

SPHOORTHY ENGINEERING COLLEGE

(PERMANENTLY AFFILIATED TO JNTU, HYDERABAD)

COLLEGE ANNUAL DAY REPORT

ACADEMIC YEAR : 2011-12



**Campus: Nadargul Village, Near Vanasthalipuram,
Sagar Road, Saroornagar Mandal,
Hyderabad. Pincode: 501510.**

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18th March, 2012

1. HISTORY OF EDUCATION AT SPHOORTHY ENGINEERING COLLEGE

Sphoorthy Engineering College was established in the Year 2004 under the flagship of Thoma Educational society. The Society has proven rich experience in the filed of education for more than 22 years. We have evolved into a Center of excellence in Science and technology through creative and innovative practices in teaching-learning, promoting academic achievements and Research Excellence to produce World Class professionals.

The aim and vision of Sphoorthy Engineering College is to provide a holistic education system where students are endorsed with skills. Our mission is to enhance all the skills of the students according to the societal requirement. In today's world of cut throat competition transitions occurring drastically. The students are molded to face challenges and transpire successfully. Students are expected to have physical, physiological and psychological domains so that, they can analyze and comprehend their work. If they have these domains then, Sky is the limit for their achievement.

About Chairman, Director and Governing Body:

The Institution was the dream of the renowned Educationalist Shri.S.Chalama Reddy garu, Chairman and Shri. S. Jagan Mohan Reddy garu, the Secretary and Correspondent. Our Eminent Board of Directors and Governing Body Members are:

- Chairman of the Governing Body - Prof. A Narasimha Reddy, Formerly Academic Director, Osmania University Hyderabad.
- Mr. S. Madan Mohan Reddy;
- Mr. P. Usha Kiran Kumar, Academician, Chairman, Sree Kavitha Engineering

College;

- Mr. R. Vidya Sagar Rao, Rtd. Commissioner, Ministry of water Resources, Consultant on water Resources to State and Centre;
- Dr. N. Lakshmaiah, eminent Scientist, National Institute of Nutrition Hyderabad;
- Prof. T. Venkata Rajaiah, Professor, English, Osmania University, Hyderabad;
- Prof. Sai Kumar, Director, Institute of Public Enterprises, Hyderabad and
- Dr. D. Srinivasa Rao, Professor, ECE, JNTU College of Engineering, Hyderabad.

We are thankful to our Governing Board members for providing valuable ideas and inputs which are properly implemented and executed and help for the augmentation of our Institution.

2. EDUCATION PROCESS AT SPHOORTHY ENGINEERING COLLEGE

Courses and Student Intake:

The college offers 5 Under Graduate courses in the streams of ECE, CSE, IT, Mechanical and Civil Engineering and 4 Post Graduate courses M.Tech(CSE), M.Tech., (ECE), MBA and MCA with an intake of 120 students each in ECE and CSE and 60 each in IT, Mechanical and Civil Engineering. The Intake for MBA and MCA Courses are 60 and 36 students in M.Tech., courses. The total number of Students benefiting the fruits of quality education in our College for this Academic Year is 2000.

Academic Calendar:

The Class work for B. Tech II,III and IV / I Semester was started from 4th July,2011 and ended on 24th December, 2011 and The Class work for II Semester was commenced from 26th December, 2011 and the last date of instruction is 30th April, 2012.

Orientation programme for B.Tech I Year Students was organized on 21st August, 2011 and Dr. Ratnakar Rao, Director, Global Hospitals and Mr.Gopala Krishna, IAS (Retired Collector) was the Chief Guests of the day. The College is grateful to these eminent personalities who motivated I year students with their inspirational words.

The Class work for B.Tech, I Year students was commenced from 25th August, 2011 and the last date of instruction is 30th April, 2012.

Teaching Methodologies:

Our well qualified and competent faculty members deliver the subject content with Effective Teaching Methodologies by using Interactive Teaching Techniques like Audio Visual Aids in every class-room. The Teaching Process includes Lecture Method, Demonstration, Industrial Visits, Industrial Tours, Experiments, Projects, Seminar, Group Discussions, Role Plays etc.,

Faculty Feedback:

It is our regular practice to evaluate and appraise the faculty members by taking feedback from the students from time to time. The suggestions/comments are shared with the faculty members for modifying the Teaching style for the better understanding of the subject.

Various Committees and their working:

18 Committees are formulated for smooth functioning of the College under the Chairmanship of the Principal.

- **College Academic Committee** was constituted to review the academic and other related activities of the College like Student and Faculty Development Programmes for the development and growth of the College
- **Library Committee** was Constituted to look into general policies related to the quality/depth of collections, services, instruction program and infrastructure

- **Sports Committee** has been constituted create a healthy and conducive environment for excellence in Sports and Games and develop facilities for Physical fitness of Students and Faculty members.
- It is good to air a grievance rather than to keep it bottled up. Protection of human rights is essential for all round development of an individual's personality. To realize the primary needs of the students and staff and secure civil liberties for everybody, a **College Grievance Redressal Cell** has been constituted.
- **Internal College Academic Committee has been constituted**
- **Anti ragging Committee** has been constituted to take steps for curbing ragging of the Students. The Committee should monitor Students during the lunch hours/ leisure hours/ sports events/ canteen/ library/ college buses etc.,
- **Sphoorthy Innovative Ideas Club and R&D Center** was formulated to take steps towards doing innovative projects by the students and encourage Productive Ideas for Development
- **Sphoorthy Engineering College NSS Committee** was constituted to make the students aware of social responsibilities and dignity of labour and make them self – reliant.
- **Sphoorthy Women's Chapter** Committee has been constituted to provide support and guidance particularly around issues concerning the girl students, female faculty and staff on the campus sequentially to make girls/women feel comfortable on campus and to encourage them for their complete involvement in academic excellence, extra curricular activities and various other activities which help to build confidence in them.
- **Canteen Committee** has been constituted for overall supervision of matters related to Canteen to provide hygienic food to students and staff.
- **Editorial Committee** has been constituted to bring out the developments of the College activities and publish them in the form of Magazine/ Newsletter.
- **Infrastructure Committee** has been constituted to look after

Infrastructure developments in the institution, regulate and monitor Civil works finalization etc.,

- **Committee for NBA related activities** was constituted to train the faculty members for NBA Accreditation work for appraising the Institutional Quality.
- **Civil and Mechanical Lab Committee** has been constituted to look after the establishment and activities of Civil and Mechanical Laboratories.
- **The Time table Committee** has been constituted to monitor the Individual Departmental Time Table and overall College Time Table including Master Time Table
- The Institution has decided to become a member of STED, as a part of which, a **Student Committee** has been constituted.
- **Sphoorthy Engineering College Recreation Club** was inaugurated on 2nd January, 2012 to encourage the holistic development of the students by coordinating and promoting a variety of Educational, Recreational, Social, Cultural and entertainment programs and services. The Club constitutes of following wings:
 - Kalidas Picasso Creative Club
 - Amitab Shakespeare Dramatic club
 - Jaggi Vasudev Wordsworth Eco club
 - Rafi Ghantasala Singing Club
 - CV Raman – Eienstein Robotics Club
 - Rabindranath Tagore Language Club
 - Sachin Tendulkar Sports Club
 - Vivekananda – Social Services Club

All these Clubs and Committees are functioning very actively and review meetings are taking place periodically to discuss the progress and draft action plans.

3. ACADEMIC EXCELLENCE:

About Examination Branch:

The Examination Branch is the heart of the College and working with 100% perfection. It is headed by Mr.D.Purnachander Rao, and there are 6 supporting staff to efficiently carrying out the Systematic organization. It is successfully conducting internal examinations, updating the marks of UG and PC Students. It is also playing a dynamic role in successfully conducting JNTU Examinations. It is dynamically updating according to JNTU EDEP System. The examination branch immediately announces Semester wise, Year Wise and Branch Wise toppers and analyzes the results Instantaneously.

