Army Institute of Technology (AIT) Dighi Hills, Pune - 15

Director Tele Fax 27157534 Principal 27157741 Exch 27157612,27157534
Recognised by AICTE and affiliated to University of Pune Id No. PU / PN / Engg / 108 / (1994)

ONWARD TO GLORY

AIT 364

29 April 2009

To,

The Director
NAAC
PO Box No: 1075,
Nagarbhavi,
Bangalore – 560 072
Karnataka.

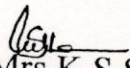<u>Subject.: AQAR For Academic Year 2008-09</u>

Dear Sir,

Army Institute of Technology had been awarded NAAC accreditation on 16 February 2004 for a period of five years and we found that our college benefitted a lot by going through the process of NAAC accreditation. In order to continue with our quality activity and quality enhancement we have applied for re-accreditation to NAAC on 3 Feb 2009 and begun the process for re-accreditation.

Enclosed please find our AQAR for 2008-09.

As per your requirement we have created a separate e mail account for communication with NAAC ; naac_coord@aitpune.edu.in

AIT would appreciate any suggestion/comment/observation from you.

(Mrs K S Surekha)
Off Principal

<u>Copy to:</u>

The Director, BCUD, University of Pune.

Part A

As NAAC substance activity for the year 2008-09 we worked on the areas identified for quality improvement and bench marking in our last report 07-08(Part C). The progress achieved in each area is reported below:

1. Motivate students so as to increase the number of students scoring a first class in university examinations.

Progress: A question bank of important questions was made available to students of first year at the end of the semester to help students prepare for the university examination.

At present the existing scholarships are given to the first three toppers of each year and branch and to students who qualify for merit-cum-means scholarship. In order to motivate more students to score a first class a committee consisting of faculty and students was set up to propose scholarships to all students scoring more than 64% marks. The recommendations of this committee have been put up to the AIT management and are expected to be approved in future.

2. Maintain consistency of 100% students being placed.

Progress: Due to the effects of recession we could not meet our goal of 100% placement to all students scoring more than 55% marks. However, despite recession placements of our students were relatively good this year. Total placements are 87% till date. All students scoring more than 65% have been placed. 97% of students scoring between 60 – 65% have been placed, and 87% students scoring above 55% have been placed.

3. To conduct ISTE sponsored STP programs and workshops in each department.

Progress: Computer Department conducted an AICTE sponsored five day STTP on "Component based software engineering and software architecture' in June 2008.

Mechanical Department held a workshop on 'Implementation and detailing of Pune University syllabus for –Theory of Machines and Mechanisms I –SE (Mech) in February 2009.

Electronics and Telecommunications Department conducted a IETE

sponsored workshop under IETE student chapter on "Mixed signal FPGA and recent trends in VLSI" and "Digital design and its application in robotics".

4. To encourage staff members to publish and present more papers and attend more seminars.

Progress: Total seminars/workshops attended by faculty in 2008-09 was more than fifty. Two books were published by faculty and about ten papers were presented by faculty members in various national level conferences.

5. To introduce new elective subjects for final year students.

Progress: Two new elective subjects were offered to final year students of E&TC branch in the beginning semester I and semester II.

6. Renovation of some more laboratories.

Progress: In the DSP laboratory 25 PC's of Core 2Duo were purchased. Two computers were purchased in Civil laboratory. Some of the Staff rooms have been renovated and a new Staff room has been created to accommodate faculty members.

In addition we have maintained working towards our earlier laid down targets like:

7. Lab/Workshop equipment: devices / systems and instruments etc. to be kept in working condition throughout the session.

Progress: We were able to keep more than 95% of above in working condition. All equipment/devices/systems were physically verified and checked before the start of each session. In case of some malfunction during a practical due to a sufficient number of kits/sets students could continue with the practical on another setup. Thus we ensured that all the experiments were conducted smoothly without any problems.

The first year engineering syllabus was revised w.e.f. 2008-09. All purchase of new equipment required as per the revised syllabus was done on schedule.

9. Term Work Assessment: To continue the practice of progressive assessment for Lab/TW/Practicals etc.

Progress: All labs followed the practice of continuous assessment of term work.

