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
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
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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 Chickballapur (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.”

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

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.”

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...
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

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 peaceful 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.
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
Prime Minister of India

‘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

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


Usage Ratio

1:1

362

1208

229:1

145:1

‘A’ Grade Institutions Average*

SSSIHL

National Average*
THE YEAR IN REVIEW: 2011/12

Expenditure on Equipment & Infrastructure

<table>
<thead>
<tr>
<th>Year</th>
<th>Equipment &amp; Infrastructure</th>
<th>Expenditure per Student / per Year</th>
<th>Cost to Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009/10</td>
<td>₹ 6.86 Crores</td>
<td></td>
<td>₹ 77,874</td>
</tr>
<tr>
<td>2010/11</td>
<td>₹ 5.20 Crores</td>
<td></td>
<td>₹ 89,298</td>
</tr>
<tr>
<td>2011/12</td>
<td>₹ 8.64 Crores</td>
<td></td>
<td>₹ 1,29,861</td>
</tr>
</tbody>
</table>

ALL STUDENTS RECEIVE FREE EDUCATION
**Student - Teacher Ratio**

- National Average: 33:1
- ‘A’ Grade Institutions: 30:1
- SSSIHL Average: 8:1

The above reflects full-time faculty.

**Examinations Pass Percentage**

- Undergraduate Programmes: 92%
- Postgraduate & Professional Programmes: 97%

**Projects and Dissertations**

- 140/173 (81%)

**Performance in National Exams**

- GATE/JEST
  - 2009/10: 15%
  - 2010/11: 19%
  - 2011/12: 15%

- CSIR-UGC/NET
  - 2009/10: 4%
  - 2010/11: 6%
  - 2011/12: 12.5%

**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.

- 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
1 Overview  2 The Year in Review  3 Academics  4 Integral Education  5 University Structure

**THE YEAR IN REVIEW: 2011/12**

**GRADUATES**

- Total Graduates: 433
- Women: 157 (36%)
- Men: 276 (64%)

**Gold Medallists**

- Women: 6
- Men: 14

**Applications Vs. Admissions**

- Total Applicants: 1583
- Admitted: 760 (25% Acceptance Rate)

**Graduates by Programme**

- Undergraduate: 239 (55%)
- Postgraduate: 101 (23%)
- Professional: 85 (20%)
- Research: 8 (2%)

**Total Admissions**

- Total Admissions: 518
- Women: 220 (42%)
- Men: 298 (58%)

**Applications Vs. Admissions**

- Total Applicants: 1583
- Admitted: 760 (25% Acceptance Rate)
STUDENT STRENGTH

1208

By Campus

- PSN: 466 (39%)
- ATP: 447 (37%)
- BRN: 293 (24%)

By Faculty

- SCIENCES: 651 (54%)
- MANAGEMENT & COMMERCE: 394 (33%)
- ECONOMICS & HUMANITIES: 163 (13%)

By Programme

- UNDERGRADUATE: 794 (66%)
- POSTGRADUATE: 208 (17%)
- PROFESSIONAL: 146 (12%)
- RESEARCH: 60 (5%)

PSN: Prasanthi Nilayam Campus | ATP: Anantapur Campus | BRN: Brindavan Campus
**Note:** Additionally, 19 faculty members are currently registered for a Ph.D. Programme.

**Note:** The above is a partial list of the Institutions / Corporate Organizations from where eminent academicians and senior corporate executives visit SSSIHL.
THE YEAR IN REVIEW: 2011/12

Journal Papers
- 2009/10: 52
- 2010/11: 75
- 2011/12: 111

Conference Papers
- 2009/10: 93
- 2010/11: 76
- 2011/12: 128

Books / Chapters
- 2009/10: 5
- 2010/11: 12
- 2011/12: 26

Research & Teaching Grants
- 2009/10: ₹3.29 CRORES
- 2010/11: ₹1.91 CRORES
- 2011/12: ₹3.29 CRORES

Doctoral Research Scholars
- 2011/12: 60

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

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

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

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 are 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:

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation</th>
<th>Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Ramaier Sriman</td>
<td>Senior Manager, UMS (Hon.)</td>
<td>B.Sc., M.Eng., Ph.D.</td>
</tr>
<tr>
<td>Sri R. Renju</td>
<td>Information Scientist, Computer Centre, Prasanthi Nilayam Campus</td>
<td>B.E., M.B.A.</td>
</tr>
<tr>
<td>Miss D. Anita</td>
<td>Information Scientist, Computer Centre, Anantapur Campus</td>
<td>B.Tech.</td>
</tr>
<tr>
<td>Sri S. Sathyanarayanan</td>
<td>Information Scientist, Computer Centre, Brindavan Campus</td>
<td>M.Sc., M.S. (Software Systems)</td>
</tr>
<tr>
<td>Sri Srivarun Vallampatla</td>
<td>Software Lab Manager, Dept. of Mathematics &amp; Computer Science</td>
<td>B.B.M., M.I.T.</td>
</tr>
<tr>
<td>Dr. S. Bhaskaran</td>
<td>Honorary Administrator, Bioinformatics Lab, Dept. of Biosciences, Prasanthi Nilayam Campus</td>
<td>B.Sc., M.Sc., Ph.D., Dip. B.A.</td>
</tr>
<tr>
<td>Dr. Sanjay Mahalingam</td>
<td>Senior Systems Administrator, Prasanthi Nilayam Campus</td>
<td>B.Info. Tech., M.B.A., Ph.D.</td>
</tr>
<tr>
<td>Sri Neelrutna R. Chowbal</td>
<td>Computer Centre Administrator, Prasanthi Nilayam Campus</td>
<td>M.B.A.</td>
</tr>
<tr>
<td>Sri C. Udaiakiran</td>
<td>Systems Administrator, Computer Lab, Department of Mathematics &amp; Computer Science, Prasanthi Nilayam Campus</td>
<td>B.E. (Computer Science), M.S. (Software Systems)</td>
</tr>
<tr>
<td>Sri R. N. Raghuram</td>
<td>Technical Assistant, Multimedia Centre, Prasanthi Nilayam Campus</td>
<td>M.Sc.</td>
</tr>
<tr>
<td>Ms. M. Thabasum</td>
<td>Technical Assistant, Multimedia Centre, Anantapur Campus</td>
<td>B.A.</td>
</tr>
<tr>
<td>G V Venkata Raju</td>
<td>Technical Assistant, Multimedia Centre, Brindavan Campus</td>
<td>SSLC, ITI (Electrical)</td>
</tr>
</tbody>
</table>
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:

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation</th>
<th>Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. K Tata Rao</td>
<td>Librarian, Prasanthi Nilayam Campus</td>
<td>M.Com., M.L.Sc., Ph.D.</td>
</tr>
<tr>
<td>Ms. Pushpa Ramanna</td>
<td>Honorary Librarian, Anantapur Campus</td>
<td>-</td>
</tr>
<tr>
<td>Sri M G Nandagopal</td>
<td>Asst. Librarian, Brindavan Campus</td>
<td>M.Com., B.L.Sc.</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation</th>
<th>Qualification</th>
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<tbody>
<tr>
<td>Sri K P Gopinath</td>
<td>Physical Instructor, Brindavan Campus</td>
<td>B.A.</td>
</tr>
<tr>
<td>Sri R N Ravindra Kumar</td>
<td>Asst. Director of Physical Education, Prasanthi Nilayam Campus</td>
<td>B.Sc., M.P.Ed.</td>
</tr>
<tr>
<td>Mrs. K Hemalatha</td>
<td>Asst. Director of Physical Education, Anantapur Campus</td>
<td>M.A., M.P.Ed., M.Phil.</td>
</tr>
</tbody>
</table>

Two of the main sports facilities available for students are:

**Sri Sathya Sai International Centre for Sports**

An avant-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

<table>
<thead>
<tr>
<th>Undergraduate</th>
<th>B.Sc. (Hons.) in Mathematics</th>
<th>Bachelors of Computer Applications (BCA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Postgraduate</td>
<td>M.Sc. Mathematics with specialization in either:</td>
<td>(a) Pure Mathematics (b) Applied Mathematics, or (c) Computer Science</td>
</tr>
<tr>
<td>Professional</td>
<td>M.Tech. Computer Science</td>
<td></td>
</tr>
<tr>
<td>Research</td>
<td>M.Phil. &amp; Ph.D.</td>
<td></td>
</tr>
</tbody>
</table>

TEACHING FACULTY

Head of Department: Prof. V Chandrasekaran

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation</th>
<th>Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. C. Jagan Mohan Rao</td>
<td>Professor (Hon.)</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Prof. V. Chandrasekaran</td>
<td>Professor (Hon.)</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Dr. K. S. Sridharan</td>
<td>Professor (Hon.)</td>
<td>M.E., Ph.D.</td>
</tr>
<tr>
<td>Dr. (Mrs.) R. Gupta</td>
<td>Associate Professor</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Sri R. Subramanian</td>
<td>Associate Professor</td>
<td>M.Sc.</td>
</tr>
<tr>
<td>Dr. Pallav Kumar Baruah</td>
<td>Asst. Professor</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Dr. (Ms.) Laxmi Naidu</td>
<td>Asst. Professor</td>
<td>M.Sc., M.Phil., Ph.D.</td>
</tr>
<tr>
<td>Dr. R. Raghunatha Sarma</td>
<td>Asst. Professor</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Sri N. Uday Kiran*</td>
<td>Asst. Professor</td>
<td>M.Sc., M.Tech.</td>
</tr>
<tr>
<td>Dr. S. Balasubramanian</td>
<td>Asst. Professor</td>
<td>M.Sc., M.Tech., Ph.D.</td>
</tr>
<tr>
<td>Sri Sai Shyam*</td>
<td>Asst. Professor</td>
<td>M.Sc., M.Tech.</td>
</tr>
<tr>
<td>Dr. Krishna Kiran Vamsi Dasu</td>
<td>Asst. Professor</td>
<td>M.Sc., M.Phil., Ph.D.</td>
</tr>
</tbody>
</table>
VISITING FACULTY

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

* also pursuing Doctoral Research

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**

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

**DAY 2: Jul 22 2011**

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

**DAY 3: Jul 23 2011**

<table>
<thead>
<tr>
<th>Name &amp; Designation</th>
<th>Title of the Talk</th>
<th>Title of the Talk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. T Gnana Bhaskar, Dept. of Mathematical Sciences, Florida Institute of Technology, Florida, USA</td>
<td>Fixed point theorems on partially ordered metric spaces applications</td>
<td></td>
</tr>
</tbody>
</table>
Overview

The Year in Review

Academics

Integral Education

University Structure

DEPARTMENT OF MATHEMATICS & COMPUTER SCIENCE

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 Convener: 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 Convener: 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

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
Prof. D Bahuguna, Dept. of Mathematics, Indian Institute of Technology, Kanpur | Finite Difference Methods II
Prof. V Raghavendra, Dept. of Mathematics, Indian Institute of Technology, Kanpur | Linear Elliptic Dirichlet Boundary Value Problems
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.

