

**REPORT ON THE PROGRESS OF SREENIDHI INSTITUTE OF  
SCIENCE AND TECHNOLOGY FOR THE PERIOD FROM 22<sup>ND</sup>  
NOVEMBER, 2005 TO 3<sup>RD</sup> MARCH, 2006.**

- I. Grant of Autonomies: The Institution is of self financing type and it already enjoys the Managerial Autonomy, Administrative Autonomy and Financial Autonomy.

With regard to Academic Autonomy, some progress is made by submitting necessary applications to JNT University for giving permanent affiliation for all the courses which are eligible. This will help the Institution to get Autonomy from All India Council for Technical Education. In Principle, JNT University has accepted to give Autonomy to this College and it has already recommended to the Government of Andhra Pradesh for recommending the application for Autonomy to AICTE. The Government of Andhra Pradesh is reacting positively and necessary formalities to get Academic Autonomy will be completed in a short time.

With Academic Autonomy this Institution would revise syllabi as often as possible based on skills in demand in the Industries. This institution can then introduce courses like History of science and Technology, Economics and Industrial psychology, public policy, Intellectual property rights etc.

- II. Action on shortcomings reported by Auditors in Quality Performance Audit conducted in October, 2005.

**(A) PROJECT IMPLEMENTATION:**

Under Project implementation, there are 9 Parameters.

The performance of the Institution from 1 to 4 are found to be very good. The Parameters in which marks secured are less are from Item 5 to Item 9. Some observations were made in the last report about these parameters.

The status and recommendations with regard to the above items is now given hereunder:

**Item 5: Strengthening and Modernization of Academic Facilities:**

It was suggested that the existing CDs be placed on Computer Server of High Capacity. Purchase of Servers, as well as campus wise Networking are being procured now. National Competitive bidding procedure is adopted for the purchase of Computers and also for campus wise networking. The Institute has promised that the procurement process will be completed shortly and the CDs available now and new ones which would be procured soon from IIT, Kharakpur will also be placed on the Compus Server through campus wide networking.

**Item 6: Improvement in overall faculty competence and activities:**

College is deputing faculty and staff to various networking institutions and also to other institutions for training in specific areas of interest. Details are given in Annexure I. A number of teachers have registered for Ph.D on part-time basis. Many teachers are also permitted to do M.Tech on part-time basis.

**Item 7: Operation of formal networking:**

It was noted that in the earlier report that MOUs with 5 networking institutions were entered into as envisaged in the CIP.

It was suggested that lead and networking institutions should meet together to work out and finalise the modus operandi required for effective networking activity. The college has taken initiative of visiting all the three lead institutions with which it has formal networking. It has also formulated networking arrangements with Institute of Science and Technology. During the period from 8<sup>th</sup> to 18<sup>th</sup> of March 2006, networking arrangements with Rajiv Gandhi Institute of Engineering and Technology, Nandyal will be firmed up.

The visits made to three lead institutions are detailed hereunder:

1)NIT, Warangal	8 <sup>th</sup> December 2005
2)OU college of Engineering, Hyderabad	21 <sup>st</sup> January 2006
3)JNTU college of Engg.Kukatpally,Hyderabad	2 <sup>nd</sup> February 2006

Progress made under the present period is given hereunder.

The college has conducted a number National Conferences within its premises and also conducted another Conference at Institute of Science and Technology, JNTU. The details are given in Annexure II.

As many as 35 faculty and staff were deputed by the college during the period of review to various institutions including networking institutions. The details of the faculty and staff deputed and the institutions to which they were sent along with the period of training are given in Annexure I. The above steps taken are very good.

The action plan of various networking arrangements proposed by this institution for the period 2006-2007 are given in annexure IIIa, IIIb, IIIc & IIId.