Part B

1.   Sanction for increasing the intake of E&TC /Computer Engg. branch from 60 to 120 has been obtained from AIT Management. It is planned to start a new division in E&TC/ Comp. Engg. from 2010-11. This is subject to approval from Pune University and AICTE New Delhi.

2.   The Pune University first year engineering syllabus was revised with effect from 2008-09. Our college acquired the books, equipment, software etc. required as per the revised syllabus in time and all laboratories conducted the practicals as per schedule according to the revised syllabus. Faculty members participated in the syllabus revision and implementation workshops conducted by Pune University. The second year engineering syllabus revision is under process. The Mecahnical department conducted a workshop on 'Implementation and detailing of Pune University syllabus for –Theory of Machines and Mechanisms I –SE (Mech) in February 2009.

3. Candidates qualified for GATE/ GRE/ CAT: Nine students qualified for GATE, thirteen qualified for CAT, one student cleared GRE and one student was selected for "Microsoft scholarship" in 2008-09.

4. Initiative towards faculty development programme : Staff without P.G. qualifications but with minimum 1 years service with AIT were encouraged to register for P.G.
Two faculty members from Mech. Engg., completed their M.E. One faculty member from Mech. Engg. completed his PhD.
One faculty member from E&TC has completed M.E and two are pursuing M.E. One faculty is pursuing PhD.
Five faculty members from Comp. Engg., are pursuing M.E..
Six faculty members from I.T. Engg., are pursuing M.E.
One non-teaching staff member is pursuing her M.Sc. in Chemistry.

5.   Comp. department conducted an AICTE sponsored five day STTP on "Component based software engineering and software architecture' in June 2008.
        Mech. Department held a workshop on 'Implementation and detailing of Pune University syllabus for –Thoery of Machines and Machanisms I –SE (Mech) in February 2009.
        In addition E&TC Department arranged four lectures by external speakers, Mech. Department arranged one lecture by an external speaker, Comp. Department arranged two lectures by external speakers, IT Department arranged one lecture by an external speaker and three guest

lectures were arranged for first year students in 2008-09. Entrepreneurship development cell arranged one guest lecture on entrepreneurship development during '08-09.

6. One faculty member of Applied Science and General Engineering Department received a grant of Rs. 4.00 Lacs from Department of Science & Industrial Research (DSIR) for his project titled "Development of Aqueous Metal Oxide based Super capacitors"

7. Research projects newly implemented: In Electrical laboratory of Applied Science and General Engineering Department, a research project on "Development of Aqueous Metal Oxide based Super capacitors" has started in 2008-09.

8. NSS conducted two Blood Donation Camps this year. Campus cleanliness drive was conducted in each semester. NSS members also visited an orphanage where they interacted with the children and donated money collected in the college for this purpose.

9. Total number of faculty recruited in 2008-09 is nineteen (twelve were selected through University panel and seven through walk-in interview).

10. Teaching: Non-teaching staff ratio at present is 1: 1.65

11. This year we added 1,063 books during 08-09. Process for purchase of another seven hundred books is expected to be completed by May'09. Subscription to the IEEE and ASME online journals was continued and both staff and students are benefiting from this.

12. Student Feedback was obtained and discussed with all teaching faculty.

13. Admission process: All admissions were based purely on merit. AIT website was used effectively to give information regarding the complete admission process like providing e copy of prospectus, downloadable admission form, displaying the list of first 500 candidates in AIT merit list, joining instructions, daily update on availability of branch during the admission days etc.
Computerization of Administration: Leave record of staff was computerized and made available on-line.

14. Increase in infrastructural facilities:

The first year classrooms and one second year class room were lacking OHP facility. Four computers were purchased and five LCD projectors were purchased and installed in these classrooms. With this all our classrooms now have computers and OHP facility. Two computers were purchased in Civil laboratory.

Ladies washrooms (staff and students') were renovated in the academic block.

In the hostels new fabricated steel chairs were procured for dining areas of girls and boys mess. As part of renovation of hostel bathrooms ten new mirrors were fitted and thirty doors were replaced. Annual whitewashing and distempering of students rooms was also carried out.

15. Technology upgradation : MatLab software and CADian Mech 2008 software was purchased by Mechanical department. MatLab software was also purchased by E &Tc department.

