राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission

Quality Profile

Name of the Institution : Army Institute of Technology (AIT)

Place : Dighi Hills, Pune, Maharashtra

Criteria	Weightage (W_i)	Criterion-Wise Grade Point Averages ($Cr_i GPA$)	$W_i \times Cr_i GPA$
I. Curricular Aspects	050	3.20	160
II. Teaching-Learning and Evaluation	450	2.78	1251
III. Research, Consultancy and Extension	100	1.95	195
IV. Infrastructure and Learning Resources	100	3.30	330
V. Student Support and Progression	100	3.60	360
VI. Governance and Leadership	150	2.43	365
VII. Innovative Practices	050	3.00	150
Total	$\sum_{i=1}^{7} w_i = 1000$		$\sum_{i=1}^{7} (W_i \times Cr_i GPA) = 2811$

$$\text{Institutional Score} = \frac{\sum_{i=1}^{7}(W_i \times Cr_i GPA)}{\sum_{i=1}^{7} W_i} = \frac{2811}{1000} = \boxed{2.81}$$

Grade = $\boxed{B}$ Descriptor = $\boxed{GOOD}$

Date : September 04, 2010   *Director*

- This certification is valid for a period of *Five* years with effect from September 04th, 2010
- An institutional CGPA on four point scale in the range of 3.01 - 4.00 denotes A grade (Very Good), 2.01 - 3.00 denotes B grade (Good), 1.51 - 2.00 denotes C grade (Satisfactory)
- Scores rounded off to the nearest integer

EC/53/RAR/71

राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद

विश्वविद्यालय अनुदान आयोग का स्वयत्त संस्थान

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission

Certificate of Accreditation

The Executive Committee of the

National Assessment and Accreditation Council

on the recommendation of the duly appointed

Peer Team is pleased to declare the

Army Institute of Technology (AIT)

Dighi Hills, Pune, affiliated to University of Pune, Maharashtra as

Accredited

with CGPA of 2.81 on four point scale

at B grade

valid up to September 03, 2015

Date : September 04, 2010

Director

PEER TEAM REPORT ON INSTITUTIONAL RE-ACCREDITATION OF ARMY INSTITUTE OF TECHNOLOGY, PUNE – 411 015

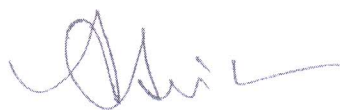| Section I: GENERAL INFORMATION	
1.1 Name & Address of the Institution:	ARMY INSTITUTE OF TECHNOLOGY, Pune Alandi Road, Dighi Hills, Haveli Pune
1.2 Year of Establishment:	1994
1.3 Current Academic Activities at the Institution (Numbers):	UG Programme • Electronics & Telecommunication • Computer Engineering • Mechanical Engineering • Information Technology
• Faculties/ Schools:	-
• Departments/ Centres:	05
• Programmes/ Courses offered:	04
• Permanent Faculty Members:	57
• Permanent Support Staff:	96
• Students:	999
1.4 Three major features in the institutional Context (As perceived by the Peer Team):	• Green Campus, adequate infrastructure with committed faculty and staff, and conducive learning environment. • Student population from every part of the country. • Committed management with good vision.
1.5 Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	10/8/2010-12/8/2010
1.6 Composition of the Peer Team which undertook the on- site visit:	
Chairman	Prof. A Sridharan, Former Deputy Director & Advisor, IISc, Bangalore.
Member	Prof. VK Mahna, Former Professor & Dean, Delhi College of Engineering.
Member	Prof. RB Ram, Dean, School for Bio Sciences & Bio Technology, BV Ambedkar, University, Lucknow.
NAAC Officer	Dr Sujata P. Shanbhag, NAAC Bangalore.

Section II: CRITERION WISE ANALYSIS	
2.1 Curricular Aspects:	
2.1.1 Curricular Design & Development:	• Curricular design and development is as per affiliating University, Pune. • Selected electives are offered from the listed electives of University. • The programme is as per the vision and mission of the Institution.
2.1.2 Academic Flexibility:	• Limited flexibility within the programme by way of electives. • The college has MoUs with some industries including defence R&D establishments to improve the quality of final year projects and placement scenario.
2.1.3 Feedback on Curriculum	• Feedback on curriculum is collected from stakeholders such as students, faculty, alumni and employers and conveyed to Board of Studies of the University.
2.1.4. Curriculum Update	• University updates the curriculum periodically. • Recent updation was carried out 2 years ago.
2.1.5 Best Practices in Curricular Aspects (If any):	• Imparting soft skills training. • Personality development inputs.

