as Bhagawan's car reached in front of Shanti Vedika. Before the start of the programme, the Vice-Chancellor and other senior officers of the Institute came to the chair of Bhagawan at Shanti Vedika and offered their salutations to Him while a group of students carrying Poornakumbham chanted Vedic hymns.

Grand March Past

The programme began at 8.15 a.m. with a grand March Past by the contingents of students from all Sri Sathya Sai educational institutions. As the colourfully dressed squads marched towards Shanti Vedika, the brass bands of Prasanthi Nilayam and Anantapur Campuses provided the marching tunes. On reaching Shanti Vedika, they offered their salute to Bhagawan. At the conclusion of the March Past, the Institute flag was ceremoniously hoisted; the customary oath was administered

to the participants in the sports and cultural events and the sports torch was lit and carried by a mascot in the form of a Nandi (Siva's bull) to the top of the hill where the sports urn was lighted. Meanwhile, white pigeons and bunches of balloons were released from Shanti Vedika.

Prasanthi Nilayam Campus

The Sports events commenced with a spectacular display by the students of Prasanthi Nilayam and Sri Sathya Sai Higher Secondary School. At the outset, they brought in the performing area, a beautiful giant structure containing a replica of the Institute emblem with two swans, one on either side. Meanwhile, there was a display of acrobatics of remote-controlled planes in the sky that were controlled on the ground by the students. The first sports item of the Prasanthi Nilayam students was an exhibit of yogasanas that displayed their dexterity and agility. This was followed by a dance with yellow and green flags by a group of students to the tune of Chinese drums. Display of martial arts with Nunchakus followed this, which showcased their courage and confidence in handling this traditional weapon with deftness. Bhangra dance was another item that delighted one and all. Thereafter, the students performed wonderful feats of Karate and displayed great skill in handling sticks in self-defence. Their last item was motorbike stunts. They criss-crossed each other at high speed, drove bikes while standing on them, playing guitar and climbing a ladder. However, it was their ramp jumps that exhibited their audacity, particularly the ones through a ring of fire and sheet of glass. At the conclusion of their sports events, the students assembled before Shanti Vedika and offered their salutations to Bhagawan.

Anantapur Campus

This was followed by a presentation by the students of the Anantapur Campus of the Institute. Their first item was a Dervish dance of Turkey in traditional dress of Dervishes donning a



large white gown and supporting a big cap on head. This was followed by an Egyptian Sufi dance. After these dances, the students made a display of aerobics. Next, they displayed their skill and balance on roller skates, making beautiful formations. Their last item was a rhythmic dance with colourful rings in their hands that formed beautiful patterns as they made synchronised movements. At the end of this excellent display, they made their final formation in front of Shanti Vedika and offered their reverential Pranams to Bhagawan.

The morning programme concluded with Arati at 10.15 a.m.

The afternoon programme of Sports and Cultural Meet started at 4.00 p.m. after the arrival of Bhagawan's car at the Hill View Stadium escorted by a squad of motorbike riders. The students of Sri Sathya Sai Primary School, Prasanthi Nilayam were the first to make their presentation. The theme of their presentation "Sai is Everywhere, Now and Forever," was displayed on a giant hoarding which they placed in the performing area. This was followed by a presentation by the students of Smt. Easwaramma English Medium School and a short presentation by the students of College of Nursing and Allied Health Sciences, Sri Sathya Sai Institute of Higher Medical Sciences, Whitefield, Bangalore.

Brindavan Campus

The students of the Brindavan Campus of the Institute made the final presentation of the Sports and Cultural Meet. They began their presentation with a display of yoga postures with prayers to the sun God and followed it up with games of volleyball, football and basketball. Though they showed great skill and dexterity in all the games, their basketball performance stood out as they made the ball dance on their fingers and dunked it in the basket after getting elevation from a ramp. Synchronised movement of wheels by gymnasts was their next item that displayed their perfect balance and great maneuvering skills.

A game of cricket and formations with LED lights on the chests of students were displayed next. Their final item was a display of a fire drill, which was an outstanding show. Holding blazing torches in their hands, the students made many formations which included *Swastik*, *Sudarshan Chakra*, *We Love You* and *Sai Ram*.

The programme concluded at 6.40 p.m. and this marked the conclusion of the sports events of the Annual Sports and Cultural Meet 2012 of Sri Sathya Sai educational institutions.

Valedictory Function

The valedictory function of the Annual Sports and Cultural Meet 2012 of Sri Sathya Sai educational institutions was held on the auspicious day of Makara Sankranti, 15 January 2012. The morning programme began at 9.00 a.m. with a grand procession which marched from Bhagawan's abode to Sai Kulwant Hall, where a special dais was set up and a beautiful chair was placed for the Divine Founder Chancellor of the Institute, Bhagawan Sri Sathya Sai Baba. The procession was led by the brass band of the Prasanthi Nilayam Campus and followed by the flag bearing squad and Veda chanting group of students.

After the arrival of the procession in Sai Kulwant Hall, five speakers addressed the gathering. Introducing the speakers, Sri Sanjay Sahni, Director, Brindavan Campus of the Institute remarked that Sankranti signified not only the beginning of the northward journey of the sun but also the journey of man towards divinity. The first speaker of the programme was Dr. Naren Ramji, Registrar of the Institute. Referring to the recently concluded Sports and Cultural Meet, Dr. Ramji observed that the excellent performance of the students in all the events clearly showed the Divine Presence of Bhagawan. He expressed gratitude to Bhagawan for making sports an important part of Sri Sathya Sai System of Integral Education.



This was followed by short speeches by students of the University and Sri Sathya Sai Higher Secondary School. They narrated interesting anecdotes and revealed how Bhagawan's energy worked through them to give the best performance in the sports events. After these speeches, the Vice-Chancellor of the Institute gave away trophies to the educational institutions and prizes to individual champions of the sports and cultural events. The students representing the educational institutions and champions of individual events came one by one, offered their salutations to Bhagawan, and received the trophies and prizes from the Vice-Chancellor. This was followed by video excerpts from Bhagawan's Divine Discourse that kept the entire gathering in rapt attention. In His Discourse, Bhagawan said that the mind of man was very powerful and it was the cause of his bondage as well as liberation. He exhorted the students to control the mind, imbibe virtues and develop character. Bhagawan concluded His Discourse with the Bhajan, "Hari Bhajan Bina Sukha Shanti Nahin," which the entire gathering in the hall followed in chorus.

After the Discourse of Bhagawan, the brass band of the Anantapur Campus played a couple of tunes. The morning programme came to a close with bhajans and Arati at 10.45 a.m. after distribution of Prasadam.

Cultural & Music Programmes

My Life is My Message: A Shadow Play

As part of the Annual Sports and Cultural Meet 2012 of Sri Sathya Sai educational institutions, the students of Brindavan Campus of Sri Sathya Sai Institute of Higher Learning performed an enchanting shadow play entitled "My Life is My Message" in Sai Kulwant Hall on the evening of 12 January 2012. A giant screen was set up in the performing area of the hall on which were depicted various scenes from Bhagawan's life as enacted

by the students behind the screen.

The play started at 6.00 p.m. with a dance of Siva and scenes of creation of the universe. The students then made a formation showing Divine Mother Easwaramma drawing water from the village well when a ball of light from heaven entered her womb. Thereafter, the students made many wonderful formations depicting various incidents from the life of Bhagawan which included Bhagawan making the letters Sai Baba in Telugu with jasmine flowers, Bhagawan showing His Form in place of Linga in Virupaksha temple in Hampi, throwing away His school bag and singing the first Bhajan, "Manasa Bhajare Guru Charanam," Sarva Dharma (all faith) Stupa, symbols of all faith and scene of crucifixion of Jesus, Super Speciality Hospital, water project, Narayana Seva, Administrative building of Sri Sathya Sai Institute of Higher Learning, Grama Seva and finally Bhagawan giving a Discourse in Sai Kulwant Hall and concluding it with the Bhajan, "Hari Bhajan Bina Sukha Shanti Nahin." Excellent commentary that described each scene added great value to the play. This was followed by a screening of a video clipping that showed Bhagawan blessing devotees in the hall.

The play was followed by Bhajans that concluded with the Bhajan, "Govinda Gopala Prabhu Giridhari" in Bhagawan's golden voice. Meanwhile, Prasadam was distributed to all. The programme came to a close with Arati at about 7.00 p.m.

God is Good, Hold on to Him: A Drama

The students of Sri Sathya Sai Higher Secondary School, Prasanthi Nilayam performed this drama on 13 January 2012. Beginning the drama with a prayer song at 5.30 p.m., the students depicted through the story of a young man named Viswas, how man sometimes loses faith in God when he is confronted with insurmountable problems in life and starts questioning even God. He forgets that God always protects His devotees who repose faith in Him and hold on to Him. He never forsakes them. Various episodes from the scriptures showcasing



how Krishna helped Sudama, Shirdi Sai Baba saved Shama, Rama and Lakshmana came to the rescue of Bhadrachalam Ramdas and Rama saved Sita from the clutches of Ravana illustrated this truth. Viswas's faith in God was ultimately restored when Bhagawan Sri Sathya Sai Baba responded to his prayers and saved the life of his father. Beautiful songs, good dances, excellent acting of the students and fabulous sets made the drama a superb presentation. The drama was followed by Bhajans and distribution of Prasadam. The evening concluded with Arati at 6.40 p.m.

Musical Presentations

Two music programmes were presented on 14 January 2012 as part of the Annual Sports and Cultural Meet 2012 of Sri Sathya Sai Institute of Higher Learning. The first programme entitled "Thyagaraja Aradhana" was a vocal music presentation made by the students of Sathya Sai Mirpuri College of Music, Prasanthi Nilayam. A portrait of the legendary composer Thyagaraja and a beautiful idol of Lord Rama, the deity he worshipped, appropriately formed the backdrop of the presentation which began at 4.45 p.m. with "Sri Ganapati Nee Sevimpa," a prayer to Lord Ganesh. The students followed it up with Pancharatna Kritis (five great musical compositions of Thyagaraja) which included "Jagadanandakaraka" (bestower of joy to the world), "Sadachine O Manasa" (Oh mind! He has achieved his objective). Thereafter, they sang a Hindustani number "Jagat Prabhu Ramachandra" (Rama, the Lord of the universe), followed by "Jaya Mangalam, Nitya Subha Mangalam" (May there ever be auspicious prosperity). The entire presentation was marked by perfection of Raga and Tala (tune and beat) and kept the audience spellbound for nearly one hour.