Toppers of CSE,ECE, IT, Civil, Mechanical, MBA, MCA and M.Tech Courses:

- D. Sravya from ECE stood as topper with 76.75% and A. Achyutamba in II Position with 74.07% for (2007-2011)
- G. Sri Ramya from CSE stood as topper with 73.93% and A. Shalini Reddy in II Position with 73.87% for (2007-11)
- B. Hemanth Reddy from IT stood as topper with 72.77% for (2007-11)

4. PLACEMENT RECORD

Pre Placement Activities/support:

1. If a student opts for a job the Placement Cell provide training to the students in aptitude, soft skills, G.D's, jam Sessions and H.R. Round's. To train the students in these departments we are associated with **Career Conduit, Deloitte, CELT, O.U. , JKC, Globarena and many more.....** With the help of these associations we strengthen the students to face recruitment process.

2. There are 60 odd companies on our campus list for recruitment drives. In the academic year (2010 – 2011) 167 students are placed in reputed organizations such as IBM, Accenture, Infosys, Wipro, CMC, HCL, CSC, Mphasis, TCS, Google, Nextgen , Mobile Technologies, Visiontek, ICICI, Bank of America and many more.....

In current academic Year (2011-2012) 50 students got placed in reputed organizations such as Infosys, HCL, Syntel, Dell, Kantar operations, Broadridge, Datamonitor, Igenieses.

3. If a student opts for higher education the College has a Tie-up for “Higher Education & Career council Cell” with Valmiki & Right Directions for in house training on TOFEL/IELTS/GRE and Promotes the Higher Education aspirants to USA, UK, Australia, Canada and other countries. (From 2011 batch 74 students are in U.S, U.K & Other countries).
4. If a student opts to set-up his own dream organization, the Placement Cell guides the students in association with **Entrepreneur Development Cell, O.U. & NSIC** The cell helps the student to fulfill their dreams.
5. To strengthen further the College is associated with **JKC as STAR RATED COLLEGE** and also tie-up with **JNTUH/GEMS** programme for placements.
6. The College is also associated with **INFOSYS, IBM, TCS & WIPRO** for campus connect programmes.
7. “**Sphoorthy Industry Interaction Cell**” is established which takes up all the Activity’s like – Industrial Visits, certification programmes like Oracle, Microsoft, Autodesk. Guest Lectures from industry hr’s.
8. It has associated with Ramakrishna Math established **Human Excellence Cell** in our college to empower the student’s abilities and character.
9. Further we make the students corporate ready by conducting workshops, seminars, Guest Lectures with the help of departments. We are also having a student Committee which is called **STED** (society for triggering engineers development) which is taken care by the students in association with JNTUH Students Chapter. The objective of the STED is to learn, leverage and lead.
10. As we are associated with NASSCOM and our college is recognized as authorized test center.
11. The Cell organized “**Training the Trainer**” Programmes in association with NITTTR, WIPRO & ORACLE.

In turn the main moto of Placement Cell is to train the students in Toto.

Placement Record (2011 and 2012 – Branch Wise)

PLACEMENTS SELECTED LIST 2011 - 12

| Sl. No. | S no | HT NO | Name | Branch | Company Selected for |
|---------|------|------------|----------------------|--------|----------------------|
| 1 | 1 | 08N81A0545 | T. PAVAN KUMAR REDDY | CSE | ZENSAR |
| 2 | 2 | 08N81A0504 | N.PRATHYUSHA | CSE | HCL |
| 3 | 3 | 08N81A0533 | R. VASAVI | CSE | HCL |
| 4 | 4 | 08N81A0520 | G. MOUNIKA | CSE | HCL |
| 5 | 5 | 08N81A0525 | K.RESHMA REDDY | CSE | HCL |
| 6 | 6 | 08N81A0513 | B.SNEHA | CSE | HCL |
| 7 | 7 | 08N81A0502 | G.ANUSHA | CSE | HCL |
| 8 | 8 | 08N81A0512 | CHIRUMAMILLA VINEELA | CSE | SYNTEL |
| 9 | 9 | 08N81A0536 | DUGGINENI VAMSI | CSE | SYNTEL |
| 10 | 10 | 08N81A0508 | P. MOUNIKA | CSE | INFOSYS |
| 11 | 11 | 08N81A0513 | SNEHA BALANAGAR | CSE | SYNTEL |
| 12 | 12 | 08N81A0505 | GUJJA RAMYA | CSE | IGENIESES |
| 13 | 13 | 08N81A0525 | K.RESHMA REDDY | CSE | IGENIESES |
| 14 | 14 | 08N81A0572 | KALLU DIVYA | CSE | IGENIESES15 |
| 15 | 15 | 08N81A0542 | KOTHA SANTOSH | CSE | KANTAR OPERATIONS |
| 16 | 16 | 08N81A0559 | P YELLA GOUD | CSE | KANTAR OPERATIONS |
| 17 | 1 | 08N81A0408 | A.SWETHA | ECE | HCL |
| 18 | 2 | 08N81A0419 | D.SRAVANTHIKA | ECE | HCL |
| 19 | 3 | 08N81A0411 | P.PRAVALIKA | ECE | HCL |
| 20 | 4 | 08N81A0410 | CH.ANUJA | ECE | HCL |
| 21 | 5 | 08N81A0418 | U.VIJAYA SREE | ECE | HCL |
| 22 | 6 | 08N81A0461 | K NARESH KUMAR | ECE | IGENIESES |
| 23 | 7 | 08N81A0495 | P V S TEJESWAR | ECE | IGENIESES |
| 24 | 1 | 08N81A1294 | MUKKARAMUDDIN AHMED | IT | HCL |
| 25 | 2 | 08N81A1267 | R.SUMA | IT | HCL |
| 26 | 3 | 08N81A1213 | N.HARSHINI | IT | HCL |

| | | | | | |
|----|----|------------|----------------------|-----|----------------------|
| 27 | 4 | 08N81A1219 | K.SAGARIKA | IT | HCL |
| 28 | 5 | 08N81A1210 | N.PRIYANKA | IT | HCL |
| 29 | 6 | 08N81A1223 | S.AISHWARYA | IT | HCL |
| 30 | 7 | 08N81A1217 | C.NITHYA | IT | HCL |
| 31 | 8 | 08N81A1201 | E.APARNA | IT | HCL |
| 32 | 9 | 08N81A1226 | B.PRATHYUSHA | IT | HCL |
| 33 | 10 | 08N81A1294 | MUKKARAMUDDIN AHMED | IT | IGENIESES |
| 34 | 11 | 08N81A1235 | B.N. V. V.SIVAPRASAD | IT | KANTAR OPERATIONS |
| 35 | 12 | 08N81A1206 | REDDYGARI USHA | IT | KANTAR OPERATIONS |
| 36 | 13 | 08N81A1278 | SAYANTAN MANDAL | IT | DELL |
| 37 | 1 | 10N81E0025 | M.V.S.VAMSIKRISHNA | MBA | BROADRIDGE |
| 38 | 2 | 10N81E0032 | S.SAINTH | MBA | BROADRIDGE |
| 39 | 3 | 10N81E0004 | T. DIVYA | MBA | DATA MONITOR |
| 40 | 4 | 10N81E0021 | J. SRIKANTH REDDY | MBA | DATA MONITOR |
| 41 | 5 | 10N81E0034 | THATI DEVASWAMY | MBA | DATA MONITOR |
| 42 | 6 | 10N81E0002 | N. KAVITHA | MBA | IGENIESES |
| 43 | 7 | 10N81E0001 | V. SWATHI | MBA | IGENIESES |
| 44 | 8 | 10N81E0009 | P.BHARGAVI | MBA | IGENIESES |
| 45 | 9 | 10N81E0011 | P. BALAMANI | MBA | IGENIESES |
| 46 | 10 | 10N81E0023 | CH. ARVIND REDDY | MBA | IGENIESES |
| 47 | 11 | 10N81E0052 | MD. HUSSAIN ALI | MBA | IGENIESES |

5. CURRICULAR AND CO-CURRICULAR ACTIVITIES:

Sphoorthy Engineering College Organized National Level Techno Fest “PRAZASTI-2K12” on 16th and 17th March, 2012.

Prof. Dr.P. Srinivasa Rao, Head, Civil Engineering Department, JNTU Hyderabad was the Chief Guest of Inaugural Function and

Prof. Dr.E. Saibaba Reddy, Director, Academic Audit Cell, JNTU Hyderabad was the Chief Guest of Valedictory Function.

It was conducted in a very grand way and around 1,000 students from 80 different colleges participated in Technical and Non technical Events and the Engineering Students of our College could able get a grand sponsorship.