**Item 8. Service to Community and unorganized Labour Force:**

A number of skill development programs were conducted the details which are given hereunder:

1. Entrepreneurship Development Cell (EDC) of Sreenidhi Institute of Science and Technology has organized skill development programme on Manufacturing of Candles at NFC Nagar on 29<sup>th</sup> January 2006 under TEQIP where 37 members participated.

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2. Entrepreneurship Development Cell (EDC) of Sreenidhi Institute of Science and Technology has organized skill development programme on Manufacturing of Home Need Chemicals (washing powder, Phenyl, Liquid soap, Room freshner) at Annojiguda village on 12<sup>th</sup> February 2006 under TEQIP where 28 members participated.
3. The following other programs are also proposed to be conducted shortly.

Proposed programs:

Programs are on pipeline on

- 1) Tailoring and fashion technology &
- 2) Automobile Servicing (2 wheeler)

Further the following programmes are planned during and upto March 2006

- 1) Welding - 15 participants
- 2) Plumbing - 15 participants
- 3) Mushroom cultivation - 15 participants
- 4) Vermi-composting - 15 participants
- 5) TV Repairing - 15 participants

These initiatives taken by the Institution are Commendable.

The action plan submitted by the institution in this regard for the year 2006-07 are given in Annexure IV.

The scope may be explored in the following sectors to conduct community development programmes:

- a) Development of skills – Tailoring, embroidery
- b) Sericulture
- c) Dairying
- d) Bio-gas
- e) smokeless choolas
- f) community kitchen
- g) Production of honey
- h) Small scale mechanization
- i) Homeneeds
- j) Market research for agro-products
- k) Consumer product development
- l) Small business development

**Item 9. Implementation of Tribal Development Plan.**

Action taken with regard to the assistance rendered to SC/ST students is given below.

1. A number of books were purchased for the benefit of SC/ST students and are distributed to them. These books are given to them over and above their normal entitlement.
2. Training of SC/ST students in English Language Lab.

3. 1<sup>st</sup> year SC/ST students undergo training for improvement of communication skills in English Language Lab on compulsory basis. SC/ST students of 2<sup>nd</sup> and 3<sup>rd</sup> years are also given opportunity to undergo training in the evenings. This initiative taken by the college is very good.

The action plan submitted by the institution in this regard for the year 2006-07 are given in Annexure V.

## **(B) IMPLEMENTATION OF INSTITUTIONAL REFORMS:**

### **i) Creation of Institutional Ambiance to achieve high institutional standards.**

1. Intense Collaboration with industry is taking place in the department of Mechanical Engineering.
2. A number of sponsored projects are under taken for Singareni Collieries Limited, Vikram Sarabai Space Centre, I.S.R.O and Department of Space. Consultancy work for testing materials for Vimta Labs is also taking place.

This is very good and has to be pursued vigorously.

### **ii) Introduction of flexibility in programme offerings:**

In the existing syllabi prescribed by JNTU to which the college is affiliated, has a number of electives which can be offered based on the skills in demand in the market.

After obtaining academic autonomy, the institution will be in a position to revise the syllabi as often as necessary in consonance with the requirements.

Special lectures are organized utilizing the expertise available in the academic institutions and industry.

### **iii) Introduction of Four funds:**

Principal expressed that these funds are built already. However, he expressed the need for increasing the tuition fee substantially from the present level of Rs.22,000/- for rapid development of the funds position:

### **iv) Offer of incentives to faculty:**

It was suggested in the previous report that best teacher awards and awards for best R&D and Consultancy activity may be instituted. Distinguished achievement/services award also was suggested.

The College has already given best teacher awards. It promised that best R&D and consultancy awards will be instituted shortly. Awards for technical supporting staff are also planned.

**v) Mechanism for self-correction of the reforms:**

It is suggested that each department may have its self-evaluation with SWOT analysis so that necessary self corrections can be ensured. This may be done atleast once in a year.