The second programme was presented by the students of Anantapur Campus of the Institute who set up a temple of exquisite beauty as the backdrop of their presentation. The brass band group together with the Naadaswaram group of

students made a thrilling fusion music presentation comprising Stotras (verses), a Carnatic music composition, a couple of devotional songs and a western music composition. Starting with the Stotras "Vakratunda", a prayer to Lord Ganesh and "Santhakaram", a prayer to Lord Vishnu, the students followed it up with a Carnatic music presentation "Raghuvamsa Sudha" and a western music composition "Heal the World." They concluded with two devotional songs "Jai Ho Sai Ram" and "Humko Tumse Pyar Kitna". In the end, groups of students came with traditional lamps in hand to worship Bhagawan while the music played "Asato Ma Sadgamaya" (lead me from darkness to light). After this excellent instrumental music presentation, the students of Anantapur Campus sang bhajans from a new audio CD that was released. The programme came to close with Arati at 6.45 p.m. after distribution of Prasadam.

Gautam Buddha: A Drama

The illustrious life of Gautam Buddha was portrayed in this drama enacted by the students of the Prasanthi Nilayam Campus of the Institute on 15 January 2012. Starting their presentation at 5.20 p.m., the students enacted the main incidents of Buddha's life from his birth as son of King Suddhodana; his encounter with reality of life on seeing a rich man, an old man and a dead body; the transformation of Angulimal; his victory over Mara and his intense penance to know the truth which led him to enlightenment and attain the state of Buddha (the enlightened one). Good acting and dances, meaningful commentary and efficient stage management made the drama a successful presentation. This was followed by bhajans that concluded with the bhajan, "Rama Kodanda Rama" in Bhagawan's divine voice. Arati was offered at 7.00 p.m., marking the conclusion of the Sports and Cultural Meet 2012.



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.”*

Hence, at SSSIHL, the celebration of festivals from all major religions every year helps build a unique awareness in the mind and heart of each Sai student. It is a significant part of the Integral education model, and all students play a role at festivals throughout the year.

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, boarding and lodging arrangements for visitors, food outlets and canteens, and a host of other services.

Students from all campuses gather at Prasanthi Nilayam on all important festival occasions such as Guru Poornima, Navaratri, New Year, Shivaratri, University Convocation and the Annual Sports and Cultural Meet. These festivals are celebrated in their true traditional fervour. Students also get an opportunity to listen to excerpts of the Revered Founder Chancellor's

addresses at various festivals (explaining the spirit and the inner significance of these rituals and ceremonies).

Every student is involved in one way or another during these festivals. A few examples are given below.

Brass Bands

The story of the University brass bands is one 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 of the most versatile and complete brass bands. It has instruments such as the Sousaphone, the French Horn, the Baritone Sax, and other percussion and wind instruments. 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.

MAJOR CELEBRATIONS AT SSSIHL

New Year's Programme	Easwaramma Day	Diwali
Annual Sports & Cultural Meet	Eid-al-Fitr	Global Akhanda Bhajans
Republic Day	Independence Day Drama	Convocation Drama
Mahashivaratri	Makarasankranti Day Drama	Bhagawan Baba's Birthday
Drama and Valedictory Function of Sports & Cultural Festival	Dance Drama Presentations and Music Performances	Investiture Ceremony
Guru Poornima	Gratitude Programs by graduating students	Farewell Programme for graduating students
Sri Krishna Janmashtami	Ganesha Chaturthi & Immersion	Burrakatha Performances
Onam	Dasara Celebrations	Welcome Programme for Freshers
Sri Ram Navami	Ugadi	Christmas

Nadaswaram & Panchavadyam

On festival occasions, following months of practice, students of the Nadaswaram and Panchavadyam groups often put up stirring performances. These programs are a representation of the skills, adaptability and dedication of the students towards all Integral Education activities during the academic year.

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.

OTHER ACTIVITIES

Annual Faculty workshop

In line with the commitment to further the process of Integral Education at SSSIHL, a workshop on Integral Education is conducted on an annual basis in the end of May every year. It brings together faculty members and research scholars across all the SSSIHL campuses. They are 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 is to provide a forum to build camaraderie and to stimulate discussion, new insights and experience sharing. The key administrative officers of the University are also part of this workshop.

Each workshop forms a part of a series of meetings, with a long term view of deliberation on the problems, solutions and new ideas, which the faculty and scholars come together to discuss. The objectives of the workshop are to deliberate on the domains of the Integral System of education of the University, its components, its critical success factors, the role of teachers and the like.

Over and above the tangible aspects, a lot of time during these workshops is spent discussing the fact that the critical success of this model of education depends largely on the intangible aspects. These include factors such as:

- Clarity of the university's vision and mission
- Focus on the Revered Founder Chancellor's principles and messages
- Alignment to His expectations
- Unity among staff and faculty
- Striving for excellence in their roles
- Harmony between thought, word and deed

These workshops involving the University faculty and administrators are conducted annually as per the wishes of the Revered Founder Chancellor, Bhagawan Sri Sathya Sai Baba, who set an example for everyone to follow.

The workshop, typically held over two days, covers the various dimensions of the University (Spiritual, Discipline, Behaviour, Physical, Cultural and Service), and discusses the innovative models for integral items. Feedback from individuals during breakout sessions is duly noted and the workshop concludes with a series of actionable items for the future.

During the course of the academic year, the deliberations continue via meetings, both formal and informal, to ensure that the outcomes from the workshop are put into practice.



Research & Teaching Awards

The "Sai Krishna Award" for Research & Teaching has been instituted to honour the top researchers and teachers of SSSIHL each year. The awards will alternate between top researchers and top teachers every year.

In its inaugural year, 2011, the awards recognized and felicitated the Institute's top researchers for their active research work and research accomplishments. The Awards ceremony was held in Sai Kulwant Hall on 21 November 2011.

Bhagawan Baba was quite critical of the type of research that was being carried out in the country at large, which He observed was purely academic, superficial and carried out merely for obtaining a Ph.D. degree. He stressed that the faculty and research scholars of this Institute must undertake research centred on the problems of the local community and the society at large, and come up with viable solutions. Keeping in line with His Vision, research at the Institute has always been taken up with a focus on its social relevance.

Over the past three decades, the research and teaching faculty at the University has come a long way. Doctoral Research Scholars at the university constitute 5% of the student population, which is seven times the national average of 0.7% (UGC Report 2011).

The Sai Krishna Award consists of a certificate, a memento and a cash award of Rs. 25,000. The winners are selected based on evaluation of the research work of the applicants by a panel of external experts.

The awards are in three categories of Research. The winners for Academic year 2011/12 are listed below.

Best All-Round Student Awards

The Sri Sathya Sai Philosophy of Integral Education stresses on the all-round development of students. Conventional educational institutions, which predominantly focus on secular education, promote intellectual development of students while often ignoring the development of other facets of a student's personality. The Revered Founder Chancellor, Bhagawan Sri Sathya Sai Baba, emphasizes the need for developing a wholesome personality with growth in the physical, mental, intellectual, emotional, psychological and spiritual domains of one's personality.

The values-based integral education at the Sri Sathya Sai Institute of Higher Learning, expects students to achieve a minimum level of performance in all the dimensions of Integral education - academic, service, behavioural, discipline, physical fitness, spiritual, and cultural. In order to encourage students who perform exceptionally and uniformly in all these dimensions of Integral education, a Best All Round Student Award has been instituted. The Best All-Round Student award has a two-fold purpose:

- To recognize and acknowledge the outstanding performance of students, and
- To inspire the rest of the student community to emulate them

This recognition is awarded to one student from every campus of the university.

The robust and comprehensive process of identifying the potential winner begins with the shortlisting of candidates who have scored an 'O' (outstanding) grade in all semesters of their academic programme. Every faculty member of the campus then nominates three candidates in the order of

WINNERS OF THE SAI KRISHNA AWARD FOR RESEARCH & TEACHING, 2011/12

Research Area	Name	Designation
Sciences	Prof. K Venkataramaniam (M.Sc., Ph.D.)	Professor (Hon.), Dept. of Physics, SSSIHL
Management, Commerce, Economics and Education	Dr. N Siva Kumar (M.B.A., Ph.D.)	Asst. Professor, Dept. of Commerce, SSSIHL
Language & Philosophy	Dr. N Venkatesha Rao (M.A., Ph.D.)	Associate Professor in Sanskrit, SSSIHL

priority. A weighted score for all these candidates is computed and presented to a committee comprising of the Director of campus; Heads of departments; warden; residential teachers at the hostel and the sports, cultural and social-activity coordinators. The committee members come up with the name of the final winner following a rigorous scrutiny of these students on all aspects of integral education using customized surveys and the scores obtained by these students in integral items.

Listed below are the recipients of the Best All-round Student awards for outstanding performance in all dimensions of the Sri Sathya Sai System of Integral Education during the academic year 2011-12.

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

The annual convocation, held every year on 22 November, forms an integral part of the Academic Calendar for all stakeholders of SSSIHL. The sentiments of this special day are aptly reflected in the oath that the students take on the Convocation ceremony, in the Divine presence of the Revered Founder Chancellor.

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, addresses by the Vice-Chancellor and the Chief Guest, and the Benedictory Message by the Revered Founder Chancellor. The programme includes a play staged by students, focusing on the unique lessons learnt by them at the University. These plays are guided by the Revered Founder Chancellor, and the students' love for Him motivates them to give their best performances.

"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."

Bhagawan Sri Sathya Sai Baba

30th Annual Convocation

The 30th Convocation of Sri Sathya Sai Institute of Higher Learning (Deemed to be University) was held at the Sai Kulwant Hall in Prasanthi Nilayam, in the Divine Presence, on 22 November 2011. Bhagawan Sri Sathya Sai Baba inaugurated the Institute on this day, thirty years ago, in 1981.

BEST ALL-ROUND STUDENTS AT SSSIHL, 2011/12

Campus	Name	Course
Prasanthi Nilayam	Sri Iyer Kalyanasundaram N	II MBA (Finance)
Anantapur	Kum. Saru Trikha	III B.Com. (Hons.)
Brindavan	Sri Saurabh Kumar	III B.Com. (Hons.)

Annual Convocation Drama

The convocation drama is a highly anticipated event at Prasanthi Nilayam. It is a conduit through which the University students enact the practical lessons that the Founder Chancellor has enunciated for humanity at large.

This year, the drama was entitled *Guru Mahima* and was staged on the day before the Annual convocation, on 21 November 2011. The story revolved around a music *acharya* (teacher) and his students at an ashram, interspersed with scenes from the Ramayana and a scene between King Akbar and Tansen, his court singer. With music and drama, the students brought home the significance of the spiritual relationship that exists between a Master and his disciples. They portrayed the loving bond that persists between them even in the absence of the master's physical presence, and how His teachings and influence always works through them.