Campus Recruitment Skills and Communication Skills Classes:

CRT and CS Classes are the part of the Time Table.

CRT classes conducted for all the B.Tech II,III and IV year students to train students for all the stages of Campus Recruitments Various modules for written test or aptitude test, group discussions and personal interviews. All the areas normally covered in the aptitude tests of most companies, i.e., Quantitative ability, Reasoning, Verbal and Basic Computer Skills are covered. As a part of the course, students get practice exercises and test papers for each test area followed by comprehensive tests on the pattern of the tests conducted by major companies.

Communication Skills (CS) classes are designed to prepare the students for the next stages, i.e. Group Discussion (GD) and Interview, classes are conducted in Communication Skills which include basic communication skills, GD and Interview basics, Mock GDs, mock Interviews (HR & Technical) and Psychometric tests.

NSS Activities:

“Service to humanity is service to god”

College level NSS Advisory Committee was constituted under the stewardship of the Principal and with the effective Co-ordination of Mr.P. Sri Harsha, Associate Professor, MBA Department and NSS Programme Officer.

The overall objective of our NSS UNIT is service to the society, while studying. It is sought to arouse the social conscience of students and provide them with the opportunity to work with the people around the college campus creatively, constructively and to put the education they receive to concrete social use.

NSS activities during the Academic Year:

- ① NSS volunteers visited an orphanages on 04/08/2011 and celebrated Friendship day by conducting various programs in order to give emotional support to the orphans
- ② On the occasion of Friendship day, NSS volunteers visited Kamamma Age Old Home at Malkajgiri and conducted various programs for them and also provided the lunch to the orphans on the day.
- ③ On 13/08/2011, our NSS volunteers visited a Blind school at Vanasthalipuram and celebrated Rakshsbandhan with them by organizing various games and distributed the prizes.
- ④ On 19/08/2011, the college NSS Unit celebrated "WORLD PHOTOGRAPHY DAY" by organizing various activities for the students.
- ⑤ On 10/10/2011, a Dental Check up Camp was conducted in our college premises. All the Teaching, Non-Teaching staff, students and people living in the nearby villages attended the camp and utilized the Services.
- ⑥ A Seminar on "AWARENESS ON DIABETES" was organized on 14/10/2011 by Mr.Lakshmi Narayana (Rtd. M.D., West Pharma) in the college.
- ⑦ An annual NSS Camp was organized for one week (from 15/12/2011 to 21/12/2011) at Kammaguda village, various activities were conducted in the camp including Counseling the villagers about social problems and adult education, conducted Health awareness campaign, cleaning the surroundings and roads, educational survey etc.
- ⑧ On the occasion of "National Youth Day" (Swami Vivekananda's Birthday Celebrations), on 12/01/2012, NSS Volunteers visited orphanages and distributed books, bags etc.
- ⑨ Vivekananda Social Service Club was formed under the banner of Sphoorthy

Engineering College Recreation Club.

- ⑩ On 19th February 2012, our College NSS Program Officer along with 103 NSS Student Volunteers participated in the HARITHON GREEN RUN-2012 at Necklace Road, Hyderabad organized by Plant Three Protection Alliance, supported by JNTU, Hyderabad and Andhra Pradesh Tourism to promote Importance of GREEN for better living.

R and D Cell:

Research and Development Cell was inaugurated on 15th August, 2011 to involve the students in Research and endow required expertise in their subjects, familiarity with the field, competence in methodology, technical skills in collecting and analyzing the data. Mrs.J. Deepthi, Asst. Prof. CSE Department and Mr. Kishore, Asst.Prof., ECE Department were the Co-ordinators of the Cell. The Cell is supported by Eminent Professor of respective fields who conduct review meetings to examine the quality of research conducted by various teams.

A Robotic Club has been established to encourage the innovative ideas by providing funds to the Students.

Sphoorthy Finishing School:

Engineering students are expected to be employable and ready for the work place when they finish their studies. It is generally expected that the graduates should be equipped with a balance of technical skills in addition to the relevant “soft skills”, required in the work place. The ground reality is that most of the graduate passing out of various engineering institutes all over India does not meet the industry employability standards. In order to meet this deficit a particular pedagogical system has evolved.

Sphoorthy Finishing School is benchmarked according to the present ability of the professional students and enabling them with the required expertise on corporate code of conduct and business etiquettes. It conducts Power Packed Personality Grooming Module for all the students to shape them as Professionals.

The Finishing School has a fully structured building along with state of the art

infrastructure, is combined to create a platform providing functional suitability and personal comfort. A well equipped computer lab enables the students to take learning from the classroom to the World Wide Web and study and practice through self learning tools. A large multimedia Audio Visual Theater creates just the right ambience for large group activities and Industry talks and events.

The following are the glimpse of practices followed at Sphoorthy Finishing School:

- Orientation for faculty to ensure compatibility with latest development tools and methodologies
- Code of conduct for students and faculty members, including professional ethics and social responsibilities
- Periodic review of student performance
- Corrective measures identification for performance enhancement of students
- Periodic industry visits and seminars by industry leaders
- Resume preparation
- Student motivation practices
- Conducting mock interviews for equipping students with necessary interview facing skills
- Live project execution
- Presentation skills
- Unlimited access to labs for practice sessions

6. DEPARTMENTAL ACTIVITIES

a. DEPARTMENT OF COMPUTER SCIENCE ENGINEERING:

The Department was started from the inception of the College i.e, in the year 2004 with an intake of 60 students and raised its intake to 180 students from the year 2011. M.Tech (CSE) course was started in the year 2009 with an intake of 18 students and raised its intake to 36 students from the Academic Year 2011-12. Mr.V. Hari Prasad, is the Head of the Department.

- a. The Department of State of Art laboratories with dedicated 12 MBPS

Internet Connections

- b. It facilitates students teaching learning programme by supplying Handouts and study materials in the forms of PPTs, Notes, Session Plan, reference websites etc.,
- c. The Department developed a Student Portal “VIDYA” which is an intranet based application with an aim to provide information to the students of Sphoorthy Engineering College about their Curriculum, view Video Lectures,, Online assignments and take Online tests
- d. **Globalarena E Mentoring Systems** GEMS - students can improve their skills with respect to Soft skills, Communication Skills, Pre placement and corporate readiness during their four years of study
- e. **Sphoorthy Student Forum** is a common platform developed to enable the students to post/share information related to Examinations, Results, Events, Activities etc.,
- f. The Department inaugurated CSI and ISTE professional bodies to cater the needs of the students in Research, Knowledge sharing, advanced learning and career enhancement and simultaneously inspiring and nurturing new entrants into the Industry and helping them to integrate into the IT Community Paper Publications by students and faculty members
- g. Events like E-CLAT, Workshops on Adobe Flex, Information security and Real Time Linux by e-swetcha, Mobile was organized
- h. A Conference on “Ethical Hacking by Mr.Ankith Fadia” was conducted
- i. A Seminar on SAP, Flex, .Net, JAVA, Android, PHP were organized for the benefit of students
- j. Final Year Students went to North India for a 10 days Industrial Tour in the month of January, 2011
- k. To bring out the hidden talents of students, Project Expo was organized to exhibit their innovations and best 3 projects will be forwarded to JNTU Techno fest.
- l. 34% of outgoing batch students got admission in various abroad universities to pursue higher education.

b. DEPARTMENT OF ELECTRONIC AND COMMUNICATION ENGINEERING:

The department of ECE was established in 2004 with an intake of 60 students in the UG programme. The intake was enhanced to 120 and now strengthened with an intake of 180 students. The department also runs a post graduate programme, M. Tech., (ECE) with an intake of 36 students.

Mr. Kalandhar Basha is the Head of the Department.

The following Seminars were organized for the benefit of the students:

- A Guest Lecture for II ECE Students for EDC subject by Dr.G. Kanaka Durga
- Guest Lecture for III ECE Students for AWP subject by Mr.N. Ashok Kumar
- Guest Lecture for IV ECE Students for Satellite Communication by Mr.C. Rajendra
- Major Projects are carried by our IV ECE Students in collaboration with GJ Embedded Systems, Hyderabad.
- Two students of ECE Final Year stood at II Place in National Level Technical Fest organized by JNTU, Hyderabad in the year 2011.

c. DEPARTMENT OF INFORMATION TECHNOLOGY:

The Department of Information Technology was established in the year 2004 with an intake of 60 students. Information Technology is a fast growing discipline and is full of rigorous practical analysis.

