Action Taken Report of Students Feedback on Curriculum

AY 2022-23

Army Institute Of Technology (AIT), Dighi Camp, Pune - 15.

Director : 7249250115, Joint Director : 7249250117, Principal : 7249250186
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Summary of Action Taken

Teachers' participation in Faculty Development Programs (FDPs) has significantly contributed to improvements across various parameters based on student feedback. Following are some of the FDPs that were conducted in the year 2022-23, that may have had a positive impact on the faculty feedback:

1) Inculcating Universal Human Values:

This program enhanced teachers' understanding of fostering ethics, works, positive attitudes and behaviors, positively influencing parameters such as attitude towards students, maintaining class discipline, and overall interest in the subject.

2) Outcome-based Education through Student-Centric Teaching-Learning Process:

The focus on outcome-based education and student-centric teaching processes led to adjustments in methodologies aligned with student needs. This positively influenced rating in teaching methodology, ability to explain subject matter, and overall interest in the subject.

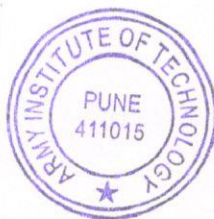### 3) Inspiring India in Research, Innovation, and STEM Education:

Collaborating with CSIR National Chemical Lab on IP and Knowledge Management exposed teacher's concepts of intellectual property and innovation learning to practical applications encourages students to take up R&D or Innovation Project as well as improving parameters like presentation, quality of assignments, and syllabus coverage.

4) Workshop on Digital Creativity Skills

This workshop was aimed to equip faculty with the necessary skills and knowledge to better integrate digital tools into their teaching practices and provide them with practical strategies, tools and templates to engage creativity and inspire the students

5) Effective teaching.

It was intended to familiarize the teachers to be well equipped not only with subject knowledge but also be well acquainted with effective teaching techniques, pedology and evaluation methods.

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To enhance the subject matter knowledge and pedagogical skills faculties are also encouraged for attending the FDPs on core subjects. The list of FDPs attended by faculty in AY 2022-23 is given below:
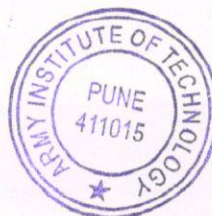
1. VLSI Design & Nano electronics: Emerging Challenges & Opportunities
2. Performance Analysis of Wireless Communication System
3. Advances in 5G and Next Generation Networks (5GNGN)
4. Basic of Electrical Vehicle and its Design Process
5. Modelling & Simulation of Renewable Energy Systems
6. Training on AWS IOT Core Using Industry Grade Microcontroller
7. Internship on "Embedded Systems-ARM & Arduino
8. Workshop on Data Analytics for all faculty
9. Recent Trends in Computation
10. Emerging Research Trends in Computing Technologies
11. Augmented & Virtual Reality with Data Science
12. Deep Learning" in association with CSI & IEEE

Activities conducted for better results and holistic development:

a. **Better results**

- Class tests and assignments are regularly taken for each subject.
- Reducing Student Absenteeism by Tracking and Evaluating Attendance Data
- Remedial classes for weak students are conducted regularly.
- Complimenting students for their performance makes them feel as if they are valued as individuals and can provide a spark that encourages them to try harder and perform beyond expectations. Institute makes a concerted effort to find the strengths in students and compliment them on their performance by giving them following awards:
  - ○ Best All Round outgoing student
  - ○ First in Merit of final year Girl Students in Academic
  - ○ Award for Academic excellence (Passed out students)
  - ○ Scholarships for Academic excellence
  - ○ Scholarships for Needy children of Retired OR
  - ○ Best sports person
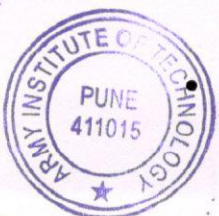
- o Best attendance
- o Best Innovation Project

b. **Holistic development**

- o Education can be fully effective if it helps students to become a productive and contributing member to the society. To achieve this the institute has fosters following process regularly:

- o Counseling process: Every teacher has a batch of 15-20 students under him/her. The teachers interact with his/her counseling batch on weekly basis and ensure a one to one interaction 4 – 5 times in a semester. Teacher counsels each student and monitors his/ her progress. If in some cases a need of professional counseling is felt, then the student is counseled by a professional counselor.