The Convocation Ceremony

There are two unique aspects of the convocation at SSSIHL. First, the ceremonial oath serves as a fitting reminder for all students to re-dedicate themselves to the vision of Bhagawan Baba, the Revered Founder Chancellor, and to practice His teaching in their daily lives. Second, is the benedictory address by the Revered Founder Chancellor, which serves as their guiding advice before they go out into the world.

The Chief Guest at the 30th Convocation was Prof. P Balaram, Director, Indian Institute of Science, Bangalore. He, along with the Vice-chancellor, and other dignitaries including former Vice-chancellors, Members of the Board of Trustees, Board of Management and the Academic Council, entered the venue in a procession that was led by the brass band of the Institute. Following convention, the procession was headed by two

students carrying the Institute's Standards on either side of the Registrar, who carried the Ceremonial Mace.

The function began with Veda chanting after which the formal proceedings began with the voice of the Revered Founder Chancellor, Bhagawan Baba, declaring the convocation open to rapturous applause from the audience.

Vice-Chancellor's Introductory Speech

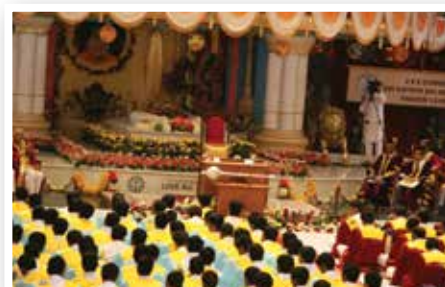
The Vice-Chancellor reiterated the Institute's resolve to work towards fulfilling Bhagawan's mission by following His ideals. He outlined the progress made by the Institute during the last year and spoke about the new initiatives undertaken by it. This included the setting up of an advanced research facility in the near future. The Vice-Chancellor then introduced the Chief Guest, Prof. P Balaram, Director, Indian Institute of Science, Bangalore.

Graduands receive their degrees and Award of Gold Medals

The Controller of Examinations of the Institute, presented the graduands to the Revered Founder Chancellor for award of degrees. Following this, the customary oath was administered to the students by the Vice-Chancellor. Gold medals were thereafter awarded to the meritorious students for their excellence in academic performance. The recipients of gold medals came one by one, sought the blessings of the Revered Founder Chancellor, and received the gold medal from the Vice-Chancellor.

Chief Guest's Convocation Address

In his Convocation Address, the Chief Guest, Prof. P Balaram hailed the Institute as a unique one that evolved over three



decades under Bhagawan Sri Sathya Sai Baba's able guidance with discipline as its hallmark. He stressed the importance of research and suggested that to confront the major scientific and technological challenges facing us in today's world, the boundaries between the different academic disciplines need to be blurred and seamlessly integrated. Elucidating on the subject on how to become successful, the learned speaker stressed on the need to work hard, irrespective of failures. Failure is a common phenomenon that one should treat with equanimity, he said, and overcome with discipline, hard work, commitment and imagination. He gave the example of the rags-to-riches story of author J. K. Rowling of the 'Harry Potter' fame, and concluded by wishing the graduating students all success.

Revered Founder Chancellor's Benedictory Address

This was followed by the benediction of the Revered Founder Chancellor (beamed on video screens) on the importance of combining secular education with spiritual knowledge; of being patriotic and serving one's motherland; and of facing life's challenges with courage. Reiterating the importance of the principles "Adhyatma Vidya Vidyanam" (spiritual education is the true education) and "Sa Vidya Ya Vimuktaye" (true education is that which liberates) propounded in sacred texts, Bhagawan emphasised that true education is spiritual education which enables students to realise their divinity. Referring to the principles of Indian culture, Bhagawan advised students to follow principles such as "Matru Devo Bhava, Pitru Devo Bhava, Acharya Devo Bhava, Atithi Devo Bhava" (revere your mother, father, preceptor and guest as God). There was nothing great in acquiring a degree, said Bhagawan, and added that what was important was service to the mother and motherland. In conclusion, Bhagawan remarked that students were His property and they would make Him happy if they served their parents.

The programme ended with the singing of the National

Anthem, followed by Mangala arati and the retreat of the Band and procession back to Yajur Mandir.

For the complete text of the Vice-Chancellor's and the Chief Guest's convocation addresses, excerpts from the Revered Founder Chancellor's benedictory address and the full list of all the Gold Medallists for the academic year 2011/12, kindly refer to **Appendix 2**.

Visit of the Indonesian Delegation to SSSIHL - Dec 2011

Background

In September 2010, a peer team from the NAAC (National assessment and Accreditation Council of India) visited the Sri Sathya Sai Institute of Higher Learning for assessment and re-accreditation. The NAAC team were accompanied by couple of observers from the Indonesian Govt to oversee the procedure and methodology of the accreditation process. During their brief day stay here, the two observers were extremely impressed by the unique aspects of education imparted here at the SSSIHL. Soon after their return, they got in touch with the Institute of Sathya Sai Education in Indonesia to know more.

In month of November 2011, SSSIHL received letter of from the Directorate of Islamic Higher Education, Indonesia, expressing their desire to send a team of teachers to study the process by which value education was imparted at the Sri Sathya Sai Institute of higher Learning. They were proposing to visit two universities in India – the Bombay university and the Sri Sathya Sai Institute of Higher Learning. They spent five days in Mumbai and about 3 weeks at the Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam.



About the Participants

Ten teachers (eight male and two females) representing different faculties (such as English, Law, Politics, education etc) from 5 different universities (Public as well as private) were part of the visiting team. They were all Muslims and the universities they were representing impart Islamic education. These universities come under the Ministry of Religious Affairs, Govt of Indonesia. The Govt. of Indonesia selected about 100 teachers from various Islamic universities to travel to different parts of world to study various aspects of University education. Two other teams were similarly touring Egypt and Australia. These teachers were selected based on their track record and their potential as future administrators of these universities.

Visit to SSSIHL

During their 20 day stay here, they were exposed to the various elements of the Sathya Sai System of Integral System Education which combines the best of both – Ancient Wisdom and Modern Methodology catering to all the facets of the human personality – Physical, Mental and Spiritual. The administrators of SSSIHL (Registrar and Controller of Examinations) made the opening presentation which gave them a broad perspective, evolution and current standing of the SSSIHL.

They were immediately able to identify the pivotal importance that the Revered Founder Chancellor, our beloved Bhagawan Sri Sathya Sai Baba has had on developing of this unique system of education and soon they wanted to know more about Him. On the second day they were shown video documentaries about Bhagawan and the innumerable projects that He has undertaken for the benefit of mankind and also the work which is being done in His name all across the world. This formed the foundation for their understanding of what they were going to experience during their visit.

They spent time, over three weeks, at the Prasanthi Nilayam campus where they interacted with the Directors, Heads of departments, faculty members, visiting faculty, research scholars and students.

In brief, they were acquainted with the unique features of the Institute. They attended the Thursday moral classes and the awareness class. They were shown videos about the Grama Seva program and Sports meet. They were invited to the Hostel where the senior hostel teachers showed them the Self-reliance departments and dormitory style of living. They were

exposed to the important role teachers play by living in the hostel with students.

They also attended the Vedam and Bhajan sessions in Sai Kulwanth Hall. They also visited the Brindavan campus (Whitefield) and the Anantpur campus (Anantpur) for two days respectively. Several questions about the philosophy, methodology and impact of this system of education were addressed in various forums and interactions during their visit.

They also interacted with the Alumni of our university in Bangalore to get a first hand knowledge about the impact of this values based education on the daily lives of the alumni. The Director General of Islamic Education, who was to visit Bangalore to be briefed prior to their departure to Indonesia drove down to Puttaparthi to gain first hand knowledge about SSSIHL. Prof. Muhammed Ali, the head of Islamic Education in Indonesia under the Ministry of Religious Affairs was briefed by the visiting team members about their experience at SSSIHL.

Some excerpts from the report entitled “Lessons Learnt in Sri Sathya Sai Institute of Higher Learning” that they submitted to the administration are reproduced hereunder.

Seeing is Believing

This proverb may best illustrate our sojourn at SSSIHL. If we do not see it ourselves, we would find it hard to believe anybody telling us the story about a university which takes no fee from students, yet excels in education...Our short study of SSSIHL has been a rewarding one...

LESSON ONE: SPIRITUALITY

Religion that should function as a path to God has been turned to be used as a tool of oppression and legitimization of social, political, and cultural domination of narrow and short-sighted mundane interest. It is in this context that we can understand the tremendous significance of SSSIHL. By promoting the unity of religions, SSSIHL serves as a melting pot of divergent beliefs, cultures and races. During our sojourn, we witnessed harmonious interaction between the people; they may have been of different beliefs and religions, but they respect each other and accept the difference.

LESSON TWO: CHARACTER BUILDING

Compared to other systems of education, that of SSSIHL is

uniquely designed to foster the physical, intellectual and spiritual wellbeing of the students.

LESSON THREE: ROLE MODELLING

...It is exactly this very concept of role modelling that has been practiced in SSSIHL since the early stage of its inception. “To be, to do, to tell” is one of many phrases that encapsulate the approach to synchronize an utterance and deed.

LESSON FOUR: MODESTY COUPLED WITH INTELLIGENCE

Simplicity becomes the life style. All faculty members dress up modestly in white uniform. The students in the hostel also live a simple life; sharing the room, and sitting on the floor during meal time. However, when it comes to education, SSSIHL accepts no compromise in the quality; it provides the cutting-edge multimedia facilities, ultra modern laboratory equipment, international-standard sport centre along with highly reputed faculty.

LESSON FIVE: COMPASSION

It is God’s grace that SSSIHL has been working hard to set an example for the people to do service to society at large.

All his life, Sai Baba showed others by his graceful action that people from all walks of life need compassion, and only by compassion the man will live the life in dignity. The legacy of Sai Baba’s compassion can be seen in many aspects of life in Puttaparthi. During our short visit, we can feel the ambience of compassion that emanates from our surroundings. In the hostel, around the campus, inside the ashram, and in the hotel vicinity, we find people of peaceful mind and loving thought.



univ. structure



5 UNIVERSITY STRUCTURE

5 UNIVERSITY STRUCTURE

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

During the current academic year, the meeting of the Board of Trustees took place on 21 November 2011.



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 principal bodies and committees, as well as its main officers – both administrative and academic, and include a brief overview of their roles.

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

1. The Board of Management
2. The Academic Council

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.