The department has well equipped laboratories and logical reasoning is stressed in all practical applications. Mr.G.V. Prasad is the Head of the Department.

The following are the programmes organized by the department:

- Quick Buck - An Intra College Quiz Programme was organized on 26/3/2010 and Dr.J. Madhavi Kumari, Academic Co-ordinator and

Planning, JNTU was the Chief Guest of the day

- DHII, a two day Technical Fest was conducted on 28/9/2010 with Events namely SCIENTIA, AUNUTIO, CONFERO etc., with the students from more than 60 colleges has participated in the Fest
- A Guest Lecture on “Data Mining and warehousing” was arranged on 20/1/11 for III Year Students
- A Seminar on “Data Communication and Networking” was organized on 29/1/11
- A Guest Lecture on “operating System in real Trends” was arranged on 22/1/11
- A Seminar on “automata theory and compiler design” was arranged on 23/11/11 and Mr. Uma Shankar, DRDO Scientist, Hyderabad was the Chief Speaker of the Day.

d. DEPARTMENT OF MECHANICAL ENGINEERING:

Mechanical engineers are recognized for their knowledge and skills in conceiving, designing, implementing and operating devices, machines, engines, energy systems and a host of other working things.

The Department was started in the Academic year 2009-2010 with initial intake of 60 students. Mr. Naresh Kumar is the Head of the Department.

Students Development Programme :

Department has conducted many guest lectures for the benefit of students.

Mechanical III/IV- 1 Semester .

Subjects Dates of Guest Lectures

DMM-I 10th and 11th October 2011

DOM 17th and 18th October 2011 & 24th and 25th October 2011

Mechanical II/IV -1 Semester

Subject Dates of Guest Lectures

MOS 26th and 27th November 2011 & 7th and 8th November 2011.

Extra curricular activities :

1. Ayuda Pooja for newly established Labs On 4th October 2011.
2. NSIC Camp (Work shop on Entrepreneurship Development) on 1st March 2012.

Students achievements :

Mechanical III Year :

- B.Tarun Raj has participated in Robo Event (Multi Terran) and won 1st Prize at TKR ENGG. COLLEGE.
- Mani Rathnam has participated in Robo Event (Multi Terran) and won 1st Prize at ACE ENGG. COLLEGE.
- M.Srikanth has participated in Ambassador Engine Assembly and got Participation certificate at NALLAMALLA REDDY ENGG. COLLEGE.
- .N.Sudhakar Reddy has participated in Robo Event (Multi Terran) and won 1st Prize at TKR ENGG. COLLEGE

Mechanical II Year:

- G.Sai Kiran has participated in Automobile Workshop and got Participation certificate at TKR ENGG. COLLEGE, and participated in Open Engine Work shop and got Participation certificate at SUPRABATH ENGG. COLLEGE, and participated in Work shop on Glider's (flying event) and got Participation certificate at VIGNAN ENGG. COLLEGE.
- V.Sai Karthik has participated in Automobile Workshop and got Participation certificate at TKR ENGG. COLLEGE.
- K.Kaushik has participated in Open Engine Work shop and got Participation certificate at SUPRABATH ENGG. COLLEGE.
- A.Shivaji has participated in Automobile Workshop and got Participation certificate at TKR ENGG. COLLEGE, and has participated in Open Engine Work shop and got Participation certificate at SUPRABATH ENGG. COLLEGE.
- B.Shravan has participated in Robotics Work shop and got Participation certificate at BHARATH ENGG. COLLEGE and has participated in Robotics Work shop and got Participation certificate at CVR ENGG. COLLEGE, and

participated in Work shop on Glider's (flying event) and got Participation certificate at VIGNAN ENGG. COLLEGE.

- G.Shashak has participated in Work shop on Glider's (flying event) and got Participation certificate at VIGNAN ENGG. COLLEGE.

e. DEPARTMENT OF CIVIL ENGINEERING:

Mr. Naveen Kumar is the head of Civil Engineering Department and the civil engineering programs are fiercely competing for outstanding faculty and on going student activities, making endowed and professorships the core building blocks for the department's future. Competition for the top students is also intense. The creative synergy between faculty and students defines a program and makes great things happen - the most promising graduate students are drawn to nationally recognized faculty and exciting research opportunities. In turn, the best faculty is eager to join institutions with brilliant students who can help drive research forward.

College management has helped to face these challenges and play an important role in the effort to attract and retain the most outstanding facilities, to compete for the best graduate students, and to ensure state-of-the-art laboratories. Every event is critical and provides important resources that have direct impact on day-to-day teaching. And regularly provided expert lectures deliver and guest lectures improves the student firsthand knowledge of the challenges facing most developing their future.

Seminars/Workshops/Short Term Courses Organized For Students

- 3rd year civil students attended a one day workshop on entrepreneur training at NSIC, Hyderabad on 01/03/2012.
- A Workshop was conducted in NAC at Madapur, Hi-tech city in April 2011

Expert lectures delivered:

- One day expertise lecture deliver on Environmental Impact Assessment by esteemed Professor of Osmania University in Nov 2011.

Guest Lectures Delivered:

- Civil IIIrd year students are utilized the benefits of guest lectures for last semester III-I for the subjects WRE and CT subjects
 - a. Prof. Ravi Shekar has been taken guest lectures for Civil III for Water Resources Engg. In Sep/Nov 2011
 - b. Prof. Prasanth Kumar has been take guest lectures for civil III for Concrete Technology in Sep/ Nov 2011

- Civil IInd year students are attended the guest lectures for the subject surveying in the month of Septmber, 2010
 - a. Prof. Prasanth Kumar has been take guest lectures for civil III for strength of material in Sep/ Nov 2011

Any Other Academic Achievement/Awards/Honors :

- a) III year students of the civil department achieved 75 pass percentage of in III-I semester which is the top most result in college in last semester 2011-12.

f. DEPARTMENT OF HUMANITIES AND SCIENCES:

Engineering is the application of science in the real world and like any other branch of study it requires a strong foundation in basic Science & Humanities. It is playing an important role in providing valuable inputs on the engineering disciplines, professional ethics, skill developments like sharpening analytical and practical reasoning, problem solving and communicating. Mr. V. Appaji is the Head of H & S Department.

The Following Programmes were organized for the Overall development of B.Tech I Year Students:

- Personality Development Programme by Mr. Akella Raghavendra, RKMATH on 17/11/11
- Guest Lecture on “How to set Goals?” by Dr.M.L. Sai Kumar, Professor, Institute of Public Enterprises, Osmania University on 23/11/11
- Motivation Programme on “How to overcome stress and strain”? by Mr.V. Nagesh, Psychiatrist on 2/12/11

- All the I Year Students attended one day Orientation Programme at Rama Krishna Mutt on 22/12/11.

g. DEPARTMENT OF ENGLISH:

The Department of English always plays a major and active role in the campus and striving for enrichment of the language and providing in depth aesthetic knowledge and an eagerness to appreciate the language in its ingenuity to the students. Dr.B. Rama Chandraiah is the Head of English Department.

The Faculty members actively involved in all the co-curricular and extra-curricular activities especially in al the college related activities like Editorial Board Members, Organizing various Events like Techno Fest, Annual Day, Republic Day, Independence Day etc.,

On 19/1/2012, The Department lost an invaluable asset Mrs.Vrinda C.G. in a road accident who was the founder Chairperson of Sphoorthy Engineering College Women's Chapter and Convener for Sphoorthy Engineering College Recreation Club. Our Engineering College pays homage to her soul and may her soul rest in peace.

h. DEPARTMENT OF MANAGEMENT STUDIES:

The Department of Management Studies was started in the year 2007 with an intake of 60 students and offering MBA Programme with Finance, Marketing and Human Resources Specializations.

The MBA department is endeavoring to carve a niche for itself amongst the Business-Schools in the state in providing the best training to the prospective managers. Mrs.P. Kalyani is the Head of MBA Department.