<table>
<thead>
<tr>
<th>Date</th>
<th>Presenter</th>
<th>Designation</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>17 Dec 2011</td>
<td>Dr. Raghunatha Sarma</td>
<td>Asst. Professor, DMACS, SSSIHL</td>
<td>High Performance Computing, modelling and simulation</td>
</tr>
<tr>
<td>17 Feb 2012</td>
<td>Dr. Pallav Kumar Baruah</td>
<td>Asst. Professor, DMACS, SSSIHL</td>
<td>Data mining without data</td>
</tr>
<tr>
<td>17 Feb 2012</td>
<td>Dr. Raghavendra</td>
<td>Dept. of Mathematics, Indian Institute of Technology, Kanpur</td>
<td>Is One-Oneness is Equivalent to Ono?</td>
</tr>
<tr>
<td>17 Aug 2011</td>
<td>Sri N Uday Kiran</td>
<td>Asst. Professor, DMACS, SSSIHL</td>
<td>Navier Stokes equations: A Million Dollar Open Problem</td>
</tr>
<tr>
<td>26 Nov 2011</td>
<td>Dr. Krishna Kiran Vamsi Dasu</td>
<td>Asst. Professor, DMACS, SSSIHL</td>
<td>Spiritual insights through Mathematics</td>
</tr>
<tr>
<td>17 Sep 2011</td>
<td>Sri N Uday Kiran</td>
<td>Asst. Professor, DMACS, SSSIHL</td>
<td>Information Security: Shaping the way we live</td>
</tr>
<tr>
<td>17 Jul 2011</td>
<td>Prof. V Chandrasekaran</td>
<td>Head, DMACS, SSSIHL</td>
<td>Regularity and Propagation problems in partial Differential Equations</td>
</tr>
</tbody>
</table>

WORKSHOPS ATTENDED

- Sri S Sathyanarayanan attended a workshop on “FOSS Adoption in Education” by C-DAC, Navi Mumbai, 26 Aug 2011.
- 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), SSSHMS 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, Tenscorum, 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.

- Award: Academic Partner, Professor Partnership Program (PPP), NVIDIA.
- 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 CMGD University of Hyderabad, Gouchibowli campus, Hyderabad, 17-21 Oct 2011.

TECHNICAL PROGRAM COMMITTEE MEMBER FOR CONFERENCES:

- IC 2012, 5th International Conference on Contemporary Computing, jointly organized by JIIT INDIA and University of Florida, USA, 6-8 Aug 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.
- 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:
- 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 Redundent 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

<table>
<thead>
<tr>
<th>Granting Agency</th>
<th>Principal Investigator &amp; Title of the Project</th>
<th>Time Period</th>
<th>Total (Rs.) Allocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRDO</td>
<td>Dr. Pallav Kumar Baruah, Study of Nonlinear Interface Problems</td>
<td>16 Jun 2009 to 15 Jun 2012</td>
<td>10.49 Lakhs</td>
</tr>
</tbody>
</table>

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 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 nth 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.

- “Disconjugacy (D) and Non-Oscillation (N) Domains for Nonlinear Singular Interface Problems on Semi Infinite Time Scales” (Paper communicated).
### RESEARCH PROJECTS – ONGOING

<table>
<thead>
<tr>
<th>Granting Agency</th>
<th>Principal Investigator &amp; Title of the Project</th>
<th>Time Period</th>
<th>Total (Rs.) Allocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAE/ NBHM</td>
<td>Qualitative study of solutions of Nonlinear Coupled Ordinary Differential Equations</td>
<td>2010 to 2013</td>
<td>1.9 Lakhs</td>
</tr>
</tbody>
</table>

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.

- “Reduction of an Operator Equation in to an Equivalent Bifurcation Equation Through Schauder’s Fixed Point Theorem.”

### PROJECTS & DISSERTATIONS COMPLETED
#### M. Tech. Dissertations

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

### RESEARCH SCHOLARS

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

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

RESEARCH PUBLICATIONS

Journal Papers


Conference Papers


Chapters in Books

DEPARTMENT OF PHYSICS

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 |
| Professional | M.Sc. Nanoscience and Nanotechnology |
| Research | M.Tech. Applied Optics: Fiber Optics and Digital Processing |

TEACHING FACULTY

Head of Department: Dr. S Siva Sankara Sai

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation</th>
<th>Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. K Venkataramaniah</td>
<td>Professor (Hon.)</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Prof. Debendranath Sahoo</td>
<td>Professor (Hon.)</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Dr. (Mrs.) Dwaraka Rani Rao</td>
<td>Professor (Hon.)</td>
<td>M.Sc., M.Phil., Ph.D.</td>
</tr>
<tr>
<td>Dr. S Siva Sankara Sai</td>
<td>Associate Professor</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Dr. K S Umesh</td>
<td>Associate Professor</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Sri Rajkumar Jain</td>
<td>Associate Professor</td>
<td>M.Sc.</td>
</tr>
<tr>
<td>Dr. O S K S Sastry</td>
<td>Asst. Professor</td>
<td>M.Sc., M.Tech., Ph.D.</td>
</tr>
<tr>
<td>Dr. (Ms.) Deepa Seetharaman</td>
<td>Asst. Professor</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Name</td>
<td>Designation / Institution</td>
<td>Course / Topic Covered</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>----------------------------------------------------</td>
<td>------------------------------------------------</td>
</tr>
<tr>
<td>Dr. R Gowrishankar</td>
<td>Asst. Professor</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Dr. K Vijay Sai</td>
<td>Asst. Professor</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Mrs. C Prathibha*</td>
<td>Asst. Professor</td>
<td>M.Sc., B.Ed., M.Phil.</td>
</tr>
<tr>
<td>Dr. V Sai Muthukumar</td>
<td>Asst. Professor</td>
<td>M.Sc., M.Phil., Ph.D.</td>
</tr>
<tr>
<td>Sri Denny Melkay M George</td>
<td>Asst. Professor</td>
<td>M.Sc., M.Tech.</td>
</tr>
<tr>
<td>Prof. M Mukunda Rao</td>
<td>Adjunct Faculty</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Dr. (Mrs.) Tanu Ratan</td>
<td>Associate Professor (Part-time)</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Dr. S Jagdish Chandra</td>
<td>Asst. Professor</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Dr. N Sai Shankar</td>
<td>Senior Principal Systems Scientist, Broadcom</td>
<td>Wireless and Mobile Communications</td>
</tr>
<tr>
<td>Dr. Chandra Y</td>
<td>University of Massachusetts, Boston, USA</td>
<td>Wireless and Mobile Communications</td>
</tr>
<tr>
<td>Dr. Sivaramakrishnan</td>
<td>Senior Engineering Manager, Analog Devices India Pvt. Ltd., Bangalore</td>
<td>Digital communication and Informative system</td>
</tr>
<tr>
<td>Dr. V Ranga Rao K</td>
<td>Bayer Pharmaceuticals, Germany</td>
<td>Photonic switching and Advanced Networking</td>
</tr>
<tr>
<td>Prof. Thayaparan</td>
<td>Defence R&amp;D Centre, Canada</td>
<td>Applied Optics</td>
</tr>
<tr>
<td>Prof. S Sivaramakrishnan</td>
<td>Senior Engineering Manager, Analog Devices India Pvt. Ltd., Bangalore</td>
<td>Digital communication and Informative system</td>
</tr>
<tr>
<td>Dr. Narender Ailwadi</td>
<td>Alcatel Lucent (formerly AT&amp;T Bells Labs), New Jersey, USA</td>
<td>Photonic Switching and Advanced Networking</td>
</tr>
<tr>
<td>Dr. Sendra Gonzalo Heman</td>
<td>Univ. of Heidelberg, Germany</td>
<td>Optical Fiber communication</td>
</tr>
<tr>
<td>Prof. I Rama Rao</td>
<td>President/CEO, East West Enterprises, USA</td>
<td>Research Scholars assistance – Radar Signal Processing</td>
</tr>
<tr>
<td>Prof. K Madhusudan Rao</td>
<td>Head, Dept. of Physics, Shivohini University, Himachal Pradesh</td>
<td>Photonic Switching and Advanced Networking</td>
</tr>
<tr>
<td>Dr. Varma Vimal</td>
<td>Principal Laser Scientist, Clear Align, Eagleville, Pennsylvania, USA</td>
<td>Applied Optics</td>
</tr>
<tr>
<td>Mr. V S Suresh Rao</td>
<td>Principal Laser Scientist, Clear Align, Eagleville, Pennsylvania, USA</td>
<td>Applied Optics</td>
</tr>
<tr>
<td>Prof. A Venkatachari</td>
<td>Institute of Engineering &amp; Technology, Chennai</td>
<td>Optical Communications</td>
</tr>
<tr>
<td>Mr. V Anand</td>
<td>Department of Physics and Technology, Berhampur</td>
<td>Mathematical Physics, Quantum Chemistry and Group Theory</td>
</tr>
<tr>
<td>Prof. A Venkatachari</td>
<td>Institute of Engineering &amp; Technology, Chennai</td>
<td>Optical Communications</td>
</tr>
<tr>
<td>Prof. K N Sharma</td>
<td>Chingamakha Khetri Leikai, Manipal, Manipur</td>
<td>Physics and Technology of Thin films</td>
</tr>
<tr>
<td>Prof. D V G L N Rao</td>
<td>Department of Physics, University of Massachusetts, Boston, USA</td>
<td>Advanced topics in Photonics Nonlinear Optics</td>
</tr>
</tbody>
</table>

* also pursuing Doctoral Research
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**

<table>
<thead>
<tr>
<th>Name &amp; Designation</th>
<th>Title of the Talk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. R Gowri Shankar, Asst. Professor, Dept. of Physics, SSSIHL</td>
<td>Convener: Welcome address</td>
</tr>
<tr>
<td>Prof. A Sudhir Bhaskar, Director, Prasanthi Nilayam Campus, SSSIHL</td>
<td>Inaugural Address</td>
</tr>
<tr>
<td>Prof. A M Rao, Clemson University, South Carolina, USA</td>
<td>Keynote Address: Graphene Photonics &amp; Optoelectronics</td>
</tr>
<tr>
<td>Prof. V Lakshminarayan, Raman Research Institute, Bangalore</td>
<td>Disc like liquid crystals for Molecular Electronics and Photonic applications</td>
</tr>
<tr>
<td>Prof. B Raghavendra Prasad, Indian Institute of Astrophysics (IIA), Bangalore</td>
<td>Bio-medical Applications of Adaptive Optics</td>
</tr>
<tr>
<td>Dr. B V Sarada, International Advanced Research Centre for Powder Metallurgy and New Materials (ARC), Hyderabad</td>
<td>Electrochemical synthesis and Characterization of Nanostructured materials</td>
</tr>
<tr>
<td>Prof. S Neeleshwar, Guru Gobind Singh Indraprastha University, New Delhi</td>
<td>Thermoelectric materials</td>
</tr>
</tbody>
</table>

**DAY 2: Nov 29 2011**

<table>
<thead>
<tr>
<th>Name &amp; Designation</th>
<th>Title of the Talk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. M V Shankar, Honeywell Technologies</td>
<td>Photonic Metamaterials - Challenges, Bottlenecks and Opportunities</td>
</tr>
<tr>
<td>Dr. (Mrs.) Tanu Rattan, Nanonano Solutions, Bangalore</td>
<td>Ceramic Nanophores and their applications</td>
</tr>
<tr>
<td>Prof. B K Panigrahi, Indias Gandhi Centre for Atomic Research, Kalpakam, Tamil Nadu</td>
<td>Surface Plasmon Resonance &amp; Amplification of Photoluminescence</td>
</tr>
</tbody>
</table>

**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 workshop 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.
### 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 Academy 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.
- Prof. Dr. K Venkataramanliah, 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.
- 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. V K Sastri, Prof. K Venkataraman 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.

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### DEPARTMENT OF PHYSICS

**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. D 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 Siva RamaKrishnan | MPI, Heidelberg, Germany | Intense laser ionization of atomic systems: Expectations and surprises
21 Jan 2012 | Dr. O S K 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. Sendha 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.
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 fur Schwerionenforschung, Darmstadt, Germany, 1 Apr to 31 May 2012.

Achievement in National level exams:

<table>
<thead>
<tr>
<th>Name of the Candidate</th>
<th>GATE *</th>
<th>JEST **</th>
</tr>
</thead>
<tbody>
<tr>
<td>Avinash K S</td>
<td>769</td>
<td></td>
</tr>
<tr>
<td>Amrith Krishnan</td>
<td></td>
<td>159</td>
</tr>
</tbody>
</table>

*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 thermoelastic performance of nanostructured Bismuth Telluride and Lead Telluride Nanocomposites grown via novel solvothermal nano-plating 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.
- 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 CBER and FDA in the area of “Rapid Diagnosis of Mycobacterium tuberculosis using europium based nanoparticles.”
- Prof. K Venkataramaniah and Dr. B E Pradeep of the Dept. of Biosciences at SSSIHL are collaborating with Dr. Reji Phillip of Light & Matter Physics Group, RRI.