The Board of Management for the academic year 2011/12 consisted of:

Prof. J Shashidhara Prasad	Vice-Chancellor, SSSIHL	Chairperson
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	Central Govt. Nominee
Dr. (Miss) P Selvie Das	Former Member of Parliament, Rajya Sabha	Member
Prof. C R Visveswara Rao	Former Vice-Chancellor, Vikram Simhapuri University, Nellore	Member
Prof. A Sudhir Bhaskar	Dean, Faculty of Management and Commerce, and Director, Prasanthi Nilayam Campus, SSSIHL	Member
Prof. Shiv R Pandit	Head, Dept. of Management Studies, SSSIHL	Member
Prof. R Kumar Bhaskar	Professor (Hon.), Dept. of Management Studies, SSSIHL	Member
Prof. S Krupanidhi	Dean, Faculty of Sciences and Head, Department of Biosciences, SSSIHL	Member
Dr. Naren Ramji	Registrar, SSSIHL	Member Secretary
Sri G Srinivas Srirangarajan	Controller of Examinations, SSSIHL	Permanent Invitee

The Board of Management met four times during the academic year 2011/12 on 21 May 2011, 22 August 2011, 22 November 2011 and 30 March 2012.

The key items discussed and ratified during the year included appointments of new members of the teaching faculty, introduction of a 10-point scale grading system, implementation of new pay scales for the University staff, re-designation of the teaching faculty, proposal to start new courses (including a Department of Music) and the setting up of an Advanced Research Centre.

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 exercises such powers and performs such other duties and functions as may be prescribed or conferred upon it by the Rules of the Institute.

The following are its members:

Prof. J Shashidhara Prasad (Chairman)	Vice-Chancellor, SSSIHL
Prof. N S Nagaraj	Head, Dept. of Computer Science and Engineering, Don Bosco Institute of Technology, Bangalore
Prof. B K Panigrahi	Head, Ion Beam & Computer Simulation Section (IGCAR); Professor, Homi Bhaba National Institute, Kalpakkam, Tamil Nadu
Prof. P K Sai Prakash	Emeritus Scientist, Department of Chemistry, Osmania University, Hyderabad
Prof. V Nagaraja	Chairman, Dept. of Microbiology & Cell Biology, Indian Institute of Science, Bangalore
Prof. (Mrs.) P Baby Devaki	Former Head, Dept. of Home Science, Sri Venkateswara University, Tirupati, Andhra Pradesh
Prof. B L Pandit	Former Head, Dept. of Economics, Delhi School of Economics, University of Delhi, New Delhi
Prof. M Madhusudan Rao	Dept. of English, Acharya Nagarjuna University, Guntur, Andhra Pradesh
Prof. P K Sahoo	Head, Department of Education, University of Allahabad, Uttar Pradesh
Prof. Sripada Subramanyam	Director, Andhra Pradesh Govt. Oriental Manuscripts Library & Research Institute, Hyderabad, Andhra Pradesh
Prof. K Srinivas	Department of Philosophy, Pondicherry University, Kalapet, Puducherry
Prof. I Dosagiri Rao	Head, Department of Politics & Public Administration, Andhra University Campus, Kakinada, Andhra Pradesh
Prof. C Shareshchandra	Professor, Department of Hindi, Karnatak University Dharwad, Karnataka
Dr. J Suman Babu	Dept. of Telugu, P R Government College, Kakinada, Andhra Pradesh
Prof. A Sudhir Bhaskar	Dean, Faculty of Management and Commerce, and Director, Prasanthi Nilayam Campus, SSSIHL
Prof. S Krupanidhi	Dean, Faculty of Sciences and Head, Department of Biosciences, SSSIHL
Prof. G Balachandran	Dean, Faculty of Economics & Humanities, and Head, Dept. of Economics, SSSIHL
Dr. (Mrs.) Dwaraka Rani Rao	Director, Anantapur Campus, SSSIHL
Sri Sanjay Sahni	Director, Brindavan Campus, SSSIHL
Prof. V Chandrasekaran	Head, Department of Mathematics & Computer Science, SSSIHL
Dr. S Siva Sankara Sai	Head, Department of Physics, SSSIHL
Prof. Chelli Janardhana	Head, Department of Chemistry, SSSIHL
Prof. (Mrs.) Rashmi Kapoor	Head, Department of Home Science, SSSIHL
Prof. Shiv R Pandit	Head, Dept. of Management Studies, SSSIHL
Dr. (Miss) N Niranjana	Head, Department of Commerce, SSSIHL
Prof. (Miss) Madhu Kapani	Head, Department of Education, SSSIHL

Prof. (Miss) Rajeshwari C Patel	Head, Department of English Language & Literature, SSSIHL
Prof. U S Rao	Professor (Hon.), Department of Management Studies, SSSIHL
Dr. (Ms.) C Padvathamma	Professor (Hon.) in Sanskrit, SSSIHL
Dr. V Panduranga Rao	Former Associate Prof. (Hon.), SSSIHL, and former Reader in English, Sri Venkateswara College, Delhi University
Prof. R Gangadhara Sastry	Professor in Political Science, SSSIHL
Ms. M Vijayalakshmi	Asst. Professor in History & Indian Culture, SSSIHL
Dr. (Miss) Sharada Subramaniam	Associate Professor in Philosophy, SSSIHL
Dr. (Miss) Kiron Bala Arora	Associate Professor in Hindi, SSSIHL
Dr. (Mrs.) M Praphulla	Asst. Professor in Sanskrit, SSSIHL
Sri G S Srirangarajan	Controller of Examinations, SSSIHL
Dr. Naren Ramji (Secretary)	Registrar, SSSIHL

The Academic Council met on 20 November 2011. Agenda items included redrafted regulations of Ph.D. programmes and the newly introduced Optimal Numeric Point Requirement (ONPR) for Integral Items. Following this, the heads of various departments presented their proposals to the Academic Council for its consideration and approval.

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 2011/12, its members included:

Prof. J Shashidhara Prasad	Vice-Chancellor, SSSIHL	Chairperson
Sri Amit Khare	Joint Secretary (IC), Government of India, Ministry of HRD, Department of Higher Education, New Delhi	Nominee of the UGC
Sri V Srinivasan	Trustee, Sri Sathya Sai Institute of Higher Learning (Public Charitable Trust)	Member



Prof. R Kumar Bhaskar	Professor (Hon.), Dept. of Management Studies, SSSIHL	Member
Dr. Naren Ramji	Registrar, SSSIHL	Member
Sri Ratilal Pala	Finance Officer, SSSIHL	Secretary

The Meetings of the Finance Committee took place on 19 November 2011 and 29 March 2012. The committee reviewed the ongoing projects and the budget estimates for the financial year 2012/13.

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 meetings. 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 30 October 2011.

The following is the list of Boards of Studies, and their members for the academic year 2011/12.

Note: All teachers for each Department (and Sub-Department / Other Language) were invitees for the meeting of the Boards of Studies.

Department of MATHEMATICS & COMPUTER SCIENCE

Prof. K Vairamanickam	Head, Dept. of Science & Humanities, Krishnasamy College of Engineering & Technology, Cuddalore, Tamil Nadu
Prof. N S Nagaraj	Head, Dept. of Computer Science and Engineering, Don Bosco Institute of Technology, Bangalore
Dr. (Mrs.) Rita Gupta	Associate Professor, SSSIHL
Prof. V Chandrasekaran (Convener)	Professor (Hon.) and Head of Department, SSSIHL

Department of PHYSICS

Prof. B K Panigrahi	Head, Ion Beam & Computer Simulation Section (IGCAR); Professor, Homi Bhabha National Institute, Kalpakkam, Tamil Nadu
Dr. (Mrs.) Dwaraka Rani Rao	Director, Anantapur Campus, SSSIHL and Professor (Hon.)
Dr. K S Umesh	Associate Professor, SSSIHL
Dr. S Siva Sankara Sai (Convener)	Associate Professor and Head of Department, SSSIHL

Department of CHEMISTRY

Prof. P K Sai Prakash	Emeritus Scientist, Department of Chemistry, Osmania University, Hyderabad
Prof. S Srihari	Dept. of Environmental Studies, Kakatiya University, Warangal, Andhra Pradesh
Dr. K S Narahari	Associate Professor, SSSIHL
Dr. G Nageswara Rao	Associate Professor, SSSIHL
Prof. Chelli Janardhana (Convener)	Professor (Hon.) and Head of Department, SSSIHL

Department of BIOSCIENCES

Prof. V Nagaraja	Chairman, Dept. of Microbiology & Cell Biology, Indian Institute of Science, Bangalore
Dr. (Mrs.) Vijayalakshmi Venkatesan	Deputy Director, National Institute of Nutrition, Hyderabad
Dr. R Basavaraju	Professor (Hon.), SSSIHL
Prof. S Krupandhi (Convener)	Professor and Head of Department; and Dean, Faculty of Sciences, SSSIHL

Department of HOME SCIENCE

Prof. (Mrs.) P Baby Devaki	Former Head, Dept. of Home Science, Sri Venkateswara University, Tirupati, Andhra Pradesh
Dr. (Mrs.) B Andallu	Associate Professor, SSSIHL
Prof. (Mrs.) Rashmi Kapoor (Convener)	Professor and Head of Department, SSSIHL

Department of MANAGEMENT STUDIES

Prof. M Panduranga Vithal	Professor, Dept. of Finance and Strategy, Indian Institute of Plantation Management, Bangalore
Prof. V Nagadevara	Professor, Quantitative Methods & Information Systems, Indian Institute of Management, Bangalore
Prof. U S Rao	Professor (Hon.), SSSIHL
Prof. R Kumar Bhaskar	Professor, SSSIHL
Prof. Shiv R Pandit	Professor and Head of Department, SSSIHL
Prof. A Sudhir Bhaskar (Convener)	Dean, Faculty of Management and Commerce, SSSIHL

Department of COMMERCE

Prof. M Panduranga Vithal	Professor, Dept. of Finance and Strategy, Indian Institute of Plantation Management, Bangalore
Prof. R Kumar Bhaskar	Professor, SSSIHL
Sri Sanjay Sahni	Associate Professor, SSSIHL
Dr. (Miss) N Niranjana (Convener)	Professor (Hon.) and Head of Department, SSSIHL

Department of ECONOMICS

Prof. B L Pandit	Former Head, Dept. of Economics, Delhi School of Economics, University of Delhi, New Delhi
Dr. R Prabhakara Rao	Associate Professor, SSSIHL

Prof. G Balachandran (Convener)	Professor and Head of Department; and Dean, Faculty of Economics & Humanities, SSSIHL
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Department of EDUCATION

Prof. P K Sahoo	Head, Department of Education, University of Allahabad, Uttar Pradesh
Dr. (Mrs.) B Rudramamba	Associate Professor, SSSIHL
Prof. (Miss) Madhu Kapani (Convener)	Professor and Head of Department, SSSIHL