- o Student mentor system: Four or five first year students are placed under mentorship of a second year student. This student provides the first year student guidance and advice after college hours. The second year student is carefully selected based on recommendation of his/her counselor regarding suitability as a mentor.

- o Sports Activities and Clubs: College has various clubs targeting in areas of co-curricular, outdoor and cultural fields which are responsible for conducting different intra-college & intercollegiate activities. Each club has faculty in-charges and student secretaries to guide the students. These vibrant clubs are aimed at peer learning, competitive spirits, soft skills, life skill, leadership, industry connect/connect with investors/ Startups and all round development.

- o For improving the educational experience students, teachers, parents, and alumni are made to openly share and express ideas by holding meetings and communication forums.

  - Directors address
  - Parents meet
  - Alumni meet

Activities conducted for raising social consciousness:

- Social awareness helps students build a more nuanced and accurate understanding of the world around them.

- The NSS club of our institute aims at developing amongst students a sense of participation in nation building through Social Work. This deepens understanding of the social environment
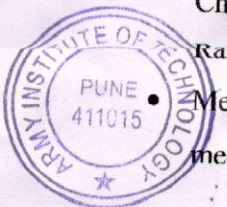
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and enriches his/her personality through actual participation in day-to-day life of the society. This process of learning is not only a desirable supplement to the classroom education but develops in the student a sense of responsibility, tolerance and cooperation. The NSS plays a vital role in the development of the latent aspects of the student's personality.

- The NSS indulges in a wide range of activities, which includes the regular activities and the special camping programme.
  - Raksha Bandhan celebration with visually impaired and orphan students.
  - Cleanliness drive within AIT campus
  - Independence Day celebration
  - Blood donation camp
  - Candle march 6 International women's day celebration
  - Para Athletics championship
  - Visit to para rehabilitation centre
  - Singhad fort cleaning drive
  - Food donation drive during the AlandiYatra
  - Cleaning drive

- Amethyst is vibrant tapestry of creativity and diversity, where the campus comes alive with kaleidoscope of creative expressions. This provide platform for students to showcase their talent. Foster a sense of unity and comraderies with other institutes and student community.

- Students visited Kanha Shanti Vanam, Hyderabad to attend the International Youth Conference with the theme "Rising with Kindness". The activities of the conference included Yoga, Meditation, tree plantation, interactions and addresses with dignitaries like Shri K. T. Rama Rao, UNESCO MGIEP Dr. Anantha, Mr. Ved Abhyas, working with Ministry of Culture, GOI , Dr. Pooja Sahani, Environmental and neuroscientist, S. Joshina Chinappa, India's star squash player amongst others. Our students also got an opportunity to connect with students of various backgrounds from all over India.

- Festivals of all religions are conducted with maximum student participation. These inculde Krishna Janmasthmi, Ganesh Festival Celebrations, Diwali Celebration, Gurunanak Jayanti, Christmas Celebrations, Lohri Celebration, Pranpratisthan Samaroh, Shivratri, Holi, Ramnavmi, Hanuman Jayanti, Eid.

- Meditation and Chanting: Students have been coming together on some Tuesdays for prayer meetings. This involved meditation and chanting, and sometimes singing bhajans. The

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students felt more confident and at peace after the event. As students put it, finding their voice amongst all the other voices brought them joy, calmed them and most importantly helped them focus.

- FE Induction program conducted for all first year students includes modules on Universal Human values, Environmental science.

Activities conducted for promoting eco-consciousness and sustainability:

- Modules on Environmental science and sustainability are included in the Induction program for all first year students
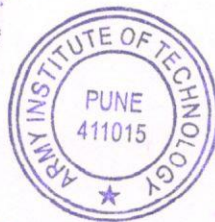
Overall Impact:

These programs collectively equipped teachers with technical skills and a holistic approach to education. Instilling universal human values, promoting student-centric teaching, and encouraging research and innovation have positively impacted the learning environment. The improved ratings in student feedback reflect a direct link between professional development and enhanced teaching effectiveness.