**C) IMPROVEMENT IN ADMINISTRATIVE AND MANAGERIAL EFFICIENCIES:**

**Modernisation & decentralization of administration and financial management:**

The existing Deanships for administration, academic, examinations, curriculum development, R&D/Consultancy, Industry interaction, students' welfare, Training and Placement are good. In this regard, the Dean (R&D/Consultancy) may be renamed as Dean of Sponsored Research and Industrial Consultancy. The practices adopted with regard to sponsored research and industrial consultancy in IIT system are given to the institution for guidance.

**i) Automation**

There is fairly good automation in administration, accounts and students' affairs. The college also has called for quotations for bio-metric attendance system. Automation in every respect is possible when campus-wide networking is completed which is in the advanced stage of release of orders.

**ii) Increased responsiveness to students' academic and non-academic requirements:**

It is already advised by us to appoint counsellors/advisors to the students to cover for their entire four years of study. College promised to implement this scheme from the next academic year.

**iii) Increased responsiveness to faculty requirements:**

These are already in place in the institution which will be continued with more vigour.

**iv) Increased utilization of institutional resources:**

The present procedure of using the resources in effective manner is good. The computer laboratories are being utilized by the students of more than one department. Similarly, the electrical and electronics laboratories are also utilized by the students of other departments.

**v) Maintenance of academic and non-academic infrastructure and facilities:**

The college is advised to appoint a maintenance electronics 'Handyman' who is a diploma holder in electronics to cover the basic services to the equipments.

The workshop mechanics can also be utilized for mechanical maintenance of equipments.

## **D) QUALITY OF EDUCATION, TRAINING AND SERVICES:**

### **i) Accreditation status:**

The college is submitting the application for renewal of accreditation which expires in May 2006 for the following branches:

- 1)EEE
- 2)Mechanical
- 3)ECE
- 4)CSE and
- 5)IT

For the course of Electronics and computer engineering, the college will be submitting its application for accreditation which has satisfied the requirements for applying for accreditation. All other courses are not yet eligible for submission of application for accreditation.

It is strongly recommended that the institution may submit proposals for establishment of necessary research facilities in all the departments including those which are not accredited. The case of department of bio-technology which has excellent faculty with enormous research experience both in India and abroad deserves to be mentioned specifically here. They have purchased equipments which are required for quality research and have plans to expand further. The cost of the purchases made in this regard should be supported by TEQIP Project. If this is not permitted, 2 to 3 batches of students will pass out the institution without exposure to the latest equipment used in R&D which will be a handicap in their professional advancement.

### **ii) Improved relevance of curriculum and syllabi:**

Though JNTU revises the syllabi once in 3 years, which is also applicable for Sreenidhi, the curriculum and syllabi can be made more relevant if academic autonomy is granted to this institution. The Govt. of A.P. may please help the institution with regard to autonomy by hastening the process with AICTE.

### **iii) Use of modern teaching/learning aid and methods:**

#### **Training to faculty in CBT:**

It was suggested that the faculty be given training in the computer based teaching so that resources available from Andhra Pradesh State Council for Higher Education and other sources can be acquired and utilized in the training programme. It was heartening to note that the College has purchased 20 LCDs which are fitted in the class rooms. 20 more are proposed to be purchased now so that all the class rooms can be fitted with LCDs. In the campus wide networking, it is proposed by the Institution to provide internet connectivity to every class room. With the availability of LCDs and internet connectivity in each class room, necessary improvement in the instruction can be given and more effectiveness can be ensured. The college has also assured that training programme will be given to faculty in CBT shortly.

### **iv) Provision of opportunities to students to improve their learning:**

The internet connectivity has been increased to 1 MBPS besides 256 KBPS connectivity available with SONET for Digital Library. The proposed CD server and campus wide networking with last mile provided by wireless will enable the students to engage in more of self-learning.

**v) Interaction with industry:**

The consultancy is an excellent means to expand the requirements of industry. This is to be promoted aggressively.

Refresher courses for industry personnel be organized on a regular basis by each department. These courses may be organized within the institution or in industries concerned.