Department of ENGLISH LANGUAGE & LITERATURE

Prof. M. Madhusudhana Rao	Professor, Dept. of English, Nagarjuna University, Guntur, Andhra Pradesh
Dr. (Miss) S Kanaka Durga	Professor (Hon.), SSSIHL
Dr. V Panduranga Rao	Former Associate Prof. (Hon.), SSSIHL, and former Reader in English, Sri Venkateswara College, Delhi University
Prof. (Miss) Rajeshwari C Patel (Convener)	Professor and Head of Department, SSSIHL

Sub-Department of TELUGU LANGUAGE & LITERATURE

Dr. J Suman Babu	Dept. of Telugu, P R Government College, Kakinada, Andhra Pradesh
Dr. (Mrs.) M Praphulla	Asst. Professor, SSSIHL
Dr. (Ms.) C Padmavathamma (Convener)	Professor (Hon.), SSSIHL

Sub-Department of POLITICAL SCIENCE

Prof. I Dosagiri Rao	Head, Department of Politics & Public Administration, Andhra University Campus, Kakinada, Andhra Pradesh
Prof. R Gangadhara Sastry (Convener)	Professor, SSSIHL

Sub-Department of PHILOSOPHY

Prof. K Srinivas	Department of Philosophy, Pondicherry University, Kalapet, Puducherry
Dr. (Miss) Sharada Subramaniam (Convener)	Associate Professor, SSSIHL

Sub-Department of HISTORY & INDIAN CULTURE

Prof. K Krishna Naik	Chairman, Board of Studies, Sri Krishnadevaraya University, Anantapur, and Vice-Chancellor, Rayalaseema University, Kurnool, Andhra Pradesh
Prof. V Sakuntala	Dept. of History, Sri Venkateswara University, Tirupati, Andhra Pradesh
Prof. P Hymavati	Dept. of History, Kakatiya University, Warangal, Andhra Pradesh
Ms. M Vijayalakshmi	Asst. Professor, SSSIHL
Sri R Visveswar (Convener)	Asst. Professor, SSSIHL

Subject of SANSKRIT

Prof. Sripada Subramanyam	Registrar, Potti Sreeramulu Telugu University, Hyderabad, Andhra Pradesh
Dr. N Venkatesha Rao	Associate Professor, SSSIHL
Dr. (Mrs.) M Praphulla (Convener)	Asst. Professor, SSSIHL

Subject of HINDI

Prof. C Shareshchandra	Professor, Department of Hindi, Karnatak University Dharwad, Karnataka
Dr. (Miss) Kiron Bala Arora	Associate Professor, SSSIHL

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 consists of the Vice-Chancellor as the chairman, two external experts, Registrar, Controller of Examinations, Finance Officer, Deans of the faculties, Heads of departments, Directors of the campuses, representatives from library and sports management, and a 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 list of members for the academic year 2011/12 is as below.

Internal Members

Prof. J Shashidhara Prasad (Chairperson)	Vice-Chancellor, SSSIHL
Dr. Naren Ramji	Registrar, SSSIHL
Sri. G S Srirangarajan	Controller of Examinations, SSSIHL
Prof. S Krupanidhi	Dean, Faculty of Sciences and Head, Department of Biosciences, SSSIHL
Prof. V Chandrasekaran	Professor (Hon.) and Head, Dept. of Mathematics & Computer Science, SSSIHL
Prof. Chelli Janardhana	Professor (Hon.) and Head, Department of Chemistry, SSSIHL
Dr. S Siva Sankara Sai	Associate Professor and Head, Dept. of Physics, SSSIHL

External Members

Dr. (Mrs.) Vijayalakshmi Venkatesan	Deputy Director, National Institute of Nutrition, Hyderabad
Prof. P K Sai Prakash	Emeritus Scientist, Department of Chemistry, Osmania University, Hyderabad
Prof. M Panduranga Vithal	Professor, Dept. of Finance and Strategy, Indian Institute of Plantation Management, Bangalore

Prof. V Nagaraja	Chairman, Dept. of Microbiology & Cell Biology, Indian Institute of Science, Bangalore
Prof. K Vairamanickam	Head, Dept. of Science & Humanities, Krishnasamy College of Engineering & Technology, Cuddalore, Tamil Nadu

The Research Advisory Committee meeting was held on 28 November 2011. During the Committee's deliberations, the research profile and other related matters of interest, including the interdisciplinary nature of research at SSSIHL, the thrust areas of research in the coming years and the contribution towards research by the university's visiting faculty 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 3**) for the full list.

Examinations Committee

The Examinations Committee looks into the formulation of procedures and suitably advises 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 committee reviews and approves all research involving animal/human participants. The Committee is charged with protecting the interests of the research participants. The list of members for the academic year 2011/12 is as below.

Dr. V Mohan (Chairperson)	Chairman, Madras Diabetic Research Foundation, Chennai.
Dr. Raghava Reddy	Head, Dept. of Plastic Surgery, Sri Sathya Sai Institute of Higher Medical Sciences, Prasanthigram, Andhra Pradesh
Dr. (Mrs.) Shanmuga Vadivoo	Head, Dept. of Microbiology, Sri Sathya Sai Institute of Higher Medical Sciences, Prasanthigram, Andhra Pradesh
Sri Roop Arora	Sr. Advocate (Retd.), Maharashtra High Court, Mumbai
Prof. R Gangadhara Sastry	Professor in Political Science, SSSIHL

Dr. (Miss) Sharada Subramaniam	Associate Professor in Philosophy, SSSIHL
Major Gen. Shiv Dev Singh	Former Custodian, Sri Sathya Sai International Centre for Sports, SSSIHL
Prof. S. Krupanidhi (Secretary)	Dean, Faculty of Sciences and Head, Department of Biosciences, SSSIHL

The Meeting of the Institutional Ethics Committee, held on 19 February 2012, discussed primarily the areas of research work undertaken using human subjects in the departments of Biosciences and Home Science.

Institutional Bio-safety Committee (IBSC)

Rules for the manufacture, use, import/export and storage of hazardous micro-organisms/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.

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.

KEY ADMINISTRATIVE OFFICERS

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

Revered Founder Chancellor

Bhagawan Sri Sathya Sai Baba is the Revered Founder Chancellor of 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 his 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.

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 exercises 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 Crystals, Crystallography, and is also a renowned Scientist. He was formerly Vice-Chancellor of University of Mysore (2003-08); recipient of Aryabhata 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 twenty Ph.D. candidates; 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 functions as the Secretary of the Board of Management, Academic Council, Finance Committee and the Faculties. He represents 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 issues 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.

FACULTIES & DEPARTMENTS

The academic structure of SSSIHL comprises of three major faculties, ten departments, four sub-departments, two other languages and their respective faculty members. Kindly refer to the Academics section to view the full list of faculty members.

Faculty of Science

Dean: Prof. S Krupanidhi

1	Department of Mathematics & Computer Science	Prof. V Chandrasekaran
2	Department of Physics	Dr. S Siva Sankara Sai
3	Department of Chemistry	Prof. Chelli Janardhana
4	Department of Biosciences	Prof. S Krupanidhi
5	Department of Home Science	Prof. (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	Prof. (Miss) Madhu Kapani
10	Department of English Language & Literature	Prof. (Miss) Rajeshwari C Patel

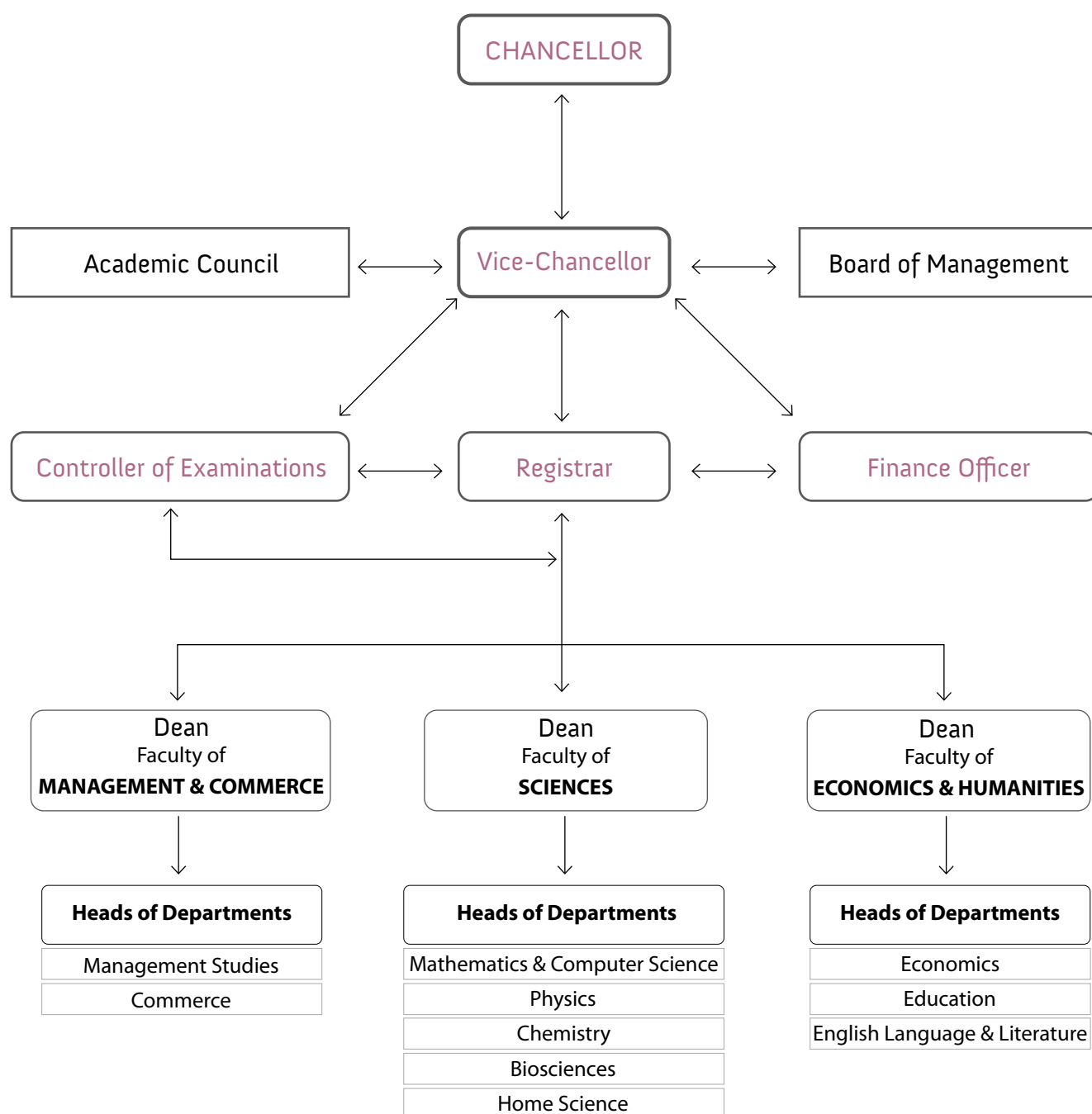
Under the Faculty of Economics & Humanities, there are four **Sub-Departments**. These are:

