

# **Second Progress Report by Mentor Prof.M.A.Ramulu for University College of Engineering, Osmania University, Hyderabad. (from November 2005 to March 2006)**

## **1. Autonomy**

The University has given Autonomy (Academic & Financial) to the College of Engineering, which has been effectively and efficiently used by the College. Under academic autonomy, the College of Engineering has revised UG & PG syllabi with 4-year and 2-year cycles respectively. The funds received from students fees has been judiciously utilized under Non-University Fund (NUF) budget for development activities of various departments uniformly in addition to creating Central Facilities. There is a well-defined procedure for academic decision-making as well as for financial budget allocation and spending. Meetings of Board of Governors (BOG) are being held regularly and the Board's approval is being taken for all important decisions.

However, the College is suffering from lack of teaching staff since many senior teachers have retired and these posts are not being filled up since last 10 years because of the ban on recruitment by the State Government. Against 166 sanctioned faculty positions, only 100 faculty are on rolls. Obviously, this is affecting teaching and research activities and industry-institution interaction, although efforts are being made to appoint Academic Assistants on Contract basis. The temporary staff obviously do not have the same sincerity, depth of knowledge, and dedication as the regular staff.

Because of its potential for excellence, the College has been selected by the Ministry of HRD for funding under IIT Status at National Level. In order to maintain this academic status, it is essential that the State Government and University authorities shall take immediate step to fill up the vacant posts. The BOG should be given enough powers to recruit Visiting Professors and Adjunct Faculty on the recommendation of a duly constituted Selection Committee.

It is recommended strongly that under the Principal, there should be two posts of Vice-Principals one for administration and another for academic, and Prof. Incharge (Sponsored Research & Industry & Industry Consultancy). The University/BOG may approached to get these posts created for lboth the College of Engineering and College of Technology.

## **2. Project Implementation**

The University administration and management has to take proper care to implement most of the activities under TEQIP. The sanctioned grant has been judiciously utilized to create central facilities such as

- E – class rooms
- Learning Resource Centre
- Centralized Computer Centre
- Instrumentation Centre

In addition, every department has been sanctioned its own e-class room with LCD Projector, Plasma TV, Motorized Screen, Interactive White Board etc. for departmental seminars and audio-visual lessons. The Library has been equipped with recent books to cater to revised curricula. The TEQIP Coordinator, Nodal Officer, and Principal have taken all care to follow purchase procedures, Tender Procedures and decision-making process are fully transparent. Faculty and Students are well informed about TEQIP activities and various parameters to be implemented under this project.

However, the newly purchased equipment has to be effectively used for state-of-the-art experiments to be designed in consultation with industry. It is also expected that the research output by Faculty and Research scholar should increase by proper utilization of software and equipments purchased under TEQIP.

The TEQIP Coordinator has issued ‘action plan’ for academic reforms which are under implementation stage. It is expected that an outcome will be visible by end of the academic year. It is also planned to collect statistical data from the present Final Years in order to know the academic growth of various class and category of the students.

### **3. Progress in Implementation of other components**

The College has purchased equipments/software for all the departments as per their proposal and these equipments have been installed and the software are in use. Separate Stock Books/Log Books are being maintained. The College has received equipment for Edusat Programme from Indian Space research Organization. This equipment has been installed centralized e-class room. College has approached IIT Delhi and IIT Mumbai to receive their Video Lessons through Satellite under Distance Education mode. This is yet to be implemented.

The College is planning to go for fresh accreditation from NBA in 2006-2007. The University has NAAC accreditation with five stars.

For revision/restructuring-reorientation of existing programs, the College has submitted the proposal for starting PG programme and research in Nano-Technology. The department of ECE has been approached by Industry (Astra Microwaves Pvt. Ltd., Hyderabad) to establish a Centre of Excellence in Microwave Engineering.

However, there is a need to strengthen the interaction with industry (small, medium scale also) so that students and faculty are exposed to real life practical problems and to make the students more globally competitive. List of equipments/software purchased and installed is given in Appendix I.

The Report of Internal Audit Committee to verify the utilization of Infrastructure/Equipment is given in Appendix II.

Training Programs attended by Faculty / Staff are given in Appendix III.

Workshops conducted by various departments are given in Appendix IV.

Networking collaboration with Network Institutions needs to be strengthened.

There seems to be lack of enthusiasm on this ground. However, the College is part of Network Institutions under project 'NETWORK' to be funded by Swiss Development Cooperation along with other 5 Institutions in South India (IISc., CEDT, PSG College, NIT Suratkal, COE Trivandram, Thyagraja College of Engg., Madurai) Principal, D.N.Reddy and Prof. V.M. Pandharipande attended the meeting at Coimbotore in this regard.

#### **Service Package:**

The UGC Career Advance Scheme exists and is being implemented periodically. Recently, 3 faculty have been promoted to Professors and 2 faculty member to Associate Professors and Selection Grade. It is surprising that faculty does not have medical Reimbursement and LTC.

A Blood Donation Camp was organized by the college in which many students and faculty participated.

Four accounts have been opened under

- a) Corpus Fund
- b) Staff Development Fund
- c) Maintenance Fund
- d) Depreciation Fund

Students fees are being deposited in separate account under "Non University Fund" (NUF).

- It is recommended that Assistant Professors be recruited with Ph.D qualifications only.

- It is recommended that Teachers may be given sabbatical leave to undergo internship in Industry/ R&D establishments.
- Industry Engineers/Scientists with academic bent of mind may be offered a Semester Course of his/her choice at PG level available; they will be given a course completion certificate.
- Technology Development Centre may be named as Technology Development & Transfer Centre/Cell and efforts may be made to develop greater interaction with Industry leading to mutual benefit.
- Faculty must develop innovative ideas which on marketing may result in entrepreneurship. Besides formal Networking, it is recommended that the faculty may go for nonformal interaction with other institutions industries/R&D Labs.
- The NSS activity may be strengthened and students may be given due credit for the participation.
- For stabilized power supply of adequate capacity to meet the requirements of Laboratories and Research, a separate transformer is strongly recommended along with the stabilizer.
- It is recommended that the Principal should request AICTE to grant full-time Research Scholarships for Ph.D programmes, as quality of research produced will not be comparable to as produced by IITs.