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 Nanosceince 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.
THREAT AREAS OF RESEARCH

Along with the fundamentals of various branches of traditional Physics, the department has identified the following threat areas for focused 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

<table>
<thead>
<tr>
<th>Granting Agency</th>
<th>Principal Investigator &amp; Title of the Project</th>
<th>Time Period</th>
<th>Total (Rs.) Allocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>DST</td>
<td>Design and Development of Bacteriorhodopsin based optical filters for processing medical images.</td>
<td>2008 - 2011</td>
<td>16.8 Lakhs</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Granting Agency</th>
<th>Principal Investigator &amp; Title of the Project</th>
<th>Time Period</th>
<th>Total (Rs.) Allocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRDO</td>
<td>Real time motion compensation image enhancement and feature extraction of moving targets in ISAR</td>
<td>2011 – 2014</td>
<td>24.84 Lakhs</td>
</tr>
</tbody>
</table>

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.
**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.

**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 environmentally friendly.

---

### Deliverables: Evaluating nanomaterials for efficient thermoelectric performance

**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,Te and PbTe. While synthesis of the materials would be carried out at SSSIHL, the characterisation facilities available in UGC-DAE-CSIR 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.

---

### Deliverables: Exploring Bacteriorhodopsin based optical power limiters for protecting sensitive detectors

**Scope:** Bacteriorhodopsin (bR), a photosynthetic protein, in the purple membrane of a bacteria called *Haloibacterium 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 of bR films as efficient optical power limiters. It will also compare the performance of bR films with other materials.

---

### Deliverables: Studying the performance of Bacteriorhodopsin based OPL materials

**Scope:** Bacteriorhodopsin based OPL material 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 of bR films as efficient optical power limiters. It will also compare the performance of bR films with other materials.
DOCTORAL RESEARCH SCHOLARS

<table>
<thead>
<tr>
<th>Scholar Name</th>
<th>Area of Research</th>
<th>Research Supervisor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sri M Muralikrishna</td>
<td>Nanomaterials for Thermoelectric applications</td>
<td>Prof. K Venkataramanabiah</td>
</tr>
<tr>
<td>Sri Benoy Anand</td>
<td>Study of nonlinear optical properties of</td>
<td>Dr. S Siva Sankara Sai and Dr.</td>
</tr>
<tr>
<td></td>
<td>Nanostructured materials</td>
<td>Reji Philip, Raman Research</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Institute, Bangalore</td>
</tr>
<tr>
<td>Sri P Suresh</td>
<td>Image enhancement, feature extraction and motion</td>
<td>Prof. K Venkataramanabiah</td>
</tr>
<tr>
<td></td>
<td>compensation using time frequency analysis</td>
<td></td>
</tr>
<tr>
<td>Sri Sai Kiran Aditha</td>
<td>Synthesis, characterisation and evaluation of</td>
<td>Prof. K Venkataramanabiah</td>
</tr>
<tr>
<td></td>
<td>Cu2ZnSnS4, for photovoltaic applications.</td>
<td></td>
</tr>
<tr>
<td>Sri Sandeep Patnaik</td>
<td>Pharmaceutical Nanotechnology</td>
<td>Prof. K Venkataramanabiah</td>
</tr>
<tr>
<td>Sri L A Avinash Chunduri</td>
<td>Fluorescent Nanomaterials for Bio-medical applications</td>
<td>Prof. K Venkataramanabiah</td>
</tr>
</tbody>
</table>

M.Phil. SCHOLARS

<table>
<thead>
<tr>
<th>Scholar Name</th>
<th>Area of Research</th>
<th>Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sri Pradyumma Mulppur</td>
<td>Plasmonics - Surface Plasmon Coupled Emission for</td>
<td>Prof. K Venkataramanabiah</td>
</tr>
<tr>
<td></td>
<td>sensing applications</td>
<td></td>
</tr>
</tbody>
</table>

STUDENT DISSERTATIONS COMPLETED

M.Tech. (Applied Optics)

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

M.Sc. (Physics)

<table>
<thead>
<tr>
<th>Name</th>
<th>Project Title</th>
<th>Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amritha Krishna S</td>
<td>Adaptive optics and its applications</td>
<td>Dr. S Siva Sankara Sai</td>
</tr>
<tr>
<td>Avinash K S</td>
<td>Linearity and resolution of Gamma camera</td>
<td>Prof. D Sahoo</td>
</tr>
</tbody>
</table>
RESEARCH PUBLICATIONS

Journal Papers


Conference Papers


• 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.


**Chapters in Books**

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation</th>
<th>Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. Chelli Janardhana</td>
<td>Professor (Hon.)</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Dr. S Jagadeeswara Rao</td>
<td>Associate Professor</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Dr. C N Sundaresan</td>
<td>Associate Professor</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Dr. G Nageswara Rao</td>
<td>Associate Professor</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Dr. T Ravikumar</td>
<td>Associate Professor</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Dr. K S Narahari</td>
<td>Associate Professor</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Dr. (Ms.) Rajni Bhandari</td>
<td>Asst. Professor</td>
<td>M.Sc., M.Ed., Ph.D.</td>
</tr>
<tr>
<td>Dr. (Mrs.) G Pavana Kumari</td>
<td>Asst. Professor</td>
<td>M.Sc., M.Phil., Ph.D.</td>
</tr>
<tr>
<td>Dr. (Mrs.) Sahida Sharma</td>
<td>Asst. Professor</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Dr. B Sivakumar</td>
<td>Asst. Professor</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Dr. R Sai Sathish</td>
<td>Asst. Professor</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Dr. J Krishna Kiran Kumar</td>
<td>Asst. Professor</td>
<td>M.Sc., M.B.A, Ph.D.</td>
</tr>
<tr>
<td>Dr. D Rajesh Babu</td>
<td>Asst. Professor</td>
<td>M.Sc., Ph.D.</td>
</tr>
</tbody>
</table>
VISITING FACULTY

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation / Institution</th>
<th>Course / Topic Covered</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. M Narayana Murthy</td>
<td>National Institute of Science &amp; Technology, Berhampur, Orissa</td>
<td>Mathematics for Chemists to PG students</td>
<td>1-29 Jun 2011</td>
</tr>
<tr>
<td>Dr. R.C Gopalakrishnan</td>
<td>Texas Tech University, Lubbock, Texas USA</td>
<td>Instrumental Methods</td>
<td>20 Jul to 7 Aug 2011</td>
</tr>
<tr>
<td>Prof. Somenath Mitra</td>
<td>New Jersey Institute of Technology, Newark, New Jersey, USA</td>
<td>Interaction with research scholars and research proposals</td>
<td>4-18 Aug 2011</td>
</tr>
<tr>
<td>Dr. V Ranga Rao Kanikanti</td>
<td>Bayer HealthCare AG, Germany</td>
<td>Drug Design and Pharmacodynamics to PG students</td>
<td>3-25 Dec 2011</td>
</tr>
<tr>
<td>Dr. R K K M Jayanthy</td>
<td>RTI International, North Carolina, USA</td>
<td>Environmental Chemistry</td>
<td>17 Dec 2011</td>
</tr>
<tr>
<td>Prof. P Natarajan</td>
<td>University of Madras, Chennai</td>
<td>Chemical Kinetics and Fast reactions</td>
<td>15-22 Feb 2012</td>
</tr>
</tbody>
</table>

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**

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

**SESSION 1**

<table>
<thead>
<tr>
<th>Chairperson</th>
<th>Prof. Somenath Mitra</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Nanduri Srinivas, Research Director, Medicinal Chemistry, Aurigene Discovery Technologies Ltd., Bangalore. (Alumnus, SSSIHL)</td>
<td>Andrographolide, A Versatile Natural product</td>
</tr>
<tr>
<td>Dr. T Siva Kumar, Scientist, Aurigene Discovery Technologies Ltd., Bangalore. (Alumnus, SSSIHL)</td>
<td>Alzheimer disease: tau aggregation inhibitors</td>
</tr>
</tbody>
</table>

**SESSION 2**

<table>
<thead>
<tr>
<th>Chairperson</th>
<th>Dr. S Jagadeeswara Rao</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. G Jayaraman, School of Biosciences and Technology, VIT University, Vellore, Tamil Nadu</td>
<td>Analysis of Protein Structures by Nuclear Magnetic Resonance Spectroscopy</td>
</tr>
</tbody>
</table>

**SESSION 3**

<table>
<thead>
<tr>
<th>Chairperson</th>
<th>Dr. B. Siva Kumar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Sritulasi Karri Gopala Krishnan, Asst. Professor, Department of Internal Medicine, Texas Tech. University Health Sciences Centre, Lubbock, Texas, USA</td>
<td>Effect of Methotrexate an anti cancer drug on female reproductive tract of Albino rats</td>
</tr>
</tbody>
</table>

**SESSION 4**

<table>
<thead>
<tr>
<th>Chairperson</th>
<th>Prof. G Jayaraman</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. V Lakshminarayana, Professor, Soft Condensed Matter Laboratory, Raman Research Institute, Bangalore</td>
<td>Electrochemistry of nanomaterials for biosensing and catalysis</td>
</tr>
</tbody>
</table>

**SESSION 5**

<table>
<thead>
<tr>
<th>Chairperson</th>
<th>Prof. V. Lakshminarayanan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Sritulasi Karri Gopala Krishnan, Asst. Professor, Department of Internal Medicine, Texas Tech. University Health Sciences Centre, Lubbock, Texas, USA</td>
<td>Effect of Methotrexate an anti cancer drug on female reproductive tract of Albino rats</td>
</tr>
</tbody>
</table>

**SESSION 6**

<table>
<thead>
<tr>
<th>Chairperson</th>
<th>Dr. G. Nageswara Rao</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. P Suresh Kumar, Post Doctoral Fellow, Indian Institute of Science, Bangalore, India</td>
<td>Electron transfer studies in self-organized columnar hexagonal lyotropic liquid crystalline phase</td>
</tr>
<tr>
<td>Dr. Dinesh Jagadeeshan, Post Doctoral Fellow at the University of Toronto, Canada</td>
<td>Lab on a chip</td>
</tr>
</tbody>
</table>

**SESSION 7**

<table>
<thead>
<tr>
<th>Chairperson</th>
<th>Prof. Sri Govind Pratap Singh</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Gopal Coimbatore, Adjunct Graduate Faculty, Dept. of Environmental Toxicology, Texas Tech University, Texas, USA. (Alumnus, SSSIHL)</td>
<td>Side Chain liquid Crystalline Polymers</td>
</tr>
</tbody>
</table>
SPECIAL ACHIEVEMENTS

Achievement in National level exams

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

* 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 Medical 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

<table>
<thead>
<tr>
<th>Granting Agency</th>
<th>Principal Investigator &amp; Title of the Project</th>
<th>Time Period</th>
<th>Total (Rs.) Allocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>UGC</td>
<td>Development of new semi-conducting and fluorescent nanomolecules based on oligothiophenes.</td>
<td>Mar 2009 to Mar 2011</td>
<td>1 Lakh</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Granting Agency</th>
<th>Principal Investigator &amp; Title of the Project</th>
<th>Time Period</th>
<th>Total (Rs.) Allocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSIR</td>
<td>Supramolecular helicates, sub-component assembly and dynamic investigations.</td>
<td>Aug 2008 to Dec 2012</td>
<td>8.1 Lakhs</td>
</tr>
</tbody>
</table>

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.

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.

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.

RESEARCH PROJECTS – ONGOING

<table>
<thead>
<tr>
<th>Granting Agency</th>
<th>Principal Investigator &amp; Title of the Project</th>
<th>Time Period</th>
<th>Total (Rs.) Allocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Biotechnology</td>
<td>Application of plasmonic technologies and microbes-fortified biosorbents for efficient integrated bioprocessing.</td>
<td>1 Mar 2011 to 29 Feb 2016</td>
<td>Rs. 74.4 Lakhs</td>
</tr>
</tbody>
</table>

Scope: The main goal of this proposal is to develop low-cost technologies for enhanced bioethanol production from renewable resources than current existing systems.