- A Seminar on “Retail Revolution in India” in association with Indian Retail School was organized on 15/9/11 for MBA II Year Students
- Workshop on “Communication Skills and Personality Development” was organized on 16/11/11 for MBA I and II Year Students in collaboration with Speakeazy
- A Seminar was organized on 22/11/11 for MBA I and II Year Students on “Motivation”, Mr. Jeevan Gupta, Uni-why Society is the Speaker.

- Guest Lecture on “HR Strategies” was delivered by Mr. S.J.S.N. Kishore, Managing Director, Elina Informatics to MBA I and II Year Students, on 10/12/11
- A Seminar on “Professional Development of MBA Students” was organized for MBA I and II Year Students on 21/12/11, Dr. Maha Gingrich, Dean, Marketing Services and Customer Relations, Piedmont University, Charlotte, USA is the Speaker of the day.
- A Workshop on “Goal Setting” was organized for MBA I and II Year Students on 11/1/12, Mr. V.V. Sanyasi Rao, FAPCCI, is the speaker of the day.
- MBA I and II Year students attended, “Entrepreneurship Development Programme” at National Small Industries Corporation on 14th March, 2012.

Departmental activities:

- The Department of Management Studies becomes an Institutional Member of Hyderabad Management Association from Academic Year 2011-12 onwards which facilitated Faculty Members and Students to participate in various Seminars/Workshops.
- 17th December, 2011 marked an important event in the History of Department of Management Studies, which welcomed students from all walks of management by organizing an Inter-Collegiate Management Festival, SAVYASAACHI’11. The Students of MBA showcase their abilities in approaching sponsors and raised Cash sponsorship to an amount of Rs.33, 000 and Rs.10, 000 worth of Gift Sponsorship for Organizing the Event. The students further proved their competencies through wide promotion of the Event to different colleges and by which the event was successful with about 800 participants from 90 different colleges participated in the Event. Prof. Dr. A. Rama Chandra Aryasri graced the occasion as the Chief Guest of the Valedictory Function.
- A Student Development Programme in association with Hyderabad Management Association was organized on 19/1/2011 on “Media Platforms for Advertising – A Growth story” Mr. Rama Rao, Marketing Head, and Mr. Ramesh Vemuganti, President, Hyderabad Management Association were the Chief Guest of the day.

Industrial visits:

- The students of MBA II Year visited “Central Institute of Plastics Engineering and Technology”, Hyderabad on 17/11/11.
- The students of MBA II Year went for 1 day training and survey to Big Bazaar, Spencers, Metro outlets to observe different models and strategies of Retail Management.

Student’s achievements:

- The students of MBA Participated in Inter-Collegiate Management Festival, “Amogha” at Sree Datta Engineering College on 5th and 6th January, 2012 and won the I Prize in Young Manager Contest, Dance Competition, New Business Idea, Ad Making Competitions and II Prize in Documentary Film Making.
- MBA I Year Students also won I Prize in “Quiz competition” organized by Anna University, in an Event named Xceed, and won Rs.5000 Cash Prize.

7. FACULTY ENDEAVOURS:

The faculty members of Sphoorthy Engineering College are the Invaluable assets of the College and the Management and Principal appreciates the commitment and dedication of the Faculty Members towards establishing a culture of learning and growth in the College.

FACULTY DEVELOPMENT PROGRAMMES:

It is a regular practice in the College to organize Faculty Development Programmes for the betterment of Teaching Quality, Classroom Management and Performance Development of the faculty members.

The following FDPs are conducted during the Academic Year:

- A Faculty Development Programme was organized by Wipro Mission 10X on “High Impact Teaching skills” during 16th to 20th May, 2011. 32

Faculty Members were trained from the programme.

- Two days FDP was organized on 29 and 30 June, 2011 at Rama Krishna Mutt and 52 Faculty Members have taken the benefit.
- On 1st July, 2011 A Seminar on “Seven Habits of Highly effective Teacher” was organized and the Guest Speaker was Prof.A. Ramakrishna Prasad, Director, UIIC, JNTUH.
- A Personality Development Programme on “Mind and Body Management”, “Stress Management “ and “Confidence – key to success” was organized in collaboration with Vivekananda Institute of Human Excellence, Ramakrishna Matt, Hyderabad was organized from 30th June to 2 July, 2011 for non teaching staff.
- A Faculty Development Programme was organized by Wipro Mission 10X Advanced Workshop on 12th and 13th August, 2011. 30 faculty members were selected for the programme.
- The Principal Organized a Seminar on “What is Research? How to publish Research Paper” to the Faculty Members on 24/09/11.
- A Faculty Development Programme has been arranged on 22/12/2011 by Dr.B. Mukhopadhyaya, Retd. Professor and Head, Department of Educational Management and Applied Psychology, NITTTR, Chennai on “Counseling the students”.

FDPs Attended:

- Prof. Dr. V. Chandra Mouli, Principal, Sphoorthy Engineering College attended a Three Layer advanced Academic Leadership Programme at Academic Staff College of India, Bella Vista:: Hyderabad from 28-3-2011 to 30-03-2011
- Prof.Dr.V. Chandra Mouli has attended, II Phase of Academic leadership Bridge Programme at Wipro, Bhuvaneshwar on 15th and 16th July, 2011 and successfully completed 5 webinar conducted by Harward Business School which makes eligible for III and Final Programme.
- The Principal further attended Advanced Academic Leadership Workshop held at Wipro Technologies, Bangalore organised by Mission 10X Wipro

Technologies from 5-8 September, 2011, the completion of which signify
“in pursuit of excellence in engineering education through innovation”

- Ms. G. Swathi, Mr.G.Venkateswarulu and Mr. Suraj Mohan, Faculty Members, Civil Engineering Department attended E training workshop conducted by JNTUH on 2nd July, 2011
- Mr.P. Sri Harsha participated in a Faculty Development Programme on “Scaling up of Management Faculty - Contemporary Methods” organized by Hyderabad Management Association.

RESEARCH ACTIVITIES:

Prof. Dr.V.Chandra Mouli, Principal, Sphoorthy Engineering College stood as role model to all the faculty members as a Continuous Learner by showing his taste and putting his efforts in Research Works. The following are the details of Research Papers accepted and Published in various Reputed National/International Journals.

- 1) **Vibrational, EPR and optical spectroscopy of the Cu²⁺ doped glasses with (90-x)TeO₂-10GeO₂-xWO₃ (7.5 ≤ x ≤ 30) composition** Original Research Article
Journal of Non-Crystalline Solids, Volume 357, Issue 3, 1 February 2011, Pages 903-909
G. Upender, M. Prasad, V. Chandra Mouli
- 2) **The structural and spectroscopic investigations of ternary tellurite glasses, doped with copper** Original Research Article
Journal of Alloys and Compounds, Volume 509, Issue 19, 12 May 2011, Pages 5887-5892
G. Upender, Ch. Sameera Devi, V. Kamalaker, V. Chandra Mouli
- 3) **Raman spectroscopy, thermal and optical properties of TeO₂-ZnO-Nb₂O₅-Nd₂O₃ glasses** Original Research Article
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Volume 89, April 2012, Pages 149-154
V. Kamalaker, G. Upender, Ch. Ramesh, V. Chandra Mouli

- 4) **ESR, optical absorption, IR and Raman studies of $x\text{TeO}_2 + (70 - x)\text{B}_2\text{O}_3 + 5\text{TiO}_2 + 24\text{R}_2\text{O}:1\text{CuO}$ ($x = 10, 35$ and 60 mol%; $\text{R} = \text{Li, Na}$ and K) quaternary glass system** Original Research Article
Materials Research Bulletin, Volume 47, Issue 3, March 2012, Pages 724-731
 S. Suresh, P. Gayathri Pavani, V. Chandra Mouli
- 5) **Structure, glass transition temperature and spectroscopic properties of $10\text{Li}_2\text{O}-x\text{P}_2\text{O}_5-(89 - x)\text{TeO}_2-1\text{CuO}$ ($5 \leq x \leq 25$ mol%) glass system** Original Research Article
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Volume 89, April 2012, Pages 39-45
 G. Upender, J. Chinna Babu, V. Chandra Mouli
- 6) **Thermal stability and transport studies of $(100 - 2x)\text{TeO}_2-x\text{Ag}_2\text{O}-x\text{WO}_3$ ($7.5 \leq x \leq 30$) glass system** Original Research Article
Materials Research Bulletin, Volume 46, Issue 2, February 2011, Pages 199-204
 G. Upender, Ch. Ramesh, V. Chandra Mouli
- 7) **Optical, thermal and electrical properties of ternary $\text{TeO}_2-\text{WO}_3-\text{PbO}$ glasses** Original Research Article
Journal of Molecular Structure, Volume 1006, Issues 1-3, 14 December 2011, Pages 159-165
 G. Upender, V. Chandra Mouli
- 8) **DSC, ESR and optical absorption studies of Cu^{2+} ion doped in boro cadmium tellurite glasses** Original Research Article
Journal of Alloys and Compounds, *In Press, Accepted Manuscript*, Available online 3 March 2012
 P. Gayathri Pavani, M. Prasad, V. Chandra Mouli
- 9) **AC conductivity and impedance measurements in alkali boro-tellurite glasses** Original Research Article
Journal of Non-Crystalline Solids, Volume 356, Issues 31-32, 1 July 2010, Pages 1599-1603
 S. Suresh, M. Prasad, V. Chandra Mouli