- Political Science
- History & Indian culture
- Philosophy
- Telugu Language & Literature

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

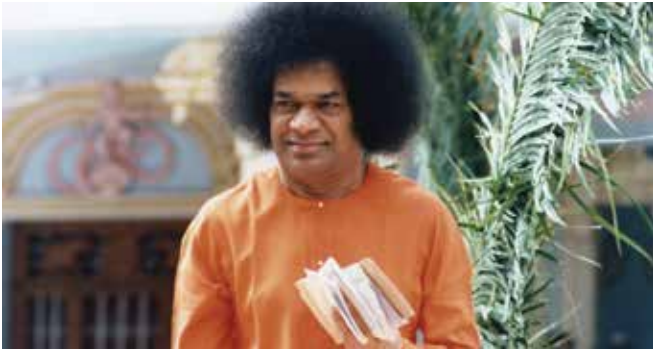
- Hindi
- Sanskrit

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.

appendices



APPENDICES

APPENDIX 1: MORAL CLASS SESSIONS - CAMPUS WISE

Prasanthi Nilayam Campus

Date	Topic	Speakers
2 Jun 2011	Spirituality and Interrelationships	Sri K Anil Kumar, Associate Professor (Hon.), Dept. of Biosciences, SSSIHL
24 Jun 2011	Badrinath Visit with Swami	Sri Arvind Hejmadi, Placement Officer (Hon.), Dept. of Management Studies, SSSIHL
30 Jun 2011	Experiences with and Miracles of Swami	Sri Vedanarayana, SSS Higher Secondary School
7 Jul 2011	Experiences in Swami's Fold	Prof. S R Krishnaswami, CEO, Preeti Petrochem USA, Dallas, Texas, USA
16 Jul 2011	Spiritual Quest as a Scientist	Prof. J Shashidhara Prasad, Vice-Chancellor, SSSIHL
28 Jul 2011	Experiences with Bhagavan - Interviews	Sri Vinay Kumar, Youth Coordinator, SSS Seva Organization, and Financial Consultant, Bangalore
11 Aug 2011	Moulding Youth in Sai's Way	Sri Ramachandra Rao, Alumnus, SSSIHL
8 Dec 2011	Swami's Mission and our Role as His Instruments	Prof. M Nanjundaiah, Former Controller of Examinations, SSSIHL
15 Dec 2011	Divine Discourse on Education – Video Film	
16 Feb 2012	Learning at Swami's Lotus Feet	Sri Venu Srinivasan, CMD, TVS Motors Co. Ltd., Chennai
1 Mar 2012	Sri Sathya Sai International Centre for Sports (Indoor Stadium) – A Jewel of Swami's Institutions	Major Gen. Shiv Dev Singh, Former Custodian, Sri Sathya Sai International Centre for Sports, SSSIHL

Note: In addition to the Moral Classes listed above, a Study Circle was held on select Discourses of Bhagawan for other Moral Class sessions during the year.

Anantapur Campus

Date	Topic	Speakers
2 Jun 2011	Laksha Archana	
14 Jun 2011	Talent show	Freshers
23 Jun 2011	Classical music competition	
30 Jun 2011	Valuable lessons taught by Bhagawan based on Indian Culture and Spirituality	Mrs. P K Usha Rani
14 Jul 2011	One Act Play competition	
21 Jul 2011	A Video presentation on "Soul's journey" focused on Bhagawan's Interview with the author of the Book – 'A Catholic Priest Meets Sai Baba'	Ms. U Suma, Asst. Professor, Department of Commerce, SSSIHL
	Veda chanting Competition	
28 Jul 2011	Mono Action Competition	

11 Aug 2011	Video show on old memories with Bhagawan Creative writing Competition on the topics "Sai! My Lord", 'Nature is my Best Friend', and 'My unforgettable experience' held in English, Hindi and Telugu	Doctoral Research Scholars, SSSIHL
25 Aug 2011	Cultural programme: contribution made by Telugu Literature to Indian Culture in dance, music and drama	Dr. (Ms.) C Padmavathamma, Professor (Hon.), in Telugu, SSSIHL
15 Sep 2011	Hindi Divas	
8 Oct 2011	Environment Issues	Dr. (Ms.) Seethalakshmi Laxmanan, Associate Professor (Hon.), Dept. of Biosciences, SSSIHL
10 Nov 2011	Light Music Competition	
17 Nov 2011	Quiz programme on 'Life, message, mission and vision of Bhagawan'	Dr. (Miss) Kiron Bala Arora, Associate Professor in Hindi; and Dr. (Miss) P L Rani, Asst. Professor, Department of English Language & Literature, SSSIHL
1 Dec 2011	Group dance competition	
3 Dec 2011	Classical dance competition	
15 Dec 2011	Elocution competition : Hindi, Telugu and English - The ideal which I practice or intend to practice	
22 Dec 2011	Instrumental Music competition	
18 Jan 2012	Sports Meet- Prize distribution function	
2 Feb 2012	Video presentation: participation in Sri Sathya Sai Seva Organization.	Mrs. Anubhuti, Former Youth Co-ordinator, SSS Seva Organization, Gujarat
10 Feb 2012	Presentation - Mathematics and Nature	Department of Mathematics, SSSIHL
23 Feb 2012	Panel discussion with video presentation - the mission and vision of Bhagawan and our role in carrying out His mission	Graduating students, SSSIHL
1 Mar 2012	Dance Programme	Students of the Performing Arts department of Self Reliance, SSSIHL
8 Mar 2012	Experiences with Bhagawan Personality development through Bhagawan's educational system	Dr. (Miss) T R Rajeswari, Associate Professor, Dept. of Commerce; and Mrs. Soujanya, Alumnus, SSSIHL
17 Mar 2012	Gratitude programme	Graduating students, SSSIHL

Brindavan Campus

Date	Topic	Speaker
2 Jun 2011	Bhagawan Baba's discourse to Students - Summer Course 1995 - A Video Presentation	
9 Jun 2011	My Beloved Lord	Sri Vinay Kumar, Youth Coordinator, SSS Seva Organization, and Financial Consultant, Bangalore
16 Jun 2011	Open House Quiz	
23 Jun 2011	My Beloved Lord	Dr. Upendra Acharya, Medical Superintendent, Sri Sathya Sai General Hospital, Whitefield

30 Jun 2011	Values in Life	Prof. N S Ramaswamy, National Professor in Management, Bangalore
7 Jul 2011	Divine Leelas in the Far East.	Sri Sanjay Sahni, Director, Brindavan Campus, SSSIHL
14 Jul 2011	Written Annual General Knowledge Quiz	
21 Jul 2011	Rabindranath Tagore's 150 th birth anniversary celebrations: A Presentation	Dept. of English, SSSIHL
28 Jul 2011	Purpose of Life	Sri Vijay Menon, Faculty, Indian Institute of Management, Kozhikode
11 Aug 2011	Excellence	Dr. J M Sampath, Managing Director, Arpitha Associates, Bangalore
18 Aug 2011	Dramatics: Monoacting Competition	
25 Aug 2011	English Elocution Competition	
1 Sept 2011	Vinayaka Chaturthi Celebrations	
8 Sep 2011	Divine Experiences	Mr. C Rommel, Indian Foreign Service
15 Sep 2011	General Knowledge Quiz – Preliminary Round	
10 Nov 2011	Messenger of Sai	Students sharing their vacation experiences
17 Nov 2011	Brainstorming Session for Sports Meet	
1 Dec 2011	Inter - House Quiz Competition	
8 Dec 2011	Inter - House Debate Competition	
15 Dec 2011	International Year of Chemistry Celebrations: A Presentation	Dept. of Chemistry, SSSIHL
22 Dec 2011	Miracles Happen - A Video presentation	Sri T T Rangarajan
29 Dec 2011	Inter - House Dramatics Competition	
19 Jan 2012	Expressions	Students sharing Sports Meet experiences
2 Feb 2012	What do youth want?	Dr. Sandeep Shastri, Pro Vice-Chancellor, Jain University, Bangalore
16 Feb 2012	My Beloved Lord	Sri V Prithvi Raj, Supreme Court Advocate, Cuttack, Orissa
23 Feb 2012	Significance of Yoga	Sri A Subramanian, Faculty, Swami Vivekananda Yoga Anusandhana Samsthana (S-VYASA) Yoga University, Bangalore
1 Mar 2012	Musical Offering	Sri Sairam Iyer, Mumbai
8 Mar 2012	My Beloved Lord	Sri Satyajit Salian, Alumnus, SSSIHL
15 Mar 2012	Pratima Natakam – A Sanskrit Drama: A Presentation	Dept. of English and Sub-Dept. of Sanskrit, SSSIHL

APPENDIX 2: SSSIHL 30TH ANNUAL CONVOCATION

Introductory Address by Prof. J Shashidhara Prasad, Vice-Chancellor, SSSIHL

*Aum Sayeeswaraya vidmahe
Sathya Devaaya Deemahi
Tannah Sarvah prachodayaat*

I offer my most respectful, humble and loving salutations at the lotus feet of my beloved Bhagawan Baba. This is the first convocation to be held after Swami left his mortal coil and assumed His infinite form. I am fully confident He is witnessing this ceremonial function in which the degrees are conferred on His children whom Baba considers as his property. Swami founded this University for imparting values-based integral education, so that the graduates who leave the portals of this hallowed institute will become ambassadors of transformation for creating a happy and peaceful world, filled with love and harmony. Baba we will assure you that we will tread the path laid down to us by yourself setting an example, and that we will carry forward the institution to greater heights as per your expectations.

Chief Guest of the day Prof. P Balaram, former Vice-Chancellors, Members of the various Trusts, Board of Management and Academic Council, Members of the Faculty, distinguished invitees and guests, Graduands of the year, students of the Institute 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 thirtieth Convocation of Sri Sathya Sai Institute of Higher Learning.