Deliverables:
- 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.

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.
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:**
- 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 Trace Levels using Novel Chemosensors | 1 Feb 2011 to 31 Feb 2013 | 0.95 Lakhs

**Scope:** *Calocybe indica* 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 nutraceutically 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
--- | --- | --- | ---
UGC | Dr. G Nageswara Rao | Antioxidant activity and Nutraceutical potential of indigenous edible mushroom (*Calocybe indica*) | 1 Feb 2010 to 1 Feb 2013 | 4.43 Lakhs

**Scope:** *Calocybe indica* 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 nutraceutically 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.
M.Phil. SCHOLARS

<table>
<thead>
<tr>
<th>Scholar Name</th>
<th>Thesis Title</th>
<th>Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sri Sai Giridhar Sarma Kandanur</td>
<td>Solid form Characterisation and Molecular complexation studies of Forskolin</td>
<td>Dr. K Anil Kumar</td>
</tr>
<tr>
<td>Sri R Sai Siddhardha</td>
<td>Novel synthesis of nanostructured materials for catalytic and sensing applications</td>
<td>Dr. R Sai Sathish</td>
</tr>
</tbody>
</table>

PROJECTS AND DISSERTATIONS COMPLETED

M.Sc. Chemistry Dissertations

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

RESEARCH PUBLICATIONS

Journal Papers

- 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.
Conference Papers


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 a solid knowledge of 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
- (b) Mycology and Plant Pathology

Research

M.Phil.  Ph.D.

TEACHING FACULTY

Head of Department: Prof. S Krupanidhi

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

<table>
<thead>
<tr>
<th>Name &amp; Designation</th>
<th>Title of the Talk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. S Kumar</td>
<td>Welcome and Introductory remarks</td>
</tr>
<tr>
<td>Sri K Rama Rao, Indian Immunologicals Ltd.</td>
<td>Inaugural Address</td>
</tr>
<tr>
<td>Dr. B E Pradeep, Asst. Professor, Dept. of Biosciences, SSSIHL</td>
<td>Key Note Address</td>
</tr>
<tr>
<td>Dr. (Mrs.) Vijayalakshmi Venkatesan, Deputy Director, National Institute of Nutrition, Hyderabad</td>
<td>Vote of Thanks</td>
</tr>
<tr>
<td>Dr. D C Sundaresh, Professor of Orthopaedics and Medical Director, M S Ramaiah College Hospital, Bangalore</td>
<td>Stem cells and their applications</td>
</tr>
<tr>
<td>Dr. Prakash Khanchandani, Orthopedic surgeon, SSSIHMS</td>
<td>Osteocartilaginous defects</td>
</tr>
<tr>
<td>Dr. K Rama Rao, Indian Immunologicals Ltd., Hyderabad</td>
<td>Autologous Chondrocyte Implantation</td>
</tr>
<tr>
<td>Dr. (Miss) Vijeyakumary Vijayarathnam, Teaching Assistant, M.Sc., Ph.D.</td>
<td>Vaccines and Vaccinations</td>
</tr>
</tbody>
</table>

VISITING FACULTY

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation / Institution</th>
<th>Course / Topic Covered</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. Anupam Dixit</td>
<td>Department of Botany, Allahabad University, Allahabad, U.P.</td>
<td>Molecular Systematics and Plant Taxonomy</td>
<td>1 Jun to 1 Jul 2011</td>
</tr>
<tr>
<td>Dr. Scot Doughman</td>
<td>University of North Carolina, Chapel Hill, USA</td>
<td>Molecular Biology and Molecular Evolution</td>
<td>12-22 Jun 2011</td>
</tr>
<tr>
<td>Dr. Arun Sreekumar</td>
<td>Department of Molecular and Cell Biology, Baylor College of Medicine, Houston USA</td>
<td>Interaction with Ph.D. students and research proposals</td>
<td>6-12 July 2011</td>
</tr>
<tr>
<td>Prof. Raj Raghupathy</td>
<td>Dept. of Microbiology, Kuwait University, Kuwait</td>
<td>Interaction with students and interaction to strengthen practicals for immunogenetics experiments</td>
<td>1-6 Aug 2011 and 23-29 Dec 2011</td>
</tr>
<tr>
<td>Dr. (Mrs.) R Malathi</td>
<td>Centre for Bio-Technology, Anna University, Chennai</td>
<td>Structural Bioinformatics</td>
<td>19-20 Dec 2011</td>
</tr>
<tr>
<td>Dr. Ganesh Iyer</td>
<td>Dept. of Life Sciences, Ramnarain Rula College, Mumbai</td>
<td>Biotechnology to Undergraduate students at Brindavan Campus</td>
<td>27-31 Dec 2011</td>
</tr>
<tr>
<td>Dr. Manu Jatana</td>
<td>CEO, Medaids Lifesciences, Chandigarh</td>
<td>Immunology and practical sessions</td>
<td>17-25 Jan 2012</td>
</tr>
<tr>
<td>Prof. M Sivakumar</td>
<td>University of Wollongong, Australia</td>
<td>Environmental Biotechnology to PG students</td>
<td>26 Jan to 12 Feb 2012</td>
</tr>
<tr>
<td>Prof. Govind Rao</td>
<td>Director, Centre for Advanced Sensor Technology, University of Maryland, Baltimore Country, USA</td>
<td>Research Supervisor to Doctoral Research Scholars</td>
<td>25-30 Aug 2011 and 12-14 Feb 2012</td>
</tr>
<tr>
<td>Prof. George Ordal</td>
<td>Dept. of Biochemistry, University of Illinois, USA</td>
<td>Biochemistry – Enzymology to PG students</td>
<td>26 Nov 2011 to 4 Jan 2012</td>
</tr>
</tbody>
</table>
### DAY 2: Jan 27 2011, Technical Session I

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

### DAY 3: Jan 28 2011, Technical Session II

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

### DAY 4: Jan 29 2011, Technical Session III

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

### DAY 5: Jan 30 2011, Technical Session IV

<table>
<thead>
<tr>
<th>Name &amp; Designation</th>
<th>Title of the Talk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. B E Pradeep (Asst. Professor), &amp; Sri Aswath Narayan (Doctoral Research Scholar), Dept. of Biosciences, SSSIHL</td>
<td>Preparation of Chondrocytes from Cartilage</td>
</tr>
<tr>
<td>Dr. R Manjunath, Indian Institute of Science, Bangalore</td>
<td>Immunological techniques and applications</td>
</tr>
<tr>
<td>Dr. H V Batra, Defence Food Research Laboratory, Mysore, Karnataka</td>
<td>Molecular approaches for detection and identification of pathogens</td>
</tr>
<tr>
<td>Dr. R Manjunath, Indian Institute of Science, Bangalore</td>
<td>Video presentation on Bhagawan and vote of thanks</td>
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</tbody>
</table>

### DAY 5: Jan 30 2011, Technical Session IV (cont.)

<table>
<thead>
<tr>
<th>Name &amp; Designation</th>
<th>Title of the Talk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. D N Rao, Indian Institute of Science, Bangalore</td>
<td>Q &amp; A session regarding career opportunities in biological sciences</td>
</tr>
</tbody>
</table>
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

11 Feb 2012 Sri S Aswath Narayan Research Scholar, Dept. of Biosciences, SSSIHL Gold nanoparticles enhance the anti-leukemia action of a 6-Mercaptopurine chemotherapeutic agent

11 Feb 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 Gireesh 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, ethnobotanical survey, tissue-culture, secondary metabolites, anti-microbial, anti-oxidant and phytochemical analyses of medical plants.
### RESEARCH PROJECTS – COMPLETED

<table>
<thead>
<tr>
<th>Granting Agency</th>
<th>Principal Investigator &amp; Title of the Project</th>
<th>Time Period</th>
<th>Total (Rs.) Allocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBT</td>
<td>Bioinformatics Infrastructural Facility</td>
<td>2008-2012</td>
<td>24 Lakhs</td>
</tr>
</tbody>
</table>

**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 sustainability is an important factor for the wellbeing of humans.

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

**Scope:** Filaria 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 to 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

<table>
<thead>
<tr>
<th>Granting Agency</th>
<th>Principal Investigator &amp; Title of the Project</th>
<th>Time Period</th>
<th>Total (Rs.) Allocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>UGC SAP DRS Level II</td>
<td>Prof. S Krupanidhi Special assistance program: 1. Plant cell, tissue culture and its applications 2. Immunogenetics</td>
<td>1 Apr 2010 to 31 Mar 2015</td>
<td>71.85 Lakhs</td>
</tr>
</tbody>
</table>

**Scope:**
- 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:**
- 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:**
- 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 sustainability is an important factor for the wellbeing of humans.
M.Phil. Scholars

<table>
<thead>
<tr>
<th>Scholar Name</th>
<th>Thesis Title</th>
<th>Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sri Vijaya Sai A</td>
<td>KIR and HLA – C genotyping in the type 2 diabetes subjects from the population of the Puttaparthi region</td>
<td>Prof. S Krupanidhi</td>
</tr>
</tbody>
</table>

Projects and Dissertations Completed

M.Sc. Biosciences Dissertations

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

DOCTORAL RESEARCH SCHOLARS

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

Journal Papers


Conference Papers

- Sai Murali R S and Basavaraju R (7-9 Jul 2011) Ecomorphometric studies on Adhatoda vasica Nees in the Malabar area of Western Ghat, India. International Conference on Impact of Physical Sciences on Biology, Queen Mary’s College, Chennai.

Books


Chapters in Books

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

<table>
<thead>
<tr>
<th>Undergraduate</th>
<th>Postgraduate</th>
<th>Research</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.Sc. Food Technology</td>
<td>M.Phil.</td>
<td>Ph.D.</td>
</tr>
</tbody>
</table>

TEACHING FACULTY

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation</th>
<th>Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. (Mrs.) Rashmi Kapoor</td>
<td>Professor</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Dr. (Mrs.) B Andallu</td>
<td>Associate Professor</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Dr. (Miss) N Srividya</td>
<td>Asst. Professor</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Mrs. M Srijaya*</td>
<td>Asst. Professor</td>
<td>M.Sc.</td>
</tr>
<tr>
<td>Mrs. A Sumana*</td>
<td>Asst. Professor</td>
<td>M.Sc.</td>
</tr>
</tbody>
</table>

* 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.
RESEARCH PROJECTS – ONGOING

<table>
<thead>
<tr>
<th>Granting Agency</th>
<th>Principal Investigator &amp; Title of the Project</th>
<th>Time Period</th>
<th>Total (Rs.) Allocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>UGC</td>
<td>Mrs. M Srijaya: Impact of gamma irradiation on shelf life extension of selected fruits and vegetables grown in Anantapur District</td>
<td>12 Jan 2011 to 11 Jan 2013</td>
<td>2 Lakhs</td>
</tr>
</tbody>
</table>

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

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

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

### Research Publications

#### Journal Papers

### Projects and Dissertations Completed

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

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


**Conference Papers**


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.


### Books


### Chapters in Books


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

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

1. **The Year in Review**
2. **Academics**
3. **Integral Education**
4. **University Structure**

### Academics

- **Sri R Renju**
  - Information Scientist
  - B.E., M.B.A.

- **Dr. Deepak Anand**
  - Asst. Professor
  - M.B.A., Ph.D.

- **Dr. N Niranjani**
  - 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., PGBA

- **Miss Sharanya Balasubramanian**
  - Asst. Professor
  - B.Com., M.B.A.

- **Sri B Chandrasekhar**
  - Asst. Professor
  - B.E. (ECE), M.B.A., M.Phil.

