

ASSESSMENT STATUS REPORT OF UTD
Year of Report: 2011-12

203

Name of the School: **School of Instrumentation**

Year of Report: 2011-12

Part A: The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year.

School is running one post graduate programs viz.. M. Tech. in Instrumentation. Our M. Tech. (Instrumentation) program is duly recognized and funded by the All India Council of Technical Education, (AICTE) New Delhi. The aim of the school is to produce the world-class high tech professional in the different areas of Instrumentation and allied fields. School is devoted for providing the quality education and guidance for the students, which is evidenced by the fact that most of our students are employed in Different National leading laboratories such as ISRO, RRCAT, Indore, CEERI Pilani and DRDO besides this, they are also working in the leading companies in field of Process Control and Instrumentation viz. Tata-Honeywell, YOKOGAWA, ABS etc. Many students are interested to do Ph.D. after the M. Tech. programme from different International premiere Institutions in the World. In contemporary to previous results the students of this school should also achieve encouraging goals in the year 2010-11.

Part B:

| | | |
|----|---|---|
| 01 | Activities reflecting the goals and objectives of the institution | To impart high quality education in the field of Instrumentation and to make the students expertise with the practical aspects of the subjects along with the recent developments in the various field of Instrumentation. |
| 02 | New academic program initiated (UG and PG) | The school is an integral part of Academic program in Instrumentation as well as University Science Instrumentation Centre (USIC Level-II), sponsored by UGC. Under this centre, we provide maintenance service to the different Research laboratories of the University and its teaching departments (School) and affiliated colleges by way of training programs/ workshops. |
| 03 | Innovations in curricular design and transaction | To fulfill the basic aims and objective of the school, we design the course curriculum in such a manner that students will get maximum benefits. We are providing in-house training in different areas of Instrumentation during the course as well as, the students are also using the facility of USIC for this purpose. As a part of our course curriculum, the students have to prepare one minor project in which they have to design a new set of experiment or they have to improve a set of experiment and then students have to give the seminars on the recent research topic of instrumentation. |
| 04 | Inter-disciplinary programmers started | School has given the freedom to the students to perform their major projects / minor projects in the different laboratory of the University as well as in UGC-DAE CSR Indore Centre and RR Centre for Advanced Technology, Indore. |
| 05 | Examination reforms implemented | We follow the University Ordinance no. 31 and provide complete transparency in the evaluation. Students actively participate in the finalization of semester schedule and all other extra curricular activities like seminars, symposia etc. Up to now, no case of revaluation occurred |

| | | |
|-----|--|---|
| | | in our school. |
| 06 | Candidates qualified NET/SLET/GATE etc. | We are running post-graduate course in Technology. |
| 07. | Initiative towards faculty development programme | Presently School is having Two regular faculty. The recruitment of three more regular faculty is in progress. |
| 08 | Total number of seminars/workshops conducted | |
| 09 | Research projects a) Newly implemented b) Completed | Presently, We have UGC funded research project. In this project, one research scholar is working. We are actively participate in the utilization of Synchrotron Radiation Facility available at RR Centre for Advanced Technology, Indore. Our research scholars as well as PG students are participating in this activity. |
| 10. | Patents generated if any | NIL |
| 11. | New collaborative research program | We have many research close collaborations with (i) Inter-University Accelerator Centre, New Delhi, (ii) UGC-DAE CSR Indore Centre, (iii) Indira Gandhi centre for Atomic Research, Kalpakkam (DAE unit), (iv) R.R. Centre for Advanced Technology, Indore. (v) CEERI, Pilani. |
| 12. | Research grants received from various agencies | During 2011-12, we have received the grant of Rs. 138,000/- from the UGC DAE CSR, Indore. And Rs. 25,000/- + a post of JRF from Inter-University Accelerator Centre, New Delhi. |
| 13 | Details of research scholars | Five research scholar are presently working in the school (1. Mr. Shobhit Singh Chouhan, 2. Mr. Santosh Kumar, 3. Ku. Anga H. Kiranmayee, 4. Mr. Rajendra Sharma, 5. Ms. Sheetal Soni) |
| 14. | Citation index of faculty members and impact factor | Total no. of international publication = 70, impact factor from 1.00 to 3.82. Total no. of citations are more than 400. Few research papers are cited more than 50 times Total Ph.Ds: 04 and 05 students presently enrolled. |
| 15 | Honors/Awards to the faculty | Dr. Ratnesh Gupta nominated as Associate Fellow, Abdus Salam International Centre for Theoretical Physics, Trieste Italy from 2002-2008 |
| 16 | Internal resources generated | |
| 17. | Details of departments getting SAP, FIST, etc assistance/recognition | Due to lack of core faculty members, department is unable to get such assistance from SAP, COSIST (ASSIST)/DST.FIST, etc. As per Govt. of India rules, there should be at least 06 regular/ permanent faculty in the School for such schemes |
| 18. | Community services | |