- 10) **Studies on boro cadmium tellurite glasses** Original Research Article
Optical Materials, Volume 34, Issue 1, November 2011, Pages 215-220
 P. Gayathri Pavani, S. Suresh, V. Chandra Mouli
- 11) **Raman spectroscopic characterization of tellurite glasses containing heavy metal oxides** Original Research Article
Physica B: Condensed Matter, Volume 405, Issue 5, 1 March 2010, Pages 1269-1273
 G. Upender, Vasant G. Sathe, V. Chandra Mouli
- 12) **Structure, physical and thermal properties of WO₃-GeO₂-TeO₂ glasses** Original Research Article
Materials Chemistry and Physics, Volume 121, Issues 1-2, 15 May 2010, Pages 335-341
 G. Upender, C.P. Vardhani, S. Suresh, A.M. Awasthi, V. Chandra Mouli
- 13) **Optical, physical and structural studies of boro-zinc tellurite glasses** Original Research Article
Physica B: Condensed Matter, Volume 406, Issues 6-7, 15 March 2011, Pages 1242-1247
 P. Gayathri Pavani, K. Sadhana, V. Chandra Mouli
- 14) **Glass transition temperature-structural studies of tungstate tellurite glasses** Original Research Article
Materials Chemistry and Physics, Volume 118, Issues 2-3, 15 December 2009, Pages 298-302
 G. Upender, Suresh Bharadwaj, A.M. Awasthi, V. Chandra Mouli
- 15) Infrared Spectroscopic Characterization of Tellurite Glasses Containing Heavy Metal Oxides SRX Physics • Volume 2010 • Article ID 927056 • doi:10.3814/2010/927056 **G. Upender, C. P. Vardhani, V. Kamalaker and V. ChandraMouli**
- 16) Infrared TeO₂-ZnO—NaF glass system, Indian journal of pure and applied Physics, Vol.48, Oct 2010, pp.709-715. V.Kamlaker, G.Upendar, M. Prasad and V. Chandra Mouli

- 17) EPR, Raman, infrared and optical absorption studies of Cu^{2+} ions in $60\text{TeO}_2-(40-x)\text{WO}_3-x\text{PbO}$ glasses Phys. Chem. Glasses: Eur. J. Glass Sci. Technol. B, December 2009, 50 (6), 399–406 G. Upender, V. Chandra Mouli
- 18) ESR, IR and Optical absorption studies of Cu^{2+} ion doped in $60\text{B}_2\text{O}_3-10\text{TeO}_2-(30-x)\text{MO}-x\text{PbO}$ (M=Zn, Cd) glasses, Indian journal of Pure and Applied Physics Vol.47 Aug 2009 pp. 551-556 G. Upendar, V. Kamalakar, C.P. Vardhani and V. Chandra Mouli.
- 19) ESR, IR, Raman and optical absorption studies of $60\text{B}_2\text{O}_3+10\text{TeO}_2+5\text{TiO}_2+24\text{R}_2\text{O}:1\text{CuO}$ (where R=Li, Na, K) quaternary glasses, Indian journal of Pure and Applied Physics Vol.47, 2009, pp 163-169.

FACULTY RESEARCH ACTIVITIES:

- The following faculty members enrolled for Ph.Ds from various departments:

| NAME OF THE FACULTY | DEPARTMENT |
|----------------------------|-------------------|
| i. Mr. Sridhar | ECE |
| ii. Mr. Hari Prasad | CSE |
| iii. Mr. Srujan Raju | CSE |
| iv. Mr. B. Rama Krishna | CSE |
| v. Mr. Appaji | H&S |
| vi. Mr. Srinivasa Reddy | H & S |
| vii. Mr. Pradeep Kumar | H&S |
| viii. Mr. Sri Harsha | MBA |
| ix. Mrs. Kalyani | MBA |
| x. Mrs. Kiranmayee | English |

- Mr. Yogesh and Mr. Rama Bhadra Murthy, Faculty, Department of H&S, qualified with UGC-NET Examinations
- Mr. A. Nagarjuna and Ms. Vasuja Devi, Faculty, ECE Department are qualified with Faculty Eligibility Test conducted by JNTU, Hyderabad
- Mr. Hari Prasad, HOD - CSE presented a Research Paper on “Compaction of DNA for repetitive and non repetitive sequences using pairing group

binary compression techniques – A Novel Algorithm” in IEEE 2012 proceedings.

- Mr. Hari Prasad, HOD – CSE presented a Research Paper on “Fast and Efficient DNA Compression using SBC Techniques – A Novel Approach” and it is published by CIIT Journal with Impact factor.
- Mr. V. Hari Prasad, HOD-CSE, presented a research paper on “Pattern Discovery through pattern matching in video mining era” at Andhra University, Visakhapatnam.
- Mr. D. Kishore, Faculty, ECE Department, published a paper on “Performance on Wireless Networks” in IRJSP and another paper on “AES” in IRJSW.
- Mrs. Kalyani, HOD – MBA, Participated in two day Seminar on “Management Education in India - Opportunities and Challenges” (Focus on Rural Institutions)” organized by Telangana University on 21st and 22nd October, 2011 and presented a Paper on “Knowledge Management”.
- Mrs. Kalyani, HOD – MBA presented a Research Paper on “Brand Management in Financial Services” in a two day National Conference on “Brand Management – A Strategic Tool for Corporate Success” organized by Hyderabad Central University, on 23-24 February, 2012.
- Y, Naveen Kumar, HOD – Civil Department (2011) Paper Presentation at IIT MADRAS Paper selected for AMTID-2011 International Conference at NIT CALICUT “ Early Prediction of Strength of Fly Ash Concrete Mixes of Any age” (RefNo. C019).

8. STUDENTS TRIUMPHS

SPORTS:

- On 2nd August, 2011, Engineering Students participated in a cricket match organized by Bandari Srinivas Institute of Technology and reached Semi Finals.
- On 11th August, 2011, Engineering Students participated in an Inter Collegiate Tournament, organized by Aurora’s Scientific Research and

- Technology and reached VI round in Cricket Match; Quarter finals in Volley Ball Tournament; II Place in Caroms; Ravi Reddy and Sakith of IV ECE, secured III Place in TT
- The students qualified in Semi-finals in Cricket tournament and IV Place in TT Competition organized by Scient Engineering College on 19th September, 2011
 - The students qualified in Semi-finals in Cricket organized by JNTUH and Rajendra Prasad , IV ECE secured IV Place in Athletics 400 mts. Running race.
 - On 2nd August, 2011, Engineering Students participated in a cricket match organized by Bandari Srinivas Institute of Technology and reached Semi Finals.
 - On 11th August, 2011, Engineering Students participated in an Inter Collegiate Tournament, organized by Aurora's Scientific Research and Technology and reached VI round in Cricket Match; Quarter finals in Volley Ball Tournament; II Place in Caroms; Ravi Reddy and Sakith of IV ECE, secured III Place in TT
 - The students qualified in Semi-finals in Cricket tournament and IV Place in TT Competition organized by Scient Engineering College on 19th September, 2011
 - The students qualified in Semi-finals in Cricket organized by JNTUH and Rajendra Prasad, IV ECE secured IV Place in Athletics 400 mts. running race.
 - The students qualified in III Round in Cricket and reached Semi-finals organized by Vishwa Bharati Engineering College, on 7th November, 2011.
 - The students qualified in V round in Cricket at Eenadu Champion's trophy organized on 3rd January, 2012.
 - The students qualified in IV round at JNIT Cricket competition organized on 4/2/12
 - The students qualified in III round of Volleyball tournament at Srinidhi Institute of Science and Technology
 - Dinesh of IV Year stood at IV Place in Badminton and Rajendra Prasad, IV Year secured III Place at All India Inter Collegiate Torunament organized by VNR Vignana Jyothi Institute of Engineering on 1st March,. 2012.