An exposure to the industry personnel may be conducted at regular intervals on the type of R&D activity being conducted in the institution which can be utilized by the industry.

Associating the industry in designing of laboratories be made with experiments for ensuring upto date training in laboratory maintenance.

Simulation and modeling type of experiments may also be devised in practical instructions.

Interaction with small and medium scale industries be increased which are playing vital role in the national growth, generation of employment and export earnings.

**vi) Placement through campus interviews:**

In the period of review institution has made series of efforts and approached many non-IT companies situated in Hyderabad and Banglore by deputing Professors to contact corporate heads for promoting campus recruitments. Dean(Training & Placement) is being sent to Chennai for the same purpose.

**vii) Training and services offered:**

The students are being provided internet connectivity and also many opportunities for self development. Training in the areas of career plannings, how to face interviews successfully, etc. are provided abundantly. After campus wide networking is completed, the lecture materials will also be placed in the network. This is praiseworthy which will further promote student centered learning process.

**3. Progress in implementation of other components covered under institutional development.**

All the actions taken by the institute are within the approved CIP.

**(a) NBA Accreditation**

There are seven (7) undergraduate programmes and four (4) postgraduate programmes offered by this institute:

**Undergraduate Courses**

1. Computer Science & Engineering
2. Information Technology
3. Electronics & Communication Engineering
4. Electrical & Electronics Engineering
5. Mechanical Engineering
6. Electronics & Computer Engineering and
7. Bio-Technology

**Postgraduate Courses**

1. M. Tech in Digital Systems & Computer Electronics
2. M. Tech in Electrical Power Engineering
3. M. Tech in CAD/CAM
4. M. Tech in Software Engineering

The first five Undergraduate courses are accredited already and application for renewal of accreditation of these courses are being submitted shortly. The 6<sup>th</sup> Undergraduate course Electronics & Computer Engineering has become eligible for accreditation and application is being submitted to NBA shortly. The 7<sup>th</sup> undergraduate course (Biotechnology) and all Postgraduate courses are not yet eligible for accreditation.

**(b) Revision, Restructuring and Reorientation of existing Courses:**

Revision of the syllabus is taking place once in three years by the University. Institution has initiated the process of getting academic autonomy and necessary revisions can then be done as often as necessary in response to the skills in demand in the market.

College has taken initiative in consulting the industry and academic institutions to arrive at syllabus for all Under Graduate Courses being run by the institute and submitted detailed syllabi of all the courses to JNT University for its consideration.

Training of faculty and staff is regularly done by this institute to meet the changing needs of programs. The institute has conducted more than sixty (60) refresher courses in a period of 6 years, which is a commendable initiative.

**(C) Starting of new programs**

As proposed in C.I.P, institute has started four (4) Post Graduate Courses and additional faculty and staff are also provided. All the laboratory requirements are provided.

**SUGGESTION / RECOMMENDATIONS**

Government of Andhra Pradesh may be requested to consider the following:

- 1) Release of second installment of TEQIP fund.
- 2) To hasten the process of granting academic autonomy to this institute.
- 3) To encourage establishment of research facilities in all departments including in those departments, which are not yet eligible for accreditation.

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**ANNEXURE -I**

**FACULTY & STAFF TRAINING (FORMAL AND INFORMAL NETWORKING)**

The following Teaching and non-teaching staff were sent for training on the dates indicated