- **Sr. Advocate (Retd.), Maharashtra High Court, Mumbai**
  - Business Law and Awareness Course

- **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)
  - CSR and Sustainable Supply Chain Management
  - Winter Semester 2011/12

- **Senior Management Consultant, IBM Global Business Services**
  - Research Methods for Managers and Business Analysis for IT Projects
  - Winter Semester 2011/12

- **Sr. Advocate, Tata Capital, Mumbai**
  - Financial Projections for new ventures - Guidance for Financial Projects
  - 18 Jun 2011

- **Sr. Advocate, Marketing and R&D, New World Pasta, Pennsylvania, USA**
  - Marketing Management
  - 27-29 Jul 2011

- **V.P., Marketing and R&D, New World Pasta, Pennsylvania, USA**
  - Managing challenges
  - 30 Jul 2011

- **Director/CEO, William Gumpert Foundation, Enchintas, California, USA**
  - Self Development and Cross Cultural Management
  - 24 Aug 2011 to 15 Sep 2011

- **President, Rane Brake Lining Ltd., Chennai**
  - Operations Managements Colloquium lecture
  - 27-29 Aug 2011

- **Freelance consultant, Geographic Information System (GIS)**
  - Application of GIS in solving urban problems related to Environment
  - 9-10 Sep 2011

- **Owner, Proprietor and Chief Consultant, Making Monday More, Mumbai**
  - Career Management, Calculation of Excise duty and Capital budgets
  - 22 Sep 2011

- **CEO, Techno E Group, Hyderabad**
  - Technological solutions for Rural Development
  - 1 Dec 2011

- **Chairman, Srivinvasan Services Trust, Chennai**
  - Role of CRS in Rural Development
  - 8 Dec 2011

- **Retired Economics Faculty from National University of Singapore**
  - National Development Accounting
  - 13-15 Dec 2011

- **Director, National Dairy Development Board, Anand, Gujarat**
  - Sectoral analysis of agriculture & power sectors in India of NPRD
  - 27 Dec 2011

- **Vice-President, Godrej & Boyce Mfg. Co. Ltd., Mumbai**
  - Colloquium lecture on Role of Supply Chain Management in a major Indian Corporation
  - 28 Jan 2012

- **Chief Manager and Pune Branch Head, Indian Bank**
  - Colloquium lecture on the Banking Industry
  - 18 Feb 2012

- **Chief of Neurology, SSSHIMS, Whitefield, Bangalore**
  - Managing stress and transformation – a Neurologists perspective managing change
  - 21 Jan 2012

- **Chief Operating Officer, Co-Retail, Heritage Foods, Hyderabad**
  - Colloquium lecture on Challenges in Retailing
  - 18 Feb 2012

- **Vice-President, M/s. TVS Motor Company, Hosur**
  - Industrial Relations and Legal Framework
  - 18 Feb 2012

- **Vice-President, Petro Chemicals, Mumbai**
  - Case Study on Strategy Development
  - 29 Feb 2012

- **Business Consultant, Chennai**
  - Business Strategy and Experimental Learning
  - 2 Mar 2012

- **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

<table>
<thead>
<tr>
<th>Name &amp; Designation</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sri Kishore Dalal, Senior Manager, Tata Administrative Services, Group HR</td>
<td>Coordinator</td>
</tr>
<tr>
<td>Sri Sabarinadhan K S, Branding Manager, Tata Administrative Services</td>
<td>Coordinator</td>
</tr>
<tr>
<td>Sri Aditya Ahuja, Head, Tata Administrative Services, Group HR</td>
<td>Panelist</td>
</tr>
<tr>
<td>Sri P K Mohankumar, Chief Operating Officer, Gateway – Indian Hotels Ltd.</td>
<td>Panelist</td>
</tr>
<tr>
<td>Sri S Ravi Kant, Chief Operating Officer, Eyewear Business &amp; Sr. Vice President Corporate Communications, Titan</td>
<td>Panelist</td>
</tr>
<tr>
<td>Sri Radhakrishnan Nair, Head, Talent Acquisition Group HR</td>
<td>Panelist</td>
</tr>
</tbody>
</table>

STUDENT TEAM PRESENTATIONS (MBA / MBA Finance Students)

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

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.

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

WORKSHOPS ATTENDED

Sri R Renju

- 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 Millennium 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

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 Discusant 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 discusant 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

<table>
<thead>
<tr>
<th>Scholar Name</th>
<th>Qualification</th>
<th>Area of Research</th>
<th>Research Supervisor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Shashank Shah</td>
<td>B.Com., MBA, M.Phil., Ph.D.</td>
<td>Leadership Perceptions on Business Management and Stakeholder Welfare: A Qualitative Study of Corporate India</td>
<td></td>
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</tbody>
</table>

DOCTORAL RESEARCH SCHOLARS

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

M.Phil. SCHOLARS

<table>
<thead>
<tr>
<th>Scholar Name</th>
<th>Area of Research</th>
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<tbody>
<tr>
<td>Sri K Sai Chittaranjan</td>
<td>A Study of Resilient Companies with Sustained Growth and Their Strategies</td>
<td>Prof. U S Rao and Dr. B Sai Giridhar</td>
</tr>
<tr>
<td>Aman Jhaveri</td>
<td>Evolution of Institutions and Markets: A Study of India, China and Japan</td>
<td>Prof. A Anantharaman and Sri Arvind Hejmadi</td>
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</table>
PROJECTS & DISSERTATIONS COMPLETED

MBA Projects

<table>
<thead>
<tr>
<th>Scholar Name</th>
<th>Project Title</th>
<th>Supervisor(s)</th>
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</thead>
<tbody>
<tr>
<td>Anirudh C</td>
<td>Relationship between Human Resource Development Climate and Select Outcome Variables: A Study of Select IT Units</td>
<td>Prof. R Kumar Bhaskar</td>
</tr>
<tr>
<td>Bharani Prasad M S</td>
<td>Organizations: A Case Study of Sri Sathya Sai Institute of Higher Medical Sciences at Prasanthigam, Andhra Pradesh and Bangalore, Karnataka</td>
<td>Prof. R Kumar Bhaskar</td>
</tr>
<tr>
<td>Deepachakrarvathy S</td>
<td>Human Resource Issues and Challenges in Small Scale Industries in Coimbatore and Tirupur</td>
<td>Prof. R Kumar Bhaskar</td>
</tr>
<tr>
<td>Abhishek Kumar</td>
<td>A Study of Mergers and Acquisitions As A Tool for Value Creation</td>
<td>Dr. B Sai Giridhar</td>
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<tr>
<td>Bhat Ashish Gireesh</td>
<td>Efficiency of Indian Stock Market – A Study</td>
<td>Dr. B Sai Giridhar</td>
</tr>
<tr>
<td>Sagar Krishna K</td>
<td>Rural BPO: Prospects and Challenges in India</td>
<td>Dr. B Sai Giridhar</td>
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<tr>
<td>Sai Aditya S</td>
<td>Evaluation of Indian banks: imperatives for going global</td>
<td>Sri V N Prakash Sharma</td>
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<tr>
<td>Nagadeep K</td>
<td>Prediction of IN-VIX and Option Price Using Neural Networks and Black Scholes Model</td>
<td>Prof. U S Rao and Dr. S Subramanian</td>
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<tr>
<td>Pradeep Kumar A</td>
<td>Innovative Solutions to Intractable Problems</td>
<td>Prof. U S Rao</td>
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<tr>
<td>Sriram Kumar K</td>
<td>Lean Management in Service Sector</td>
<td>Prof. U S Rao</td>
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<tr>
<td>Vivek S</td>
<td>Cellular Manufacturing Design Solutions for Multi Product and Varying Demands Situations</td>
<td>Prof. U S Rao</td>
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<tr>
<td>Pratim Banerjee</td>
<td>Social Impact of Rural BPOs – A Framework for Analysis and Development</td>
<td>Prof. A Sudhir Bhaskar</td>
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<tr>
<td>Kannan C V</td>
<td>Dynamics of Career Anchors</td>
<td>Sri Viney K Thakar</td>
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<tr>
<td>Kartikeya Dwivedi</td>
<td>Comparative Study of Career Management Programmes: Indian and Overseas Organizations</td>
<td>Sri Viney Thakar</td>
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<tr>
<td>Venkatakrishnan K S</td>
<td>Influence of Organizational Culture on Employee Commitment in IT Industry</td>
<td>Sri Viney Thakar</td>
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<tr>
<td>Raghav Raj Joshi</td>
<td>The Role of Personal Ethics in Nepalese Financial Institutions</td>
<td>Dr. Deepak Anand</td>
</tr>
<tr>
<td>Sidharth Haridas</td>
<td>Corporate Social Responsibility and its Impact on Quality of Work Life of Employees Working in IT Companies</td>
<td>Dr. Deepak Anand</td>
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<tr>
<td>Mohit Khanna</td>
<td>Exploring the effect of Organizational Change on select outcome variables in an Indian business context</td>
<td>Dr. N Niranjan</td>
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<tr>
<td>Biraj Lama</td>
<td>Formulating Strategies for a Multi-Brand Retail Store in India – a Customer Retention Perspective</td>
<td>Sri Arvind Hejmadi</td>
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<tr>
<td>Nagarjun G</td>
<td>Understanding the Factors that Influence the Attitude of Consumers in Ordering Breakfast Online</td>
<td>Sri Arvind Hejmadi</td>
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<tr>
<td>Gopi Krishna J</td>
<td>An Analysis of Indian Pharmaceutical Industry and the Need for Green Initiatives in the Context of Environmental Sustainability</td>
<td>Sri Arvind Hejmadi</td>
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<tr>
<td>Sai Subba Rao J</td>
<td>Customer Retention Challenge in the Context of Mobile Number Portability in India</td>
<td>Sri Arvind Hejmadi</td>
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<tr>
<td>Sivaramakrishnan K</td>
<td>Role of Dealers in Marketing Strategies of Air Conditioning Manufacturers – A Study</td>
<td>Sri Arvind Hejmadi</td>
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<tr>
<td>Tarrung Kapur</td>
<td>Financial Sector Regulation for Growth and Stability</td>
<td>Dr. S Subramanian</td>
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<tr>
<td>Behara Sitaram</td>
<td>Assessing the Viability of Cocrystallisation Technology in Current Indian Pharmaceutical Industry</td>
<td>Dr. Ramaier Siriram</td>
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<tr>
<td>Borkar Rahul Dinesh</td>
<td>Analysis of Foreign institutional investments into India during post reform period</td>
<td>Sri G Raghavender Raju</td>
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<tr>
<td>K Adwait Shashank</td>
<td>A Study of Consumer Perceptions of Branded Cell Phones in India</td>
<td>Prof. Shiv R Pandit</td>
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<tr>
<td>Rohit Chhabra</td>
<td>A Study of Triple Bottom Line Practices At Select TATA Companies</td>
<td>Prof. Shiv R Pandit</td>
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<tr>
<td>Soumyajit Ghosh</td>
<td>India’s Exchange Rate Behaviour and Management: A Post Reform Period Analysis</td>
<td>Sri G Raghavender Raju</td>
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</table>

MBA Finance Projects

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

**RESEARCH PUBLICATIONS**

**Journal Papers**


- **Shah S (2012)** Interlinking Stakeholder Welfare and Corporate Success in a Family-owned Organisation. *Indian Management Journal of the All India Management Association (AIMA).*


**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 (7 Nov 2011) Corporate Social Responsibility in India. Special Seminar at the Centre for Corporate Social Responsibility, Copenhagen Business School, Copenhagen, Denmark.