OTHER INSIGHTS:

- A Talent Hunt show was conducted by Times of India, Best Male and Female Students Fresh Face of Hyderabad on 7th January, 2012. 3 Boys and 3 Girls students are qualified for Finals.
- A Seminar on “Sankranthi Vaibhavam and Dhi Shakti” was organized by Sri Venkateswara Bhakti Channel at the College Campus on 09/1/2012 and all the students actively participated and presented views on given issues and the programme has been specially telecasted on 16/01/2012.

9. FACILITIES

Campus

Sphoorthy Engineering College is located 10km from Dilsukhnagar, Being within the city limits it is privileged with a cosmopolitan atmosphere. A soothing pollution free ambience gives a pleasant feeling of serenity peace and ensures that the college is untouched from communal disturbances. The Campus is well built in 10.5 Acres.

“Go Green” is the Motto of our college this year.

Class Rooms: State of Art Infrastructure and all the Class rooms are well equipped with LCD Facility.

Laboratories:

The following are the important laboratories established for Mechanical Engineering Students:

MECHANICAL ENGINEERING LABORATORIES:

(i) Engineering Work Shop:

Basic Engineering Workshop is the heart of the Mechanical engineering. It provides the knowledge of carpentry, black smithy, house wiring, tin smithy and fitting shops. Equipment worth Rs. 64,607/- was spent for the Lab.

Name of Equipment

Carpentry Tools

Fitting Tools
Tin Smithy Tools
House wiring Tools
Plumbing Tools
Welding Transformer

(ii) Metallurgy Lab:

Materials play an important role in the manufacturing field. Metal structure is studied using various preparatory techniques with the help of microscope. Equipment worth Rs. 1,79,617/- available with the Lab.

Name of Equipment

Double Disc Polishing Machine
Jomney End Quench apparatus
Metallurgical Microscope
Belt Grinder
Muffel furnace
Sample set
Storage box for sample
Hair dryer

(iii) Mechanics of Solids Lab

Strength and rigidity plays a vital role in the design and performance of a machine. Mechanical physical characteristics of tensile and impact strength, deformation and hardness of various metal materials are estimated in this laboratory. Equipment worth Rs. 2,79,440/- available with the Lab. It was established on November 2010.

Name of Equipment

Compression Test Machine
Torsion Testing Machine
Izod Impact Testing Machine
Rock Well Hardness / Brinell Hardness Testing Machine
Spring Testing Machine

Load Vs Deflection Study on Simply supported beam

Load Vs Deflection study on cantilever beam

(iv). Production Technology Lab

Casting is one of the important manufacturing process. Pattern making is the first stage of casting process. In this laboratory student will be trained for the sand preparation, mould formation, pattern making and casting the component. Welding is another important area of fabrication and metal joining process. Performance of various welding process under different conditions are studied in this laboratory. Present world is full of plastics. Manufacturing process related to plastics named as injection and blow moulding process provide the sound knowledge to the student with the experiments on these equipment. Equipment worth Rs. 4, 42,941/- available with the Lab. It was established on December, 2010.

Name of Equipment

Mould Hardness Tester

Mould / Core Sand Muller

Foundry Tools

Injection Moulding Machine

Hydraulic Press Machine

Arc Welding equipment setup

Spot welding Machine

Welding Tools

Black smith Tools

Wood Turning Lathe

(v) Fluid Mechanics Lab

Fluid mechanics lab is the conventional core lab for the mechanical, civil and chemical engineering students. The basic principles of fluid mechanics are studied in the second year course of engineering. “The Flow Pattern and Losses in the Flow Process” are evaluated in this laboratory using various equipment. Bernoulli’s and Reynolds equations are the prime equations in the field of fluid mechanics. Those equations are proved

through experiments in this laboratory. Equipment worth Rs. 3, 06,700/- available with the Lab.

Name of Equipment

Pipe friction set up
Bernoulli's Apparatus
Losses in Bend and Elbows
Reynolds's Apparatus
Notch tank
Venturimeter
Orifice meter
Measuring Instruments
Taco meter
Stop watch

(vi)Hydraulic Machines Lab

Turbines are the main source of power generation in the hydraulic energy . The performance of turbine is function of the blade angles and other parameters. In this laboratory student will evaluate the efficiency of the turbines under various loads. Efficiency of pumps are evaluated for given discharges. Equipment worth Rs. 9,08,800/- available with the Lab. It was established on November 2010.

Name of Equipment

Centrifugal pump
Multistage centrifugal pump test rig
Reciprocating pump test rig
Impact of jet on vanes
Pelton turbine test rig
Francis turbine test rig
Kaplan turbine test rig

(vii) Thermal Engineering Lab

Thermal engineering laboratory is one of the important laboratories in mechanical engineering stream. This lab gives real hands off experience on the performance of 2 stroke and 4 stroke diesel and petrol engines. It also provides the basics of Refrigeration and air conditioning. The student will learn the actual performance of various automobile parts by studying the cut models of the real parts. Equipment worth Rs. 7,06,112/- available with the Lab. It was established on July 2011.

Name of Equipment

Cut – section model of a 4 – stroke Diesel Engine

Cut – section model of a 2-stroke Petrol Engine

2-stroke, Single cylinder, petrol Engine

Exhaust gas calorimeter

2-stage Reciprocating Air Compressor

4-stroke, single cylinder, Diesel Engine

Exhaust gas Calorimeter

4-stroke, single cylinder Petrol Engine

(viii) Machine Tools Lab

Machine tools lab is one of the prime lab in the School of Mechanical Engineering. Conventional center lathe are available in this laboratory. Various machining operations on lathe named as step and taper turning, facing, drilling, boring and thread cutting are carried. Shaping, grinding, milling and indexing operations are performed on various machine tools. Equipment worth Rs. 7,82,200/- available with the Lab. It was established on July 2011

Name of Equipment

Lathe Machine (Modle 3 no's)

Milling Machine

Shaper Machine

Slotting Machine

Surface Grinding Machine
Drilling machine
Tool and Cutter
Power saw cutting Machine
Pedestrial Grinding Machine
General Tools

(ix) Metrology Lab

Manufacturing is a part of production engineering. Dimensions of the produced component is very important for the quality product. Various measuring tools are used in industry to obtain the dimensional accuracy of a component. Student will be provided with the real experience using those instruments to measure and assure the quality of product. Gauges are used in mass production to improve the quality assurance with less effort and time. All these techniques will be learned practically with the help of bore gauges, ring and plug gauges etc.. Equipment worth Rs. 1, 07,890/- available with the Lab. It was established on July 2011.

Name of Equipment

Vernier Calipers
Internal Micrometer
Micrometer
Tool maker Microscope
Dial Bore Indicator
Sine Bar
Slip Gauges
Pitch screw Gauges
Vernier height Gauge
Cast Iron Surface Plate
18” inches Straight edge
Dial Indicator with stand
Engineering Thickness Gauge

Engineering Wire Gauge
Engineering Taper Gauge
Filler Gauge
Combination set
75x50x50 –V- Block

(x) HEAT TRANSFER Lab

Heat Transfer lab helps the students to understand basics by applying fundamental of Conduction, convection and Radiation. Simple tools are used to measure parameters in Heat transfer and to check Theoretical v/s Actual Values. Techniques of Heat transfer are implemented for heat exchanger and applications for Design/Modifications of equipments. Equipment worth Rs. 3,37,973/- available with the Lab. It was established on December 2011.