16. Computer and internet access and training: Most staff rooms have been provided with internet connection and in addition one computer with internet connection in each laboratory has been reserved for faculty. Many students having their own PC's have been provided with internet access in Hostels through Reliance Internet facility.

17. Financial aid to students: Horizon scholarships (total amount Rs1,50,000/-) were awarded to 17 deserving students . Indian Express and Times of India scholarships were awarded to 24 students who were toppers from each year and branch. Total amount given under Indian Express and Times of India scholarships being Rs 4,20,000. AIT merit cum means scholarships were awarded to the wards of 54 OR's (Rs 4,000 per student) & 91 JCO's (Rs 2,000 per student).

18. Activities and support from the Alumini association : An Alumni meet was held on 27th Sept. 2008 and 48 alumni attended the meet. Alummi have been actively supporting their alma mater. Three alumni gave lectures to first year students on topics "career guidance", " opportunities in electronics and telecommunication industry" and "recession and its effects".

19. Health services: The students being wards of defense personnel are eligible for Military Hospital (MH) facilities. An ambulance is available to take students to MH. In addition a dedicated Nursing assistant (NA) is present on campus to take care of minor ailments.

20. To plan and implement extra and co-curricular activities (Technical,

Sports, NSS, Cultural, Magazine, Spiritual) a committee headed by one faculty member along with two or three staff members and two or three student representatives was formed for planning and implementing activities of the Technical, Sports, NSS, Cultural, Magazine, Spiritual clubs.

Technical activities: Our Annual inter-collegiate Technical Festival "Solutions-'09" was conducted on 26th March'09. Students from various colleges in and around Pune participated in the Technical festival. Various competitions like Code Red (C Programming contest by Computer and Information Technology Department), Srijna (Model making competition by all the departments) Robo-Soccer (Robotics soccer competitions by Mechanical Engineering Department), Robo-Claws (Robotics Pick and Place competition by Mechanical Engineering) and Wired (Analog and digital Circuit Design competition by Electronics and Telecommunication department) were successfully conducted. In addition a large number of our students participated in intercollegiate technical events conducted by various colleges in Pune, IIT Powai, IIT Kanpur, IIT Kharagpur etc. and won a number of prizes.

Sports activities: Inter-departmental sports were conducted during "Akriti - 08". Our students also participated in many inter-collegiate events in Pune like "Zest" "Silhouttes" "Fire ball" etc. The college team did well reaching quarterfinals in most events and winning the basketball (boys) event in "Zest" – conducted by Govt. College of Engineering, Pune and in cricket (boys) in "Silhouttes" conducted by Armed Forces Medical College, Pune.

Cultural activities: Inter-departmental cultural competition "Akriti -08" was conducted in Sept. 08. Our students also participated in many intercollegiate cultural festivals organized by other colleges and in "Youthopia" an intercollegiate cultural festival organised by "Sakal Newspaper Group" and won prizes in many events.

21. There is no guidance and counseling unit at AIT instead every class has a faculty member appointed as Class counselor. A record of counseling activities carried out by the Class counselors are kept in a register in each department.

22. Since most parents do not reside in Pune we do not have Parent-Teacher association meetings. However parents do come and meet the teachers whenever they are in Pune and a record of such meetings and telephonic conversations are kept in a parent-faculty interaction register in each department.

23.   The activity of staff attending various seminar / workshops / conferences courses etc. was continued in this year also. (The details of these are recorded in each departmental file).
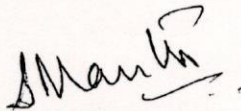
24.   ISO 9001:2000 re-accreditation was obtained in Sept 2008 for a period of three years.

25.   Industrial visits in 2008-09:
       Mech Dept. arranged four industrial visits;
       E&TC Dept. arranged two industrial visits;
       Comp. Dept. arranged one industrial visit; and
       IT Dept. arranged one industrial visit.

Part C

1. To aim at placement of maximum students
2. To achieve results better than University results at all years.
3. To conduct short term training programs STTPs
4. To upgrade all second year engineering laboratories in preparation of revision of second year syllabus.

(Dr. S. Marathe)
Co-ordinator, IQAC

(Prof. K. S. Surekha)
Offg. Principal