| | | |
|-----|---|---|
| 19. | Teachers and officers newly recruited | Under process |
| 20. | Teaching-Non-teaching staff ratio | School has Two regular faculty : Three regulat faculty positions are vacant Technical Staff: 05 Mechanic Staff: 05 Peon : 01 (Temporary) The technical and mechanical staff is working for the maintenance and the repair of the instruments to fulfill one of the objectives of USIC. |
| 21. | Improvements in the library services | In our departmental library, we have 1000 books. Students are participating in the library management. We have online download facility to download research articles, review articles etc. from IEEE and different knowledge based websites. |
| 22. | New books/journals subscribed and their Value | We have online UGC inflibnet facility to download different research articles. |
| 23. | Courses in Which Student Assessment of Teachers is introduced and the action taken on student feedback. | From 2009-10,we have started student feedback system and formal analysis Has been done as per NAAC guidelines. |
| 24. | Unit Cost of Education. Unit cost = total annual expenditure budget (Actual) divided by the number of students enrolled. | |
| 25. | Computerization and Administration and the process of Admissions and examination, result issue of certificates. | Yes, School of Instrumentation has more than 25 PCs. We have internet facility since 1998. We are the first in the university who keep all the departmental information on their website. We never got our brochure printed. Ours all information is taken by the students and scientists globally thru our website maintained by ourselves with our own server. |
| 26. | Increase in the infrastructural facilities. | School has developed one Seminar/Conference room. All the faculty have individual PC and internet connection. |
| 27. | Technology up gradation. | |
| 28. | Computer and internet excess and training to teacher and students. | A well-equipped computer laboratory has been setup for the students, research scholar and for technicians. |
| 29. | Financial aid to students. | All GATE qualified candidates received the scholarship of Rs. 8000/ per month along with the contingency. Research scholars are getting scholarship from the projects. |
| 30. | Activities and support from the Alumni | We are in the process to establish alumni association. |

| | | |
|-----|--|---|
| | Association. | |
| 31. | Activities and support from the parent Teacher Association. | |
| 32. | Health Services. | University health centre is available |
| 33. | Performance in support activities. | Above average |
| 34. | Incentives to outstanding sports persons. | We provide all possible help. |
| 35. | Students Achievements and awards. | |
| 36. | Activities of the Guidance and Counseling Units. | Faculty of the school are always assisting the students during the course as well as after the degree also. |
| 37. | Placements services provided to student. | We don't have any placement cell. But our most of the students got the placement during the major project work. |
| 38. | Development programmes for Non- teaching staff. | We provide the training to technical staff of our university. |
| 39. | Healthy practices of the institution. | Transparency and involvement of students in policy making. |
| 40. | Linkages developed with National/ International, Academic/Research bodies. | We have many research collaboration within India as well as abroad. |
| 41. | Any other relevant information the institution wishes to add | School is well known for its quality research and teaching. |

Part C: Detail the plans of the institution for the next year:

Name & Signature of the Coordinator QAC

Name of Signature of the HEAD, UTD