Chapters in Books


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 Secretoryship.
- 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

<table>
<thead>
<tr>
<th>Undergraduate</th>
<th>Postgraduate</th>
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<tbody>
<tr>
<td>B.Com. (Hons.)</td>
<td>Master of Finance</td>
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</table>

TEACHING FACULTY

Head of Department: Dr. (Miss) N Niranjana

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation</th>
<th>Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. (Miss) N Niranjana</td>
<td>Professor (Hon.)</td>
<td>M.Com., M.Phil., Ph.D.</td>
</tr>
<tr>
<td>Dr. (Miss) Ch Radhakumari</td>
<td>Associate Professor</td>
<td>M.Com., M.Phil., Ph.D.</td>
</tr>
<tr>
<td>Dr. (Miss) T R Rajeswari</td>
<td>Associate Professor</td>
<td>M.Com., B.Ed., M.Phil., Ph.D.</td>
</tr>
<tr>
<td>Sri Ruchir Desai</td>
<td>Associate Professor</td>
<td>M.Com., FCMA</td>
</tr>
<tr>
<td>Sri Sanjay Sahni</td>
<td>Associate Professor</td>
<td>M.Com.</td>
</tr>
<tr>
<td>Dr. N Siva Kumar</td>
<td>Asst. Professor</td>
<td>M.B.A., Ph.D.</td>
</tr>
<tr>
<td>Miss U Suma*</td>
<td>Asst. Professor</td>
<td>M.Com., M.Ed.</td>
</tr>
<tr>
<td>Sri Rajeev Rajan</td>
<td>Asst. Professor</td>
<td>M.F.M.</td>
</tr>
</tbody>
</table>

* also pursuing Doctoral Research

VISITING FACULTY

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation / Institution</th>
<th>Course / Topic Covered</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sri S Ramesh</td>
<td>Fellow, Institute of Company Secretaries of India, New Delhi</td>
<td>Banking &amp; Marketing</td>
<td>Winter Semester 2011/12</td>
</tr>
<tr>
<td>Mrs. Anubhuti Tandon</td>
<td>Process Consultant, Rural Shores, Bangalore</td>
<td>Business Management</td>
<td>Two days per week, academic year 2011/12</td>
</tr>
<tr>
<td>Mr. K Parvatheesam</td>
<td>Company Secretary, Infosys, Bangalore</td>
<td>Corporate Governance</td>
<td>18 Jun 2011</td>
</tr>
</tbody>
</table>
Mr. Vivek Gour  CEO, Airworks, Delhi
Mr. G Sriram  Sr. Manager, Deloitte Haskins & Sells, Chennai
Sri Chandra Mohan  Manager, State Bank of India, Kaudugodi Branch, Bangalore
Mr. Vivek Gour  CEO, Airworks, Delhi
Mr. S Balasubramanian  Sr. Director, Infrastructure Development Finance Company Limited (IDFC), Chennai
Prof. Soumya Sivakumar  Asst. Professor, Marketing, Marymount University, Arlington, Virginia, USA
Mr. R Subramanian  Consultant, Siemens, Bangalore
Mr. A Balasubramanian  CEO, Birla Sunlife Mutual Fund, Mumbai
Mr. V Harikesh  Vice-President, Lincoln International, Chennai

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
- 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.

THREAT AREAS OF RESEARCH

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

DOCTORAL RESEARCH SCHOLARS

<table>
<thead>
<tr>
<th>Scholar Name</th>
<th>Area of Research</th>
<th>Research Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miss U Suma</td>
<td>Women executives in India – A diagnostic and descriptive study</td>
<td>Prof. R Kumar Bhaskar</td>
</tr>
</tbody>
</table>

RESEARCH PUBLICATIONS

Journal Papers

Conference Papers

Chapters in Books
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

<table>
<thead>
<tr>
<th>Undergraduate</th>
<th>Postgraduate</th>
<th>Research</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. (Hons.) in Economics</td>
<td>M.A. Economics</td>
<td>M.Phil.</td>
</tr>
<tr>
<td>B.Sc. (Hons.) in Economics</td>
<td>Ph.D.</td>
<td></td>
</tr>
</tbody>
</table>

TEACHING FACULTY

Head of Department: Prof. G Balachandran

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

* also pursuing Doctoral Research
VISITING FACULTY

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

Sri Sathya Sai Institute of Higher Learning Annual Report 2011/12

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

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

DAY 2: 24 Feb 2011 - Invited Lectures

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

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

<table>
<thead>
<tr>
<th>Name &amp; Designation</th>
<th>Title of the Talk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sri K V Raghavulu, Chief General Manager, National Bank for Agriculture &amp; Rural Development (NABARD), Hyderabad</td>
<td>Financial Inclusion through Micro Credit</td>
</tr>
<tr>
<td>Prof. K L N Reddy, Former Professor, Dept. of Economics, SSSIHL</td>
<td>Environmental Ethics</td>
</tr>
<tr>
<td>Prof. D V Subba Rao, Professor, Acharya N G Ranga Agricultural University, Hyderabad</td>
<td>Good Governance for Agriculture sector in India</td>
</tr>
<tr>
<td>Ms. Sheeba Andrews, Doctoral Research Scholar, Institute for Social and Economic Change (ISAC), Bangalore</td>
<td>Land Use Change and Its Implications: With Special Reference to Kerala</td>
</tr>
<tr>
<td>Dr. (Ms.) Tanveer Ishrath, Faculty, Institute of Public Enterprise (IPE), Hyderabad</td>
<td>Agriculture and Inclusive Growth in India</td>
</tr>
<tr>
<td>Sri Harish Kumar H S and Dr. R Prabhakara Rao (Head), Dept. of Economics, SSSIHL</td>
<td>Efficacy of National Policy on the Land Acquisition Act and Resettlement and Rehabilitation</td>
</tr>
<tr>
<td>Min. Subhasree Banerjee, Doctoral Research Scholar, Institute for Social and Economic Change (ISAC), Bangalore</td>
<td>Public Investment in Agricultural and GDP Growth: Another Look at the Inter-sectoral Linkages and Policy implications</td>
</tr>
<tr>
<td>Sri Harish Mani (Former Asst. Professor), Prof. G Balachandran (Former Head, Dept. of Economics, SSSIHL), and Prof. V Pandit (Former Vice-Chancellor, SSSIHL), Dept. of Economics, SSSIHL</td>
<td>Food Inflation In India: 1980 to 2010</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Name &amp; Designation</th>
<th>Title of the Talk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. (Ms.) Sarmistha Das, Asst. Professor and Head, Dept. of Economics and Business Environment, Eastern Institute for Integrated Learning in Management, Kolkata</td>
<td>Quality of Life- Destination West Bengal: pilot Study</td>
</tr>
<tr>
<td>Dr. (Ms.) Sai Sailaja, Asst. Professor, Institute of Public Enterprise, Hyderabad</td>
<td>A Panel Data Analysis of Electricity Demand and Reforms- A Study of Selected Indian States</td>
</tr>
<tr>
<td>Ms. Sheeba Andrews, Doctoral Research Scholar, Institute for Management, Kolkata</td>
<td>Inclusive Growth and Economics Development in India</td>
</tr>
<tr>
<td>Sri Kavya M, Sri Gunha Thakurata and Sri Soumava Basu, Doctoral Research Scholars, Hyderabad Central University, Hyderabad</td>
<td>Unequal Growth and Environmental Degradation: A Political Economy of India’s Liberalisation</td>
</tr>
</tbody>
</table>

Technical Session III: Students’ Presentations

<table>
<thead>
<tr>
<th>Name &amp; Designation</th>
<th>Title of the Talk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sri Akash Krishnan (Student) and Sri Harish Mani (Former Asst. Professor), Dept. of Economics, SSSIHL</td>
<td>Price wars and market concentration: an experimental study</td>
</tr>
<tr>
<td>Sri Arjun Prasad P (Student) and Sri Raghavender Raju (Asst. Professor), Dept. of Economics, SSSIHL</td>
<td>Foreign Exchange Derivatives Market in India: Status and Prospects</td>
</tr>
<tr>
<td>Sri Bhargav Meenam K (student) and Dr. Deepak Anand (Asst. Professor), Dept. of Management Studies, SSSIHL</td>
<td>Financial Literacy as a key factor to achieve Financial Deepening in India</td>
</tr>
<tr>
<td>Sri Bhargav P (Student, Dept. of Management Studies) and Sri G Raghavender Raju (Asst. Professor, Dept. of Economics), SSSIHL</td>
<td>Infrastructure and Economic Development in India: Role of Public Private Partnerships</td>
</tr>
<tr>
<td>Sri Harish Kumar H S (Student) and Dr. R Prabhakara Rao (Head), Dept. of Economics, SSSIHL</td>
<td>An Empirical study of Inflation-Adjusted stock returns in Indian stock markets</td>
</tr>
<tr>
<td>Sri Lakshminarant Sharma and Sri G Raghavender Raju (Asst. Professor, Dept. of Economics, SSSIHL)</td>
<td>Euro Debt Crisis: Indian Economy Perspective</td>
</tr>
<tr>
<td>Sri Radha Preetam K R (Student) and Dr. R Prabhakara Rao (Head), Dept. of Economics, SSSIHL</td>
<td>Oil Prices, Inflation and Economic Growth</td>
</tr>
<tr>
<td>Sri Ratheesh K (Student) and Sri G Raghavender Raju (Asst. Professor, Dept. of Economics, SSSIHL)</td>
<td>Capital Flows and Their Macroeconomic Effects in India</td>
</tr>
<tr>
<td>Sri Sai Kumar S N (Student) and Dr. Deepak Anand (Asst. Professor), Dept. of Management Studies, SSSIHL</td>
<td>RBI Intervention and its effect on volatility</td>
</tr>
<tr>
<td>Sri Soumyajit Ghosh (Student, Dept. of Management Studies) and Sri G Raghavender Raju (Asst. Professor, Dept. of Economics), SSSIHL</td>
<td>India’s Exchange Rate Behaviour and Management: A Post Reform Period Analysis</td>
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<table>
<thead>
<tr>
<th>Name &amp; Designation</th>
<th>Title of the Talk</th>
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</thead>
<tbody>
<tr>
<td>Dr. T V G Sarma, Associate Professor, Chh. Shahu Institute of Business Education and Research, Kolhapur, Maharashtra</td>
<td>New economic reforms and manufacturing industries in western Maharashtra</td>
</tr>
<tr>
<td>Sri Rajan S S (Doctoral Research Scholar) and Prof. V Pandit (Former Vice-Chancellor), SSSSIHL</td>
<td>Efficiency and productivity growth in Indian banking</td>
</tr>
<tr>
<td>Dr. Adithya Sathyan C, Institute for Social and Economic Change, Bangalore</td>
<td>Exchange rate pass through to import prices: panel evidence from emerging market economies</td>
</tr>
<tr>
<td>Sri G Raghavender Raju (Ass. Professor) and Prof. V Pandit (Former Vice-Chancellor), Dept. of Economics, SSSSIHL</td>
<td>A Structural Model of India's Balance of Payments</td>
</tr>
<tr>
<td>Sri Rajbhushan J Nayak (Doctoral Research Scholar) and Prof. G Balachandran (Head), Dept. of Economics, SSSSIHL</td>
<td>Fiscal Policy in India: An empirical analysis of the current stance</td>
</tr>
<tr>
<td>Ms. Vidhisha Vyas, Doctoral Research Scholar, Indian Institute of Technology, Bombay</td>
<td>Trends in Mergers and Acquisitions in Indian Manufacturing</td>
</tr>
<tr>
<td>Sri Prabhakar (Doctoral Research Scholar) and Prof. Anallian (Associate Professor), Guru Nanak Dev College, Chennai</td>
<td>Labour Issues in Special Economic Zones</td>
</tr>
<tr>
<td>Sri Siva Kiran Gupta (student) and and Dr. R Prabhakara Rao (Head), Dept. of Economics, SSSIHL</td>
<td>A Study on macroeconomic determinants of stock markets in India</td>
</tr>
<tr>
<td>Sri Sathya Sai M, Visiting Faculty, Dept. of Economics, SSSIHL</td>
<td>Life to 100 - Economic challenges and opportunities an Indian perspective</td>
</tr>
<tr>
<td>Dr. N Siva Kumar, Asst. Professor, Dept. of Commerce, SSSIHL</td>
<td>Energy equity – Divine perspectives</td>
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Concluding Session

<table>
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<tr>
<th>Name &amp; Designation</th>
<th>Title of the Talk</th>
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<tbody>
<tr>
<td>Guest of Honour: Prof. K Ramakrishna Reddy, Vice-Chancellor, Sri Krishnadevaraya University, Anantapur, Andhra Pradesh</td>
<td>Valedictory Address</td>
</tr>
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</table>

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.