2.2 Teaching-Learning & Evaluation:	
2.2.1 Admission Process and Student Profile	• Admission of students is restricted to wards of Army personnel. • Admission is purely based on AIEEE rank with no reservation. • Students are represented from all over the country.
2.2.2 Catering to the Diverse Needs:	• Caters to the needs of wards of Army personnel • Fully residential facility for both students and staff.

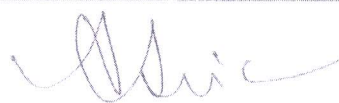|	
2.2.3 Teaching-Learning Process:	• Lesson plans alongwith detailed lecture notes, question banks on intranet. • Two teachers in each practical class and high teacher-student contact. • Efforts for exposure to recent developments in the respective subjects needs more attention. • Fully developed and well-stocked Dept libraries are needed. • ICT in teaching-learning process could be more effective. • Higher number of expert lectures need to be arranged.
2.2.4 Teacher Quality:	• Only one PhD and also less number of MTech/ME qualified teachers in the four Engineering Departments. • A much higher number of Professors and Asst Professors are required. • Teachers need to be further encouraged to enhance their quality and qualification.
2.2.5 Evaluation Process and Reforms:	• The college follows the examination system prescribed by the University of Pune. • A higher number of quizzes, seminars for the students should be held. • Interactive sessions designed in lesson plan.
2.2.6 Best Practices in Teaching-Learning and Evaluation (If any):	- Two teachers engaged for practical classes.
2.3 Research, Consultancy & Extension:	
2.3.1 Promotion of Research:	• A huge effort towards promotion of research needs to be put in. (There is no PG/Doctoral programme). • The budget allocation for research is very low. • More sponsored research projects need to be undertaken.

2.3.2 Research and Publications Output:	• The number of research publication by the faculty is very low. • More incentive for attending conferences and for publications in journals needs to be provided.
2.3.3 Consultancy:	• No consultancy is being undertaken.
2.3.4 Extension Activities:	• More effort needs to be put in.
2.3.5 Collaborations:	• Few MoUs have been signed with industry for professional enhancement.
2.3.6 Best Practices in Research, Consultancy & Extension (If any):	--
2.4 Infrastructure and Learning Resources:	
2.4.1 Physical Facilities for Learning:	• The college has a very spacious and well appointed campus spread over 30 acres. • Very well designed class rooms with LCDs and furniture. • Very well designed Amphitheatre and Conference Rooms are provided. • Excellent sports facilities. • Laboratories need to be reinforced by more equipments and experimental setups.
2.4.2 Maintenance of Infrastructure:	• Maintenance of infrastructure could be better.
2.4.3 Library as a Learning Resources	• Good library administration supplemented by computerization. • Higher budget allocation for library is required. • More books and magazines need to be purchased. • Good e-library (alongwith e-journals) facilities are available.

2.4.4 ICT as Learning Resources:	• Good use of ICT is being made in the classrooms. • Intranet facility for transmission of lectures, lesson plans is in place. • Very good access to intranet available for faculty and students. • A good number of software to enhance the technical skills of students.
2.4.5 Other Facilities:	• Excellent hostel and messing facilities. • Highly organized hostel system. • Sufficient Power backup. • Very good medical support, shopping complex, banking facility.
2.4.6 Best Practices in the development of Infrastructure and Learning resources (If any):	• Very good internet access and indoor sports facilities in the hostels. • Good mechanism to attend to students infrastructure requirement is in place. • Consistently very good results in the University Examination with very low dropout rate.
2.5 Student Support and Progression:	
2.5.1 Student Progression:	• A pattern of marked personality enhancement of students has been witnessed. • A high degree of professional development for students during their tenure of four years is manifest.
2.5.2 Student Support:	• A good mechanism for students supports in respect of infrastructure, sports, cultural activities is in place. • Students support system is very well organized and sustained.
2.5.3 Student Activities:	• An admirable system for fostering talents and special aptitudes of students. • Very good record of college teams in sports and cultural activities.