Name of Equipment

Emissivity Equipment
Stefan Boltzman's constant Equipment
Parallel and Counter flow heat exchange Equipment
Heat transfer through composite walls Equipment
Heat transfer through Lagged pipe Equipment
Thermal conductivity of metal bar Equipment
Heat transfer from Pin- Fin Equipment
Heat transfer through Forced Convection Equipment
Heat transfer through Natural Convection Equipment
Critical Heat flux Equipment

(xi)CAD/CAM Lab

Manufacturing of Machine parts and components is carried out with the help of drawings. Computer aided design and drafting is a powerful technique to create the drawings. Several software packages are used in CAD Lab to create such drawings, wire frame modeling, surface modeling and solid modeling using computers. Production equipment with computer numerical control is a major component of CIM. For manufacturing a

component, the CAD/CAM process generates a program, which can run on the CNC machine. Equipment worth Rs. 26, 88,685 available with the Lab.

Name of Equipment

CADian Mech (32 user) CAFEEM + FEMAP

Computers

CIVIL ENGINEERING LABORATORIES:

SURVEYING LAB

For civil engineering surveying has been employing various techniques to survey the land around us. Civil engineers has been using varied and archaic means of surveying the land. Land surveying has been done where these means of measuring included using lengths of chain to measure the distance from one spot to the next. However, we also have the tools of the trade have become much more updated and technologically advanced equipments.

1. Chains, tapes, Ranging rods, cross staff, arrows
2. Compasses and Tripods, Optical square.
3. Plane tables, Alidade, Plumbing fork, trough compasses
4. Leveling instruments and leveling staves
5. Box sextants, planimeter.
6. Theodolites, and leveling staffs.
7. Tachometers.
8. Total station.

ENGINEERING GEOLOGY LAB

Engineering geology is the application of the geologic sciences to engineering practice for the purpose of assuring that the geologic factors affecting the location, design, construction, operation and maintenance of engineering works are recognized and adequately provided for. Engineering investigate and provide geologic and geotechnical recommendations, analysis, and design associated with human development. The realm of the engineering geologist is essentially in the area of earth-structure interactions, or

investigation of how the earth or earth processes impact human made structures and human activities. Which includes the following requires;

1. Mega-scopic specimens of minerals
2. Mega-scopic specimens of rocks
3. Structural models of folds
4. Structural models of faults
5. Structural models of unconformities
6. Geological maps of Andhra Pradesh and India

GEOTECHNICAL ENGINEERING LAB

The Department of Civil Engineering provides comprehensive courses with professional knowledge in geotechnical engineering. The undergraduate program includes mandatory courses such as Soil Mechanics, Foundation Engineering, as well as elective courses such as Geotechnology in Engineering Practice, Foundation Design, Soil Engineering, and Rock Engineering. Undergraduate students may also take graduate elective courses such as Rock Mechanics, and Soil Dynamics. The Geotechnical Engineering graduate division provides over in a variety of specialties. In addition, a laboratory course is provided for undergraduate programs, allowing students to engage and learn through hands-on experiments.

Field observation is also an essential part in geotechnical engineering education. This activity allows students to familiarize themselves with the on-site operations of this field, and to understand the inseparable connection between analysis, design, and construction. Furthermore, students will also be more easily able to grasp the concepts, challenges, and passion of geotechnical engineering where the equipments worth around 2,50000 Rs.

1. Casagrande's liquid limit apparatus.
2. Apparatus for plastic and Shrinkage limits
3. Field Density apparatus for
 - a) Core cutter method
 - b) Sand Replacement method
4. Set of sieves: 4.75mm, 2mm, 1mm, 0.6mm, 0.42mm, 0.3mm, 0.15mm, and 0.075mm.

5. Hydrometer
6. Permeability Apparatus for Constant Head test
7. Universal Auto compactor for I.S light and heavy compaction tests.
8. Apparatus for CBR test
9. Sampling tubes and sample extractors.
10. Box shear test apparatus
11. Laboratory vane shear apparatus.
12. Hot Air ovens
13. Moisture cans – 2 dozens.
14. Electronic balances pf 500 g capacity with 0.01g least count and 5 kg capacity with least count of 1gm
15. Measuring Jars - 1000CC
16. Mercury - 500 g

FLUID MECHANICS LAB

The study of fluids at rest; fluid kinematics, the study of fluids in motion; and fluid dynamics, the study of the effect of forces on fluid motion. It is a branch of continuum mechanics, a subject which models matter without using the information that it is made out of atoms, that is, it models matter from a macroscopic viewpoint rather than from a microscopic viewpoint. Fluid mechanics, especially fluid dynamics, is an active field of research with many unsolved or partly solved problems. Fluid mechanics can be mathematically complex. Sometimes it can best be solved by numerical methods, typically using computers. A modern discipline, called computational fluid dynamics (CFD), is devoted to this approach to solving fluid mechanics problems. Equipment worth Rs. 3,06,700/- available with the Lab.

1. Venturi meter setup.
2. Orifice meter setup.
3. Rectangular and Triangular notch setups.
4. Friction factor test setup.
5. Bernoulli's theorem setup.
6. Impact of jets.

7. Reynolds's Apparatus
8. Hydraulic jump test setup.
9. Pelton wheel and Francis turbines.
10. Centrifugal and Reciprocating pumps.
11. Measuring Instruments
12. Taco meter
13. Stop watch

Library:

Sphoorthy Engineering College Library occupies a place of pride and is an essential component of the institute's outstanding research and education mission.. The mission of the Library is to facilitate creation of new knowledge through acquisition, organization and dissemination of knowledge resources and providing for value added services. All students, faculty members and employees of the Institute are permitted to make use of library facilities. The library has a huge collection of books on Engineering, Management, Science and Humanities offers library services through its various divisions. It is supported with 22,297 Volumes; 4,143 Titles; 3,142 National and International Journals; 2150 CD ROM's; 361 Projects; 8 Newspapers; 460 Back Volumes; 143 Magazines. It is a member of DELNET, the Digital Library is equipped with GEMS, NPTEL Lectures, VIDYA Portal, e-books and e-journals.

College Publications:

Sphoorthy Times is an innovative practice of the college where the articles of contemporary issues from various disciplines will be published and circulated within the college and e-version is also available in the website

The College has a best practice of publishing "RIPPLES" a half yearly College Magazine, furnishing the details of our accomplishments and realised during Independence Day and Annual Day Celebrations.

Gym:

On 3rd February, 2012 GYM was inaugurated by Prof. Gopi Krishna, Physical Director,

JNTU, Hyderabad. Rs.2,07,225 was spent for the equipment of the Gym for the physical fitness of the students. A Special Gym facility for girl students is opening shortly. The students can avail the facility at free of cost.

Canteen:

Canteen facility is available in the campus and all the food items are available at reasonable rates.

Bus Facilities:

The College has 15 buses, which are available to the students and staff for commuting from various parts of the city to the College campus and back. The College provides free transportation facility to the faculty members.

Health Centre:

The college has a Health centre with a full time Medical Officers. The Medical Officers and dispensary staff are available during the college. Students are advised to get themselves treated in the college health centre. Yoga practice is also available in the Campus after the College Hours to the faculty and students.

- Dental check up was arranged for all the faculty and students on 10/10/2011
- All the teaching and non teaching staff members are given Yoga training on 13/10/2011 by Mrs. Sarada, Yoga Therapist
- A Yoga programme has been organized to all the staff members on 14/10/2011
- A Seminar on “Awareness on Diabetics” has been organized by Mr.Laxmi Narayana, Retd. MD, Wstel Pharma, to all the Faculty Members.

10. THE ROAD AHEAD:

Eventually, we would like to present our plan for future course of action for advancement of our Academic Programmes:

- We aspire for 100% Placements for the benefit of student community.

- Campus Recruitment Training should be the part of the Academic Programme
- Continuous Faculty Development Programmes for enriching Faculty's teaching quality and Career enhancement
- Industry Institute Interface is scrupulously undertaken for preparing students for corporate requirements.
- Research and Development Cell will be more activated through special care and fund provision to aid Students and Faculty's advancement.
- The College would like to Collaborate with foreign Universities towards betterment.

To conclude,

We would like to thank all our Stake Holders, Parents, Students, Alumni, Various Departments of JNTUH, Delegates visited our Campus, Recruiters, Faculty Members, Management for entrusting a great responsibility on me and supporting me to carry out successfully.

Students, On Behalf of Management and Faculty "WE WISH YOU A GOLDEN FUTURE AHEAD".

THANKING YOU

PRINCIPAL
SPHOORTHY ENGINEERING COLLEGE