<table>
<thead>
<tr>
<th>Date</th>
<th>Presenter</th>
<th>Designation</th>
<th>Topic</th>
</tr>
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<tbody>
<tr>
<td>8 Jun 2011</td>
<td>Prof. N Rajagopala Rao</td>
<td>Visiting Faculty, Dept. of Economics, SSSSIHL</td>
<td>History of Economics</td>
</tr>
<tr>
<td>15 Jun 2011</td>
<td>Prof. D V Subba Rao</td>
<td>Professor, Acharya N G Ranga Agricultural University, Hyderabad</td>
<td>Sustainable Agriculture</td>
</tr>
<tr>
<td>22 Jun 2011</td>
<td>Prof. Jayaraman</td>
<td>Visiting Faculty, Dept. of Economics, SSSSIHL</td>
<td>Ethics and Economics</td>
</tr>
<tr>
<td>29 Jun 2011</td>
<td>Prof. G Balachandran</td>
<td>Professor, Dept. of Economics, SSSSIHL</td>
<td>Economic philosophy of Ancient Indian Temples</td>
</tr>
</tbody>
</table>

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, SSSSIHL  Review of II M.A. Dissertation work
20 Jul 2011  Presentations by II M.A. students  Dept. of Economics, SSSSIHL  Review of II M.A. Dissertation work
10 Aug 2011  I.M.A & III Undergraduate students  Dept. of Economics, SSSSIHL  Status of Indian Agriculture
17 Aug 2011  I.M.A. & III Undergraduate students  Dept. of Economics, SSSSIHL  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 Sep 2011  I.M.A. & III Undergraduate students  Dept. of Economics, SSSSIHL  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, SSSSIHL  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 Manddeep 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, SSSSIHL  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, SSSSIHL  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, SSSSIHL  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, SSSSIHL  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, Kolapur, 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, Kolapur, 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

<table>
<thead>
<tr>
<th>Scholar Name</th>
<th>Area of Research</th>
<th>Research Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sri Harish Mani</td>
<td>An Analysis of an Economic Growth in a Disequilibrium Framework</td>
<td>Dr. R Prabhakara Rao</td>
</tr>
<tr>
<td>Sri Rajbhushan J Nayak</td>
<td>Sustainability of Public Debt</td>
<td>Prof. G Balachandran and Prof. Vishwanath Pandit</td>
</tr>
</tbody>
</table>

M.Phil. SCHOLARS

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

PROJECTS & DISSERTATIONS COMPLETED

M.A. Economics Dissertations

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

Journal Papers


Conference Papers

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. |

TEACHING FACULTY

Head of Department: Prof. (Miss) Madhu Kapani

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation</th>
<th>Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. (Miss) Madhu Kapani</td>
<td>Professor</td>
<td>M.A., M.Ed., Ph.D.</td>
</tr>
<tr>
<td>Dr. (Mrs.) B Rudramamba</td>
<td>Associate Professor</td>
<td>M.A., M.Ed., Ph.D.</td>
</tr>
<tr>
<td>Dr. (Mrs.) P Lavanya</td>
<td>Asst. Professor</td>
<td>M.Sc., M.Ed., M.Phil., Ph.D.</td>
</tr>
<tr>
<td>Dr. P Rameshnanayana</td>
<td>Asst. Professor (Part-time)</td>
<td>MA., M.Ed., Ph.D.</td>
</tr>
</tbody>
</table>

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


Conference Papers


Chapters in Books

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

<table>
<thead>
<tr>
<th>Undergraduate</th>
<th>Postgraduate</th>
<th>Research</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. (Optional English)</td>
<td>M.A. English Language &amp; Literature</td>
<td>M.Phil. Ph.D.</td>
</tr>
</tbody>
</table>

TEACHING FACULTY

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

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

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

**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.

Dr. (Miss) S Kanaka Durga

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.

**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.
- 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**

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

**M.Phil. SCHOLARS**

<table>
<thead>
<tr>
<th>Scholar Name</th>
<th>Thesis Title</th>
<th>Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miss Lalitha Sarma R</td>
<td>The Feminine Mystique: A Study of the Feminine Consciousness in the Selected Novels of Virginia Woolf, Doris Lessing and Anita Desai</td>
<td>Prof. (Miss) Rajeshwari C Patel</td>
</tr>
</tbody>
</table>
PROJECTS & DISSERTATIONS COMPLETED

M.A. English Language & Literature

<table>
<thead>
<tr>
<th>Scholar Name</th>
<th>Project Title</th>
<th>Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>P V S S Hari Prasanna</td>
<td>J K Rowling's Harry Potter Series: A Study of the Moral Pattern</td>
<td>Prof. (Miss) Rajeshwari C Patel</td>
</tr>
</tbody>
</table>

RESEARCH PUBLICATIONS

Journal Papers


Conference Papers


Books


Chapters in Books

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 LANGUAGES
- 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

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation</th>
<th>Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. R Gangadhara Sastry</td>
<td>Professor</td>
<td>M.A., M.Phil., Ph.D.</td>
</tr>
<tr>
<td>Miss G Rajya Lakshmi</td>
<td>Associate Professor (Hon.)</td>
<td>M.A.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation</th>
<th>Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sri R Visveswar*</td>
<td>Asst. Professor</td>
<td>M.A., M.Phil.</td>
</tr>
<tr>
<td>Ms. M Vijayalaksmi</td>
<td>Asst. Professor</td>
<td>M.A., M.Phil.</td>
</tr>
</tbody>
</table>

*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

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation</th>
<th>Qualification</th>
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</thead>
<tbody>
<tr>
<td>Dr. (Miss) Sharada Subramani</td>
<td>Associate Professor</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Dr. (Miss) M. Venkatalakshmi</td>
<td>Asst. Professor</td>
<td>M.A., Ph.D.</td>
</tr>
</tbody>
</table>

VISITING FACULTY

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

Conference Papers

- Subramani 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.

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation</th>
<th>Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. M Veerabhadraiah</td>
<td>Professor (Hon.)</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Dr. (Ms.) C Padmavathamma</td>
<td>Professor (Hon.)</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Dr. (Miss) P Vijayalakshmi Pandit</td>
<td>Asst. Professor (Hon.)</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Dr. (Mrs.) M Praphulla</td>
<td>Asst. Professor</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Sri K Suryanarayana Murthy</td>
<td>Telugu Pandit (Hon.)</td>
<td>M.A., B.Ed.</td>
</tr>
</tbody>
</table>

SPECIAL ACHIEVEMENTS

- Dr. (Ms.) C Padmavathamma
  - Delivered talks on All India Radio (AIR) on the topics of vinadagu mata, Pekku bhangulu viveka bhrashta sampathamulu, 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

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation</th>
<th>Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. (Miss) Kiron Bala Arora</td>
<td>Associate Professor</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Sri S C Jain</td>
<td>Asst. Professor (Part-time)</td>
<td>M.A.</td>
</tr>
<tr>
<td>Dr. Piyush Kumar Shrivastava</td>
<td>Asst. Professor</td>
<td>M.A., Ph.D.</td>
</tr>
</tbody>
</table>
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


Conference Papers


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

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Dr. C L N Murthy</td>
<td>Professor (Hon.)</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Dr. N Venkatesha Rao</td>
<td>Associate Professor</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Dr. (Mrs.) M Praphulla</td>
<td>Asst. Professor</td>
<td>M.A., Ph.D.</td>
</tr>
</tbody>
</table>

SPECIAL ACHIEVEMENTS

Dr. (Mrs.) M Praphulla

- Delivered a talk on Sanskrit 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


Books

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

- Prayers & Exercise
- Morning Ablutions & Breakfast
- College (Inc. Lunch)
- Rest/Tea
- Dinner & Study
- Sleep
- Mandir
- Self-Reliance & Sports

LIST OF RESIDENTIAL TEACHERS AT SSSIHL HOSTELS

Prasanthi Nilayam Campus

Dr. G Nageswara Rao
Dr. S Siva Sankara Sai
Sri G Srinivas Srinangarajan
Sri R Renu
Dr. Pallav Kumar Baruah
Sri P Sujith Kumar
Dr. N Niranjan
Sri N Uday Kiran

Dr. Shashank Shah
Sri D Hanumantha Rao Naidu
Sri Srikanth Khanna
Sri A S Vishwanathan
Dr. Krishna Kiran Vamsi Dasu
Sri Devi Sudheer Kumar C
Dr. D Rajesh Babu
Sri Murlikrishna Molli

Anantapur Campus

Ms. Pushpa Ramanna
Dr. (Miss) Kiron Bala Arora
Dr. (Miss) Sharada Subramaniam
Dr. (Miss) P L Rani
Dr. (Miss) M Venkatalakshmi

Ms. M Meera
Miss Divya Goyal
Dr. (Ms.) Seethalakshmi Laxmanan
Miss Bibha Bhangavi
Miss Maitali Verma
Miss Sharanya Balasubramanian

Dr. (Mrs.) Sahida Sharma
Dr. (Miss) M Venkatalakshmi

Dr. (Miss) T R Rajeswari
Dr. (Miss) Seethalakshmi Laxmanan
Miss Purva Narang

Brindavan Campus

Dr. K S Narahari
Sri K P Gopinath
Sri Rajkumar Jain
Sri M G Nandagopal
Sri Ruchir Desai
Sri R Subramaniam
Sri Sanjay Sahni

Dr. C N Sundaresan
Dr. K S Umesh
Dr. T Ravikumar
Sri S Sathya Narayanan
Sri K K Sai Anand
Sri Darshan Gera
Sri Denny Melkay M George
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, dramas, 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

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 Bharat. 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…Bharatya culture is a composite of purity, divinity, subtlety, 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 SSSSIHL, students participate in a host of sports and cultural activities. Examples of these include:

- Music, dance, drama, quiz, panel discussion and elocution
- Competitions in Vedanta, 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 metaphysis. 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, paragliding, 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 Vediika 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 Vediika 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 Vediika. Before the start of the programme, the Vice-Chancellor and other senior officers of the Institute came to the chair of Bhagawan at Shanti Vediika and offered their salutations to Bhagawan. As Bhagawan’s car reached in front of Shanti Vediika, before Shanti Vedika and offered their salutations to Bhagawan.

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 Vediika, the brass bands of Prasanthi Nilayam and Anantapur Campuses provided the marching tunes. On reaching Shanti Vediika, 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 Vediika.

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 from the control 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 yogaanas 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 Vediika 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 Derwishes 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 Vediika 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. Easwaranamma 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 Chakris, 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 bhaajans 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 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 bhaajans and Arati at 10.45 a.m. after distribution of Prasadam.

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 Vinyakasha 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 musical 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 Aadhana” was a vocal music presentation made by the students of Sathya Sai Mirpur 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), “Sadachare O Manasa” (Oh mine! 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 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 only 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 Ferguson 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.

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.