2.5.4 Best Practices in Student Support and Progression (If any):	• Good placement record and Alumni have progressed to positions of eminence. • Very good feedback from Employers for students of the college. • Satisfaction, quotient of students is very high. • The college has highly disciplined student population with promising professional attributes. • Highly motivated and inspired students.
2.6 Governance and Leadership:	
2.6.1 Institutional Vision and Leadership:	• Senior faculty at higher level is direly needed to mentor junior level faculty. • The college should endeavour to embark upon more programmes including PG.
2.6.2 Organizational Arrangements:	• Director and Joint Director from the Army are at the helm of administrative affairs while Principal is the In-charge of academic matters.
2.6.3 Strategy Development and Deployment:	• The college must evolve a strategy to promote research, higher academic levels by acquiring more grants, sponsorships and collaborations.
2.6.4 Human Resource Management:	• The career progressions of the faculty and supporting staff need more attention by the management. • High performers are identified and are given incentive. • Residential accommodation for faculty and staff is readily available.
2.6.5 Financial Management and Resource Mobilization:	• The college gets grant–in–aid from AWES. • The fees charged from the students are very reasonable for the facilities provided to them.
2.6.6 Best Practices in Governance and Leadership (If any):	• The student discipline and work culture is of the highest order. • The organization, administrative processes and procedure are highly structured.

2.7 Innovative Practices:	
2.7.1 Internal Quality Assurance System:	• IQAC comprising faculty from every department is in place.
2.7.2 Inclusive Practices:	• A good number of females both in faculty and students.
2.7.3 Stakeholder Relationships:	• Since the parents of all students are with the Army background, a congenial relationship exists between students and teachers and parents and management.

Section III: OVERALL ANALYSIS	
3.1 Institutional Strengths:	• The institution attracts very good students with high AIEEE Rank from all over India. • The Institute has well maintained infrastructure with good academic ambience. • The Institute is fully residential for both faculty and students. • Easy access to internet for faculty and students in the academic area and hostels as well. • Students are highly disciplined. • They are aware of professional, societal values and ethics. • Good feedback mechanism from the students for faculty exists.
3.2 Institutional Weaknesses:	• Lack of sufficient PhD qualified middle and senior level faculty members. • Serious shortage of PhD qualified Professors heading the Department. • Insufficient budget provision for research and library. • Lack of consultancy activities. • Lack of sufficient upgradation programme for Teaching and Non-Teaching staff.

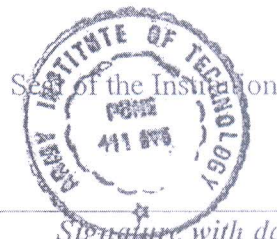|	
3.3 Institutional Opportunities:	• Collaboration with defence, industries and other research organizations in Pune. • Internship arrangement for students in industries. • Creating entrepreneurship opportunities for students. • Leveraging ICT into Teaching-Learning process more effectively.
3.4 Institutional Challenges:	• Initiating PG programme in all departments. • Interfacing Industry-Institute interaction within the existing academic framework. • Creating a research and consultancy culture. • Attracting sponsored research projects from different agencies. • Deputing faculties for higher qualification with financial support.

Section IV: Recommendations for Quality Enhancement of the Institution

- *Higher number of PhD qualified senior and middle level of faculty members are needed to be inducted in all departments.*
- *Initiating research and consultancy culture in all departments.*
- *More research papers, both in National and International journals, need to be published.*
- *More value-addition programmes for the students need to be offered.*
- *Both central and departmental Library budgets need to be increased.*
- *Students should be encouraged to work for local community upliftment.*
- *Career management of both Teaching and Non-Teaching staff needs to be attended.*
- *Adhoc appointments need to be regularised wherever it is admissible.*

I agree with the Observations of the Peer Team as mentioned in this report.

Principal

Signature of the Head of the Institution
Dighi Hills, Pune-411015.

Seal of the Institution

Signatures of the Peer Team Members:

Name and Designation		Signature with date
Prof. A Sridharan, Former Deputy Director & Advisor, IISc, Bangalore.	Chairman	
Prof. VK Mahna, Former Professor & Dean, Delhi College of Engineering.	Member	
Prof. RB Ram, Dean, School for Bio Sciences & Bio Technology, BV Ambedkar, University, Lucknow.	Member	

Place: Pune

Date: 12 Aug 2010