1) R.Murali Krishna	NIT Warangal	27-2-06 to 4-3-06
2)K.Shravan Kumar	NIT Warangal	27-2-06 to 4-3-06
3)Ms.Shaik Taj Mehboob	NIT Warangal	27-2-06 to 4-3-06
4)G.Prasad Acharya	NIT Warangal	27-2-06 to 4-3-06
5)Ch.Pamuleti	NIT Warangal	27-2-06 to 4-3-06
6)KVS.V.Trinad Reddy	NIT Warangal	27-2-06 to 4-3-06
7)M. Murali Krishna	JNTU, Kukatpally, Hyd.	11/12/2006
8)B. Srinivas	Academic Staff College, JNTU, Hyd.	11/1/2006
9)S. Ramgopal Rao	Academic Staff College, JNTU, Hyd.	11/1/2006
10)P. Ravi babu	JNTU, Ananthpur	28 & 29-12-2006
11) Jagadish	JNTU, Ananthapur	27-02-2006 to 28-02-2006
12)T. Venkat Rao	JNTU, Ananthapur	27-02-2006 to 28-02-2006
13) S.Venkatachalam	Sri Chamarajendra College of Engg, Mysore	22-02-2006 to 24-02-2006
14) S.P.V. Subba Rao	SJCE, Mysore	22-02-2006 to 24-02-2006
15)T. Venkat Rao	K.L College of Engg., Guntur	1/12/2005
16) M. Venka Ramana &	Bannari Amman Engineering College, Satyamandalam	9/12/2005 - 16-12-2005
17)A. Kumara Swamy	Bannari Amman College of Engineering, Satyamangalam	9/12/2005 - 16-12-2005
18)M. Venka Ramana	Institute of Indian Foundrymen, Chennai	22-12-05
19)T.Ch. Shiva Reddy	Osmanabad Engg. College	15-12-05 to 17-12-05
20)V. Krishna Murthy	RITS College, Chevalla	11-02-2006
21)V. Jagadish	AL Habeeb Engg. College	28 & 29-12-2006
22)Shaik Taj Mahboob	AL Habeeb Engg. College	28 & 29-12-2006
23)K. Srikanth	AL Habeeb Engg. College	28 & 29-12-2006
24)N. Murali Krishna	AL Habeeb Engg. College	18-02-06
25)Kavitha	Advanced Training Institute , Hyderabad	02-1-06 to 13-1-06
26). Satyanarayana	Advanced Training Institute , Hyderabad	02-1-06 to 06-1-06
27)A. Srinivas	Advanced Training Institute , Hyderabad	16-8-05 to 26-8-05
28)E. Venkat	Advanced Training Institute , Hyderabad	02-1-06 to 13-1-06
29)Y. Sunder Rao	Advanced Training Institute , Hyderabad	02-1-06 to 13-1-06
30) Ch. Rajesh Babu	Advanced Training Institute , Hyderabad	03 & 04-02-2006
31)B. Anand Kumar	Advanced Training Institute , Hyderabad	11-02-2006
32)V.Vijaya bhaskar Rao	Advanced Training Institute , Hyderabad	13-02-06 to 17-02-06
33)A. Gopal	Advanced Training Institute , Hyderabad	23-01-06 to 27-01-06
34)A. Subhaskar Rao	Advanced Training Institute , Hyderabad	02-02-06 to 17-02-06
35)G.L. Subba Rao	Advanced Training Institute , Hyderabad	06-2-06 to 07-2-06

## **ANNEXURE – II**

### **CONFERENCES CONDUCTED**

- a) **The following National Conferences were held during the period under review:**

Embedded Systems	November 23-24, 2005
Recent Trends in Power systems(EEE)	30 <sup>th</sup> Nov. to 1 <sup>st</sup> December 2005
Technological Advancements in Mechanical Engg	2 <sup>nd</sup> & 3 <sup>rd</sup> December 2005
Signal Processing & Communication(ECE)	5 <sup>th</sup> & 6 <sup>th</sup> December 2005
New Frontiers in Biotechnology(BT)	7 <sup>th</sup> & 8 <sup>th</sup> December 2005

ADASTRA-06 – National Level Technical Paper meet was held on 17<sup>th</sup> & 18<sup>th</sup> Feb.2006. National level mini project competition etc., were held on this occasion.

- b) **Conferences conducted at other institutions with Networking**

Down stream processing with Institute of Science and Technology, JNTU on 7th & 8th February 2006