Dr Sushma Patil
Preceding Officer

Dr. B P Patil
Principal

Brig Abhay A Bhat
Director

Action Taken Report of Teachers Feedback on Curriculum

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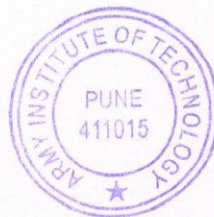Exch : 7249250183, 7249250184, 7249250185
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Action Taken Report:

Looking into the feedback/observations from the stake holders, the following steps to minimize the shortcomings of the curriculum were taken. It has taken necessary actions in on suggestions and complaints. The responses from teachers have been analyzed and then the action taken report is prepared based on suggestions given by the teachers.

Sr. No.	Suggestion if any	Action Taken
1.	Good teaching and learning processes set	-
2.	There are lot of limitations in affiliated system. Autonomy will improve most of the issues addressed in feedback.	The institute has initiated the Autonomy process. It has obtained the approval for ten years from UGC on 10th July 2024.
3.	Modern class room and labs are required.	Class rooms have been taken up for renovation. Renovation of the existing labs and also new construction of labs is under way.
4.	Toilets/washrooms, are available in the department but it need to be wash and make it hygienic on daily basis.	Toilets/washrooms are under renovation. Cleaning of the washrooms are done on regular basis. A complain register is maintained for resolving the issues on immediate basis.
5.	Everything is perfect here, just we need some instruments so that we can increase the publications.	Software tools have been procured. Industry sponsored labs are made available for carrying out the research work. New R&D SOP has been proposed to encourage and motivate the students and faculty. New IPR policy has been issued to encourage faculty to go for patents and copyrights.

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1. The institute is affiliated to Savitribai Phule Pune University. During the revision of Curriculum by SPPU after every five years, AIT encourages faculty members to actively take part in the Curriculum design. Inputs are also taken from the industry personal to understand the industrial needs.

2. AIT organizes Faculty Development and Faculty Orientation Programs for the faculty of all programs and also permit them to attend the Faculty Development and Faculty Orientation Programs organized by other institutes.

3. Teachers are encouraged to undergo industrial training programs to understand and include up-to-date information in the **teaching** curriculums.

4. To follow the NEP Guidelines students are encouraged for registering and completing certificate courses including MOOC value added courses, skill development courses in the programmes. Students also undergo all round development through various club activities monitored by faculty incharges.

5. For bridging the gap between industry and academics, students are motivated to undergo industrial training programs and visits to industries are scheduled.

6. The Training and Placement cell of the institute organizes many sessions for students regarding Career Guidance and Training and Development.

Sample photos of Labs and Classrooms after Renovation

CSL LAB – I , II & IV IN COMPUTER DEPT

ADVANCE COMMUNICATION LAB IN E&TC DEPT

LH 14 ASGE CLASSROOM RENOVATION

Sample Photos of TOILETS After RENOVATION (ACADEMIC BLOCK AND HOSTELS)

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Preceding Officer

Dr. B P Patil
Principal

Brig Abhay A Bhat
Director

Action Taken and Analysis Report on Employers Feedback

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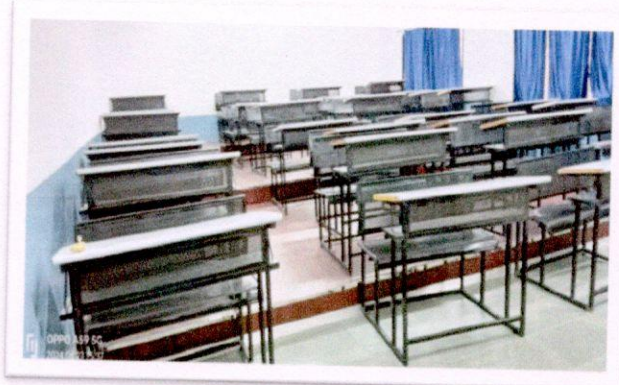Exch : 7249250183, 7249250184, 7249250185
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ANALYSIS OF INDUSTRY FEEDBACK: BE 2022-23