The mantle of chancellorship of Sri Sathya Sai Institute of Higher Learning has fallen on the highly experienced shoulders of one of the senior most devotees of Bhagawan, Justice P N Bhagwati. Justice Bhagwati has earned great respect of people from all walks of life as an upright and honest person to the core who brought great respect to the judiciary during his tenure as Chief Justice of India. He has been able to instil spiritual and ethical values in judicial pronouncements, being fully versed with the heritage and value system of this great nation. With his vast experience in public life and his steadfast respect and love for Bhagawan and His mission, I am sure this university will benefit through his advice and guidance in the years to come. Today he is not present here, as he was advised by the doctors not to take up travel on health grounds.

We are honoured to have Professor P Balaram, Director, Indian Institute of Science, Bangalore, as the Chief Guest to the thirtieth Convocation. I met Prof. Balaram for the first time in 1975 when I attended the advanced Biophysics workshop organised at Indian Institute of Science, Bangalore. Since then I have had the privilege to follow his academic career and how he has made a mark as a great scientist of high impact. I am happy to share the remark of another reputed scientist Prof. E S Rajagopal, former Director of National Physical Laboratory, Delhi when he introduced Prof. Balaram to the scientific community of Indian Association for Cultivation of Science, Calcutta, He said, "Prof. Balaram is the jewel in the crown of Indian science." The impact made by over 400 publications in highly rated journals has been recognised by several national and international academies by electing Prof. Balaram as Fellow. He was a member of National Knowledge Commission, and is serving as member of the Science Advisory Committee to the Prime Minister and the Union Cabinet. His contribution for restructuring the journal 'Current Science' and increase its credibility, is worth mentioning. It is a pleasure to read the sharp and crisp editorials in Current Science. In spite of the fact he is holding the important administrative responsibility as the Director of the Indian Institute of Science, his interest in research and teaching has not dwindled. He spends considerable time of the day with his students. Prof. Balaram is known for his simplicity and humility in spite of being a shining star in the world of science. I very warmly and affectionately welcome him.

Sri Sathya Sai Institute of Higher Learning founded by Bhagawan Sri Sathya Sai Baba for imparting values-based integral education thirty years back has successfully shown to the world how values can be integrated with secular education. The university was assessed and accredited for the second time by the National Assessment and Accreditation Council (NAAC) and is rated to be amongst the top six in the country. Of late, as per the wishes of Baba, the university is geared to strengthen research in interdisciplinary areas and has made great strides. It has been proposed to start an Advanced Research Centre as was blessed by Swami, and the plan for Advanced Research Centre building is ready and the construction will commence shortly. The pass percentage in GATE/UGC-CSIR NET examinations is amongst the highest in the country and over the past five years, 24% of the Postgraduate students have qualified in

these examinations. The pass percentages in the examinations of the regular academic programmes too have maintained their high record as in the past. In 2010-2011, the pass percentage for Undergraduate programmes was 94% and for Postgraduate programmes it was 97%. The university has started collaborative research with the totally free super specialty hospitals founded by Bhagawan.

It is heartening to note that as per a UGC Report of 2011:

- The National average of research students in Higher Education is 0.7% per Institution, whereas it is 5% in our University
- The National average of Teacher-Student ratio is 33:1, and that of 'A' Grade Institutions is 30:1, whereas Sri Sathya Sai Institute of Higher Learning has the ratio 8:1.

The past academic year has witnessed the following unique events:

- Commencement of the Bachelor of Business Management (BBM) and Bachelor of Computer Applications (BCA) programmes
- Commencement of M.Sc. in Food Science & Nutrition and M.Sc. in Food Technology programmes
- As part of the ongoing examination reforms process, the existing grading system has been revised and a new 10-point Scale Grading System has been implemented
- To accommodate larger intake of students and researchers, an extension block to the Hostel at the Prasanthi Nilayam Campus is under construction.

Once again I warmly welcome each one of you for this auspicious ceremonial function.

Jai Sai Ram!

Chief Guest's Address by Prof. P Balaram, Director, Indian Institute of Science, Bangalore

It is indeed a great privilege for me to be with you on the occasion of the 30th Convocation of the Sri Sathya Sai Institute of Higher Learning. Yours is a unique institution that has evolved over the last three decades in a unique ambience. The emphasis on discipline and restraint is a striking feature of your institution. Indeed, Sri Sathya Sai Baba has said: "In this University the medium of instruction is discipline. The first, second and third languages are love, service and sadhana (Spiritual discipline)." The founder's influence permeates your surroundings. In accepting this invitation to address you I have placed myself in a very difficult position. I have been a laboratory scientist throughout my adult life. The Vice-Chancellor was kind enough to send me copies of Convocation addresses delivered in the recent past. I then realized that I had the unenviable task of attempting to follow Dr. A P J Abdul Kalam, Dr. Manmohan Singh and your own very scholarly Vice-Chancellor, Dr. G Venkataraman, as a speaker at the annual convocation. What can I say that has not been said before by such enormously accomplished and experienced speakers.

In reading about the areas of interest in your university I noticed that all of you are concerned with three broad streams of knowledge – Science, Management and Commerce and Economics and Humanities. It is these disciplines which today lie at the core of most of our universities. Engineering, Medicine, Law and Agriculture are now the domain of specialized institutions. In the best of our institutions, IITs, and my own institution the Indian Institute of Science, science and engineering are the main focus. In the IIMs, management is taught as a "stand-alone discipline" in an environment devoid of any other subject. In the evolution of our institutions we have chosen the path of fragmentation of knowledge, favouring specialization over a broad education, even at undergraduate level. Many students of science at school face a difficult choice. Should they try to enter engineering or medical courses or is there a future in studying science. Some courses are labeled as "professional", a term, which suggests, rather curiously, that B.Sc. and B.A. courses are "unprofessional". It is this divide between science, engineering, medicine and the humanities, which must be bridged in India today.

Coming as I do, from the Indian Institute of Science, I thought this might be an opportune moment to reflect on science and engineering and the changing face of research. What are the differences between science and engineering? Is it not true that science and engineering are two sides of the same coin? What causes the huge difference in perception at the level of college degrees and

why is this gulf less evident in the great universities of the West? Are the growing number of computer modellers, 'engineers'? Why are 'computer science' departments so named, especially when they are always staffed by faculty with engineering degrees? Curiously, it is this area which is most sought after by students in many institutions, its attraction undimmed by association with science. Several decades ago, before the electronic and digital revolutions hit science like a tsunami, it was easy to differentiate engineering students from those who studied science. The former carried T-squares and slide rules and spent time in workshops and were even taught to operate lathes. The latter carried 'log tables' and went to practical classes, which involved considerable physical labour. In the pre-computer era, both science and engineering courses seemed to emphasize experimental work, as a critical component of training. I suspect that practical classes are much less rigorous nowadays for both science and engineering students. Even a cursory glance at most college laboratories today will reinforce this feeling. There is a new feature that epitomises the modern age. All colleges, even the most poorly equipped, boast of a 'computer laboratory', with dozens of desktop computers (laptops in some places) stacked in neat arrays in well furnished rooms. The distinctions between science and engineering students seem to blur in the computer classroom.

Engineering and science are frequently difficult to distinguish. A long time ago there was, indeed, little distinction. There were scientists and inventors. Disciplinary boundaries were much less pronounced. Michael Faraday can, indeed, be claimed by physicists, chemists and electrical engineers as one of their own. Louis Pasteur was an organic chemist, a microbiologist and a biotechnologist. Then there were the inventors: George Stephenson, Thomas Edison, Alexander Bell and Nikola Tesla among others. J. C. Bose was a physicist, biologist, physiologist and inventor, but these terms were much less well defined in his time.

In institutions like my own, the Indian Institute of Science, where research is a prime focus, the distinctions between scientists and engineers are indeed blurred. Are there two distinct species of researchers who can be identified, whose characteristics mark them out as decidedly different? I might venture to suggest that a contemporary classification may separate theorists from those who do experiments. Computer modelling is the key thread that binds diverse disciplines. The structural integrity of buildings and bridges, the design of molecules and machines, the simulation of monsoons and blood flows, the analysis of networks, both electrical and biological, appear to be drawn together by high performance computing. There are indeed few theorists who walk around with paper and pencil, armed only with mathematical skills and physical concepts. The terms computational chemistry and biology describe an increasing tribe of researchers far removed from the pain, excitement and thrill of experiment. In the area of materials research, scientists and engineers work on similar problems sometimes claiming that their approaches are different; practitioners of religions into which they were inducted at an early age.

The winds of change have long swept over the frontiers of science and engineering, destroying walls and eliminating boundaries. In the new world of research, success may require a facility to easily bridge the gaps between disciplines. It may indeed be critical to think of new experiments in undergraduate education, where science and engineering merge seamlessly to build a new generation of professionals and researchers.

In the sciences the challenges of modern day research pose formidable problems for educators. Interdisciplinary skills are essential for solving all the major scientific and technological issues that confront us. This is true of modern biomedical and agricultural research; it is true of the areas of pharmaceuticals and diagnostics; it is true of research in the area of solar energy or climate change. Indeed, compartmentalization of disciplines is a major impediment for progress. Breaking disciplinary barriers and breaching the concrete walls that separate departments and subjects must be a major challenge for universities in the near future. We must recognize that our Universities have been impoverished by separating engineering and medicine from the sciences, social sciences and humanities. Compartmentalization of learning is contrary to the very basis of a university. We must ensure that innovation and enterprise are encouraged for both faculty and students. Moving towards "Pasteur's quadrant", a phrase used to describe research that is both fundamental and applicable, is something we must aspire for. This is a term that derives its origin from the work of the famous French scientist Louis Pasteur, who contributed fundamentally to chemistry and biochemistry and whose work in microbiology led to great advances in our attack on infectious disease.

I have so far spoken of general issues. But I am sure some of you may look far ahead and ask: "How does an individual become successful?" I can only consider this in the context of scientific research, a limitation imposed by my own experience. The best advice was given many years ago by Richard Hamming, a computer scientist and mathematician. I like to call his set of rules "The Hamming Prescription." There is, of course, one cardinal Rule – work very hard. Productivity requires hard work and total commitment. Hamming quotes Newton: "If others would think as hard as I did, they would get similar results." Hamming says: "Knowledge and productivity

are like compound interest. Given two people with exactly the same ability, the one person who manages day in and day out to get in one more hour of thinking will be tremendously more productive over a lifetime”.