MAJOR CELEBRATIONS AT SSSIHL

<table>
<thead>
<tr>
<th>New Year’s Programme</th>
<th>Easwaramma Day</th>
<th>Diwali</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual Sports &amp; Cultural Meet</td>
<td>Eid-al-Fitr</td>
<td>Global Akhanda Bhajans</td>
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<tr>
<td>Republic Day</td>
<td>Independence Day Drama</td>
<td>Convocation Drama</td>
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<tr>
<td>Mahashivratri</td>
<td>Makarasankranti Day Drama</td>
<td>Bhagawan Baba’s Birthday</td>
</tr>
<tr>
<td>Drama and Valedictory Function of</td>
<td>Dance Drama Presentations and</td>
<td>Investiture Ceremony</td>
</tr>
<tr>
<td>Sports &amp; Cultural Festival</td>
<td>Music Performances</td>
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<tr>
<td>Guru Poornima</td>
<td>Gratitude Programs by graduating</td>
<td>Farewell Programme</td>
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<tr>
<td>Sri Krishna Janmashtami</td>
<td>students</td>
<td>for graduating students</td>
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<td>Onam</td>
<td>Ganesha Chaturthi &amp; Immersion</td>
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<td>Sri Ram Navami</td>
<td>Dasara Celebrations</td>
<td>Welcome Programme for</td>
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<td>Freshers</td>
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<td>Christmas</td>
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</tbody>
</table>
WINNERS OF THE SAI KRISHNA AWARD FOR RESEARCH & TEACHING, 2011/12

<table>
<thead>
<tr>
<th>Research Area</th>
<th>Name</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sciences</td>
<td>Prof. K Venkataramaniah (M.Sc., Ph.D.)</td>
<td>Professor (Hon.), Dept. of Physics, SSSIHL</td>
</tr>
<tr>
<td>Management, Commerce, Economics and Education</td>
<td>Dr. N Siva Kumar (M.B.A., Ph.D.)</td>
<td>Asst. Professor, Dept. of Commerce, SSSIHL</td>
</tr>
<tr>
<td>Language &amp; Philosophy</td>
<td>Dr. N Venkatesha Rao (M.A., Ph.D.)</td>
<td>Associate Professor in Sanskrit, SSSIHL</td>
</tr>
</tbody>
</table>

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 short-listing 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 priority. A weighted score for all these candidates is computed and presented to a committee comprising of the Director of campus; Heads of departments; wardens; 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.

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.
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 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 teachings in their daily lives. Second, is the benedictory address by the Reverend Founder Chancellor, which serves as their 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.

Graduates receive their degrees and Award of Gold Medals

The Controller of Examinations of the Institute, presented the graduates 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.

Reverend 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 “Matru Devo Bhava, Pitru Devo Bhava, Acharya Devo Bhava, Atithi Devo Bhava” (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 “Matri Deva Bhava, Pitru Deva Bhava, Acharya Deva Bhava, Atithi Deva 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 Medalists 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 of Bhagawan and the innumerable projects that He has been of different beliefs and religions, but they respect each other and accept the difference.

LESSON ONE: SPIRITUALITY

Religion that should function as a path to God has been turned to be used as a tool of oppression and legitimation 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 ambiance 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.
5 UNIVERSITY STRUCTURE
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:

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
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<tbody>
<tr>
<td>Prof. J Shashidhara Prasad</td>
<td>Vice-Chancellor, SSSIHL</td>
</tr>
<tr>
<td>Sri V Srinivasan</td>
<td>All India President, Sri Sathya Sai Seva Organisation</td>
</tr>
<tr>
<td>Justice A P Misra</td>
<td>Former Judge, Supreme Court of India</td>
</tr>
<tr>
<td>Prof. S P Thyagarajan</td>
<td>Former Vice-Chancellor, University of Madras</td>
</tr>
<tr>
<td>Sri R J Rathnakar</td>
<td>Member, Sri Sathya Sai Central Trust</td>
</tr>
</tbody>
</table>

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

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 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:

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
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<tbody>
<tr>
<td>Sri Indulal H Shah</td>
<td>Former Chairman, SSS Seva Organisation</td>
</tr>
<tr>
<td>Sri V Srinivasan</td>
<td>All India President, SSS Seva Organisation</td>
</tr>
<tr>
<td>Justice A P Misra</td>
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<td>Prof. S P Thyagarajan</td>
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</tr>
<tr>
<td>Sri R J Rathnakar</td>
<td>Member, Sri Sathya Sai Central Trust</td>
</tr>
</tbody>
</table>

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 Bhabha 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 Naga Junia University, Guntur, Andhra Pradesh
Prof. P K Sahoo Head, Department of Education, University of Allahabad, Uttar Pradesh
Prof. Sri G Prasad Director, Andhra Pradesh Govt. Oriental Manuscripts Library & Research Institute, Hyderabad, Andhra Pradesh
Prof. K Subramanyam Head, Department of Politics & Public Administration, Andhra Pradesh University Campus, Kakinada, Andhra Pradesh
Prof. A Sudhir Bhaskar Dean, Faculty of Management and Commerce, Andhra Pradesh University Campus, Guntur, Andhra Pradesh
Prof. S Krishnan Dean, Faculty of Sciences and Head, Department of Biosciences, SSSIHL
Prof. G Balachandran Dean, Faculty of Economics & Humanities, and Head, Dept. of Economics, SSSIHL
Prof. P K Chandra Devaki Head, Department of Hindi, Karnatak University Dharwad, Karnatakka
Dr. J Suman Babu Dept. of Telugu, P R Government College, Kakinada, Andhra Pradesh
Prof. S Subramaniam 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) Madhav Kapani Head, Department of Education, 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 Vrinivasan Trustee, Sri Sathya Sai Institute of Higher Learning (Public Charitable Trust) Member

Sri Sathya Sai Institute of Higher Learning Annual Report 2011/12
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 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 fulfillment 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 Planning and Monitoring Board is responsible for monitoring 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 fulfillment 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 are 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 Bhaba 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 BIO SCIENCES

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
Subject of SANSKRIT

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

Subject of HINDI

Prof. C Sareeshchandra
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 Sirirangarajan 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 Janardhna Professor (Hon.) and Head, Department of Chemistry, SSSIHL
Dr. S Sivasankara 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
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.

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

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.) from his 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 (1980-93); and also held high positions in the Faculty of Science & Technology and in the Department of Studies in Physics at the University of Mysore (1980-2002).

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.

<table>
<thead>
<tr>
<th>Faculty of Science</th>
<th>Dean: Prof. S Krupanidhi</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Department of Mathematics &amp; Computer Science</td>
<td>Prof. V Chandrasekaran</td>
</tr>
<tr>
<td>2. Department of Physics</td>
<td>Dr. S Siva Sankara Sai</td>
</tr>
<tr>
<td>3. Department of Chemistry</td>
<td>Prof. Chelli Janardhana</td>
</tr>
<tr>
<td>4. Department of Biosciences</td>
<td>Prof. S Krupanidhi</td>
</tr>
<tr>
<td>5. Department of Home Science</td>
<td>Prof. (Mrs.) Rashmi Kapoor</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Faculty of Management &amp; Commerce</th>
<th>Dean: Prof. A Sudhir Bhaskar</th>
</tr>
</thead>
<tbody>
<tr>
<td>6. Department of Management Studies</td>
<td>Prof. Shiv R Pandit</td>
</tr>
<tr>
<td>7. Department of Commerce</td>
<td>Dr. (Miss) N Niranjana</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Faculty of Economics &amp; Humanities</th>
<th>Dean: Prof. G Balachandran</th>
</tr>
</thead>
<tbody>
<tr>
<td>8. Department of Economics</td>
<td>Prof. G Balachandran</td>
</tr>
<tr>
<td>9. Department of Education</td>
<td>Prof. (Miss) Madhu Kapani</td>
</tr>
<tr>
<td>10. Department of English Language &amp; Literature</td>
<td>Prof. (Miss) Rajeshwari C Patel</td>
</tr>
</tbody>
</table>

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

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**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.
### APPENDIX 1: MORAL CLASS SESSIONS - CAMPUS WISE

#### Prasanthi Nilayam Campus

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Jun 2011</td>
<td>Spirituality and Interrelationships</td>
<td>Sri K Anil Kumar, Associate Professor (Hon.), Dept. of Biosciences, SSSIHL</td>
</tr>
<tr>
<td>24 Jun 2011</td>
<td>Badrinath Visit with Swami</td>
<td>Sri Arvind Hejmadi, Placement Officer (Hon.), Dept. of Management Studies, SSSIHL</td>
</tr>
<tr>
<td>30 Jun 2011</td>
<td>Experiences with and Miracles of Swami</td>
<td>Sri Vedanarayana, SSS Higher Secondary School</td>
</tr>
<tr>
<td>7 Jul 2011</td>
<td>Experiences in Swami's Fold</td>
<td>Prof. S R Krishnaswami, CEO, Preeti Petrochem USA, Dallas, Texas, USA</td>
</tr>
<tr>
<td>16 Jul 2011</td>
<td>Spiritual Quest as a Scientist</td>
<td>Prof. J Shashidhara Prasad, Vice-Chancellor, SSSIHL</td>
</tr>
<tr>
<td>28 Jul 2011</td>
<td>Experiences with Bhagavan - Interviews</td>
<td>Sri Vinay Kumar, Youth Coordinator, SSS Seva Organization, Bangalore</td>
</tr>
<tr>
<td>8 Oct 2011</td>
<td>Valuable lessons taught by Bhagawan based on Indian Culture and Spirituality</td>
<td>Mrs. P K Usha Rani</td>
</tr>
<tr>
<td>1 Nov 2011</td>
<td>Experiences in Swami's Fold</td>
<td>Prof. M Nanjundaiah, Former Controller of Examinations, SSSIHL</td>
</tr>
<tr>
<td>16 Feb 2012</td>
<td>Learning at Swami’s Lotus Feet</td>
<td>Sri Venu Srinivasan, CMD, TVS Motors Co. Ltd., Chennai</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Jun 2011</td>
<td>Laksha Archana</td>
<td>Freshers</td>
</tr>
<tr>
<td>14 Jun 2011</td>
<td>Talent show</td>
<td></td>
</tr>
<tr>
<td>23 Jun 2011</td>
<td>Classical music competition</td>
<td></td>
</tr>
<tr>
<td>30 Jun 2011</td>
<td>Valuable lessons taught by Bhagawan based on Indian Culture and Spirituality</td>
<td>Mrs. P K Usha Rani</td>
</tr>
<tr>
<td>15 Jul 2011</td>
<td>One Act Play competition</td>
<td></td>
</tr>
<tr>
<td>21 Jul 2011</td>
<td>A Video presentation on “Soul’s journey” focused on Bhagawan’s Interview with the author of the Book – ‘A Catholic Priest Meets Sai Baba’</td>
<td>Ms. U Suma, Asst. Professor, Department of Commerce, SSSIHL</td>
</tr>
<tr>
<td>28 Jul 2011</td>
<td>Mono Action Competition</td>
<td></td>
</tr>
</tbody>
</table>

**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.

#### Brindavan Campus

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Jun 2011</td>
<td>Bhagawan Baba’s discourse to Students - Summer Course 1995 - A Video Presentation</td>
<td>Sri Vinay Kumar, Youth Coordinator, SSS Seva Organization, and Financial Consultant, Bangalore</td>
</tr>
<tr>
<td>9 Jun 2011</td>
<td>My Beloved Lord</td>
<td></td>
</tr>
<tr>
<td>16 Jun 2011</td>
<td>Open House Quiz</td>
<td></td>
</tr>
<tr>
<td>23 Jun 2011</td>
<td>My Beloved Lord</td>
<td>Dr. (Miss) T R Rajeswari, Associate Professor, Dept. of Commerce; and Mrs. Soujanya, Alumnus, SSSIHL</td>
</tr>
</tbody>
</table>

**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.
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 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 Institute of Science, Bangalore.

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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.

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...
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 ambiance. 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 saddhana (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. 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”. Is it 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 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. 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 material 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 breathing 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 time, in the short span of a few years is an inspirational story. When Rowling reflects on her experiences, before a Har¬vard 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 elo¬quent 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 at¬tained 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 inventions and innovation, but 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 Rowling's parents wish 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 elo¬quent 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 at¬tained by passing examinations. Failure taught me things about myself that I could have learned no other way.'

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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 setbacks 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.
Students! During this convocation you take the degree for your education but you should take the degree of educare from Bhagawan. 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 moulded 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, such ideal students.

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

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.

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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.

Embodyments 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 moulded 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 educare from Bhagawan. Bliss of the Self is educare. 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

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

Be like the star which never wavers from the crescent—but is fixed in steady faith. When the sun is over your head, there will be no shadow; so too when faith is already 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 in 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