Sr No	Details	Analysis	Action taken
1	Average Overall Performance (Out of 5)	4	
2	Present Dominant Competencies & Skills	Strong coding capabilities, communication skills, flexibility, collaborative mind set, good knowledge of database, professionalism	
3	Means of Interaction	Expert lectures, final year project, industrial training, industrial visit	
4	Curriculum Gaps Observed	Six months internship, exposure to functional programming, Paradigm, knowledge of HDLC, Computer Networking and Operating Systems, application mind set, practical exposure in manufacturing, basics of OOPs concepts, knowledge of web application	1) Students are promoted to go for 6 months internships. Students need to be present only for exam period. 2) The online material is provided to the students for exam preparation. 3) The various guest lectures are organized
5	Suggestions for Depts and Students	More focus on real world problems, application and projects, study of some topics related to commercial aspects of technology, need to focus beyond common online platforms like Leet code and Code chef, goal oriented study, more focus on core engineering, more depth in database skills, more weightage to be given on full stack development.	1) More emphasis given on project based learning and seminar. 2) Competition on projects was organized for all students at various levels. 3) A new international ACM chapter is introduced in AIT. 4) The various FDP were organized for faculty to enhance new technologies.
6.	Important Program	Engineering Knowledge (PO	

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	Outcomes	1) – 60%	
		Problem Analysis (PO 2) – 70%	
		Design/ Development of Solutions (PO 3) – 60%	
		Conduct Investigations of Complex Problems (PO 4) – 50%	
		Modern Tool Usage (PO 5) – 40%	
		The Engineer and Society (PO 6) – 30%	
		Environment and Sustainability (PO 7) – 50%	
		Ethics (PO 8) – 70%	
		Individual and Team Work (PO 9) – 70%	
		Oral & Written Communication (PO 10) – 60%	
		Project Management and Finance (PO 11) – 20%	
		Life Long Learning (PO 12) – 30%	

Analysis Report of Alumni Feedback

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ANALYSIS OF ALUMNI FEEDBACK 2022-23

1. **About the Institute:**

Sr No	Parameter	Excellent	Good	Average
(a)	Academic Environment		✔	
(b)	Skill Development		✔	
(c)	Co-curricular Activities	✔		
(d)	Campus Placements	✔		
(e)	Environment	✔		

2. Areas of Support by Alumni (Dominant areas from higher to lower priority):
   (a) Giving guidance and mentorship to students to make students industry ready — 82%
   (b) Delivering expert lectures to the students — 52%
   (c) Support for placement or internship — 33%
   (d) Support for final year project — 30%
   (e) Support for industrial training for 1-2 months (with/ without stipend) - 16%
   (f} Providing opportunity to faculty for necessary hands on training on latest/ advanced machines or software available in organization - 12%
   (g) Extend financial support to organize activities such as conference, symposiums, poster presentations etc — 11%
   (h) Arranging industrial visits — 9%
   (j) Funding specific lab/ department — 8%
   (k) Scholarship for needy students - 0
   (l) Sponsorship for events - 0

3. Program Outcomes:

Sr No	Program Outcomes	Percentage
(a)	Engineering Knowledge (PO 1)	60%
(b)	Problem Analysis (PO 2)	80%
(c)	Design/ Development of Solutions (PO 3)	70%
(d)	Conduct investigations of Complex Problems (PO 4)	60%
(e)	Modern Tool Usage (PO 5)	60%
(f}	The Engineer and Society (PO 6)	60%
(g)	Environment and Sustainability (PO 7)	60%
(h)	Ethics (PO 8)	65%
(J)	Individual and Team Work (PO 9)	80%
(k)	Oral & Written Communication (PO 10)	75%
(l)	Project Management and Finance (PO 11)	70%
(m)	Life Long Learning (PO 12)	80%