In concluding my address, I would like to borrow from a remarkable Commencement Speech at Harvard University in 2008 delivered by J K Rowling, the creator of Harry Potter. Her title is compelling: “The Fringe Benefits of Failure and the Importance of Imagination”. The Rowling story is now the stuff of legend. The rise of a poor, single mother in her thirties to one of the most successful authors of her times, in the short span of a few years is an inspirational story. When Rowling reflects on her experiences, before a Harvard audience, she eloquently touches on issues that must strike a chord in most of us: ‘Half a lifetime ago, I was striking an uneasy balance between the ambition I had for myself and what those closest to me expected of me.’ She notes that her parents hoped she would study for a ‘vocational degree’. Instead she ‘scuttled off down the Classics corridor’. Her parents, Rowling reflects, ‘would have been hard put to name’ a subject ‘less useful than Greek mythology when it came to securing the keys to an executive bathroom’. Rowling’s parents wished for her a future that millions upon millions of poor parents across the world wish for their children, a lifetime free of poverty. In Rowling’s words: ‘They had been poor themselves, and I have since been poor and I quite agree with them that it is not an ennobling experience. Poverty entails fear, and stress, and sometimes depression...poverty itself is romanticised only by fools’. But, in an intriguing insight that seemed especially appropriate for the elite graduating class, Rowling notes that what she feared most ‘was not poverty but failure’. Rowling is at her most eloquent when she says that ‘talent and intelligence never yet inoculated anyone against the caprice of the Fates’, reminding her Harvard audience that they might well ‘be driven by a fear of failure quite as much as a desire for success’. She turns to her main theme in declaring that ‘failure gave me an inner security that I had never attained by passing examinations. Failure taught me things about myself that I could have learned no other way.’

Many successful individuals would echo Rowling when she says: ‘The knowledge that you have emerged wiser and stronger from setbacks means that you are, ever after, secure in your ability to survive’. Rowling is more qualified than most to extol the virtues of imagination: ‘Imagination is not only the uniquely human capacity to envision that which is not, and therefore the fount of all invention and innovation. In its arguably most transformative and revelatory capacity, it is the power that enables us to empathise with humans whose experiences we have never shared.’

The Rowling story of a rise from rags to riches and fame is likely to be retold many times in future. What is the quality that really makes such transformations possible? Undoubtedly, it is an inner toughness, a unique resilience that learns quickly from failure, turning defeat into victory. Failure is a common phenomenon in research, but this is a condition that is generally not recognized. In refusing to acknowledge failure we do not learn from it; borrowing Rowling’s phrase, we do not reap the ‘fringe benefits of failure.’

I do hope that all of you will have plenty of opportunities to think and act in the years to come. You are living in exciting times and the future will challenge you. I hope that what you have learnt in this institution will stay with you. May I wish each and every one of you the very best in the years ahead.

Excerpts from Revered Founder Chancellor's Benedictory Address

Students! Boys and girls. You are educated, you are having high degrees but in spite of all this, you don't have mental peace.

Ihamunu sukhayempu Hemataraka vidya
Paramunu sukhayempu Brahma vidya

To be happy and comfortable in this world you need secular and physical knowledge. However, spiritual knowledge cannot be gained from this formal education. Enquiry is needed to acquire spiritual knowledge.

Adhyatma Vidya Vidyanam: Spiritual education is the real education among all forms of education.

Sa Vidya Ya Vimuktye: Real education results in liberation.

As students you have so many doubts regarding education. Students are not able to understand the latent, immanent divinity within them. Students must first of all know their true nature by putting a question: 'Who am I?'

Parents play a major role in knowing whether duty comes first or rights. Among rights and responsibility, rights are important. But we dismiss our responsibilities. Without parents putting their efforts, how can you expect to live here today? Hence you have to safeguard the rights of parents. Once you know the rights of your parents, they will discharge their duties accordingly. As per Bhartiya culture, mother and father are held equal to God (Matru devo bhava, Pitru devo bhava)

Today science has become great, how do you think it has got this greatness? It is just limited to earth and the life here, it is not transcendental. What are the effects of this science? Effects of science tell us about changes and fluctuations in nature. Science clearly explains the mysteries of nature. Nature teaches us the principles of birth, growth, development and progress. But there lies a foundational principle which is spirituality.

Without a spiritual foundation none can understand the influence of science.

Churchill said, 'Man has conquered all, but he has not conquered himself.' He is able to know the world but he is not able to know his own nature which is utterly useless. Man today is making an attempt to know everything of the world. He tries to explore nature with the help of this science. But first understand his own nature.

To begin with you have to know your potentiality. In earlier days, at the time of convocation they used to tell sacred things like Matru Devo Bhava, Pitru Devo Bhava, Acharya Devo Bhava, Atithi Devo Bhava (mother is God, father is God, teacher is God, guest is God). Without parents how you expect to be here? Mother directs you towards father, father directs you towards teacher and teacher directs you to God. But today there are very few teachers who take you to God. Whatever the situation, mother always directs you to father. It is only the mother who has the right to direct you towards father.

Today, we have forgotten the eternal principle of motherland. All the students should understand the principle of mother in relation to our motherland.

Students! Today you are taking the degrees and going into the society. In Bharat there are 200 universities and thousands of colleges. These colleges and universities send forth Lakhs of students every year into the society. What these outgoing students are doing? With all this high education what they do for livelihood?

In earlier days you are education was imparted for getting a job, but now-a-days, education depends on the job you want to take up. Today there is no employment hence the students are going abroad. What they do in foreign countries? They do all types of jobs

in foreign countries that can't be mentioned here. Why don't you do the same service in your own country? Why don't you render services in your own motherland? Students today don't serve their own mothers and motherland. They serve in foreign countries which is not proper. This is not education. In fact you have to dedicate your life to the country where you have been born and taken education. In this battle of life, man must be victorious and triumphant by serving his own motherland.

Today students are not ready to work. Work is important. There is nothing great in earning degrees many have got degrees. Lakhs and Lakhs have received their degrees since independence but what are they doing to our country. They are not ready to serve the society. They don't try to uplift this country. One has to know the sacred culture and heritage of this country. If you can't safeguard your own culture and traditions how do you expect to safeguard the culture of others.

Students! Give up the idea of going abroad. If you don't get any job, at least serve in your own residence. Serve society.

Embodiments of love!

You have spent so much time in Swami's college, have you spent a single naya paisa? No. Bhagawan feels so concerned if you have to spend money. You all have grown up in this hostel for all these years. Go to your native places, serve your parents, get jobs and also visit Prasanthi Nilayam in between. Sometimes you may forget what you have learnt so come back and nurture whatever you have learnt here, again. You have to take care of children, youth have to be molded as ideal people. Bhagawan will be very happy to have such ideal students.

Many people ask Bhagawan, "Swami what is your property?" I reply, "My students are my property." If they are good wherever they go, if they get a good name; that gives immense joy to Bhagawan.

Students! During this convocation you take the degree for your education but you should take the degree of educate from Bhagawan. Bliss of the Self is educate. Bhagawan will take care of you in all possible ways. You have to bend your body and work and should not be lazy. 'Laziness is rust and dust, realization is rest and best.' Attain that realization.

List of Gold Medallists, 30th Annual Convocation, SSSIHL

No.	Gold Medal	Awardee
1	Justice P N Bhagwati Gold Medal	Sri Mohana Rao Gorai, for Distinction in Master of Technology in Computer Science
2	9th President of India, Dr. Shankar Dayal Sharma Gold Medal	Sri Ch. Venkata Jayachandra Shastry Lakshmi, for Distinction in Master of Business Administration
3	11th President of India, Dr. A P J Abdul Kalam Gold Medal	Sri Gaurav Sateesh Kudtarkar, for Distinction in Master of Business Administration in Finance
4	Sri Burgula Ramakrishna Rao Gold Medal	Sri Aditya Prakash, for Distinction in Master of Science in Mathematics
5	1st Vice-Chancellor, SSSIHL, Dr. V K Gokak Gold Medal	Sri Sai Vivek Walia, for Distinction in Master of Arts in Economics
6	2nd Vice-Chancellor, SSSIHL, Dr. Somnath Saraf Gold Medal	Sri Sharma Sanjeev Mahadeva, for Distinction in Master of Science in Biosciences
7	3rd Vice-Chancellor, SSSIHL, Prof. S Sampath Gold Medal	Sri Majety N V Vinay Pramod, for Distinction in Master of Science in Physics
8	4th Vice-Chancellor, SSSIHL, Dr. K Hanumanthappa Gold Medal	Sri B Sunil Kumar, for Distinction in Master of Science in Chemistry
9	5th Vice-Chancellor, SSSIHL, Dr. G Venkataraman Gold Medal	Sri Mulpur Pradyumna, for Distinction in Master of Science in Nanoscience and Nanotechnology
10	7th Vice-Chancellor, SSSIHL, Sri A V Gokak Gold Medal	Sri Bishal Chettri, for Distinction in Bachelor of Arts (Honours) in Economics
11	8th Vice-Chancellor, SSSIHL, Prof. Vishwanath Pandit Gold Medal	Sri Sai Vinod M S, for Distinction in Master of Philosophy in Management and Master of Philosophy in Economics
12	The Vice-Chancellor, SSSIHL, Prof. J Shashidhara Prasad Gold Medal	Sri Samresh Kumar, for Distinction in Bachelor of Science (Honours) in Physics
13	Mother Eswaramma Gold Medal	Kum. M Divya, for Distinction in Bachelor of Education
14	Sri R V Janakiramaiah Gold Medal	Sri Sarthak Subidit Behera, for Distinction in Bachelor of Science (Honours) in Economics
15	Smt. M Venkamma Gold Medal	Kum. Parvathy K R, for Distinction in Master of Science in Home Science
16	Smt. A Parvathamma Gold Medal	Kum. Lalitha V, for Distinction in Bachelor of Science (Honours) in Biosciences
17	Sri Shankarrao B Chavan Gold Medal	Sri Rashmi Ranjan Jena, for Distinction in Bachelor of Commerce (Honours)
18	Smt. J Eashwari Bai Gold Medal	Kum. Ramlaxmi Pichika, for Distinction in Bachelor of Science (Home Science)
19	Smt. R Sundari Kondala Rao Gold Medal	Kum. B Manjusha, for Distinction in Bachelor of Science (Honours) in Chemistry
20	Sri S N Singh Gold Medal	Sri Harshavardan Raghunandan, for Distinction in Bachelor of Science (Honours) in Mathematics
21	Dr. S M Khot Gold Medal	Kum. Saikrishna R S, for Distinction in Bachelor of Arts
22	6th Vice-Chancellor, SSSIHL, Sri S V Giri Gold Medal	Sri Prasanth Ghanta, for Distinction in Master of Philosophy in Sciences

Dear students!

Be like the star which never wavers from the crescent but is fixed in steady faith. When the sun is over your head; there will be no shadow; so too when faith is steady in your heart; it should not cast any shadow of doubt.

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

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

With Blessings
Baba.





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