Part – A

1.Details of the Institution

1.1 Name of the Institution

Army Institute of Technology

1.2 Address Line 1

Alandi Road

Address Line 2

Dighi

City/Town

Pune

State

Maharashtra

Pin Code

411015

Institution e-mail address

ait@aitpune.edu.in

Contact Nos.

020-27157534

Name of the Head of the Institution:

Director, Brig A. A. Bhat (Retd.)

Tel. No. with STD Code:

020-27157534

Mobile:

9967032089

Name of the IQAC Co-ordinator:

Dr. Sujata Marathe

Mobile:

9921445544

IQAC e-mail address:　　　　　　naac_coord@aitpune.edu.in

1.3 **NAAC Track ID***(For ex. MHCOGN 18879)*　　NAAC/WR/GH/MHCOGN10824

1.4 **NAAC Executive Committee No. &Date:**　　EC(SC)/17/A&A/24.3 dated 16-09-2016
(For Example EC/32/A&A/143 dated 3-5-2004.
This EC no.is available in the right corner-bottom
of your institution's Accreditation Certificate)

1.5 Website address:　　　　　www.aitpune.com

Web-link of the AQAR:　　www.aitpune.com/Documents/AQAR 2017-18.pdf

1.6 Accreditation Details

Sl.No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1st Cycle	B+	77.1	2004	5 Yrs
2	2nd Cycle	B	2.81	2010	5 Yrs
3	3rd Cycle	A	3.06	2016	5 Yrs
4	4th Cycle			-	-

1.7 Date of Establishment of IQAC :　　　DD/MM/YYYY　　25/02/2005

1.8 AQAR for the year*(for example 2010-11)*　　2017 - 18

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((*for example AQAR 2010-11submitted to NAAC on 12-10-2011)*

　i.　　　　AQAR____2016-17_____submitted on 20/12/2017_____ (DD/MM/YYYY)
　ii.　　　AQAR____2015-16_____submitted on 20/12/2016_____ (DD/MM/YYYY)
　iii.　　AQAR____2014-15_____submitted on 04/12/2015_____ (DD/MM/YYYY)
　iv.　　AQAR____2013-14_____submitted on 24/12/2014_____ (DD/MM/YYYY)

1.10 Institutional Status

University   State [   ] Central [   ]   Deemed [   ]   Private [√]

Affiliated College   Yes [√]   No [   ]

Constituent College   Yes [   ]   No [   ]

Autonomous college of UGC   Yes [   ]   No [   ]

Regulatory Agency approved Institution   Yes [√]   No [   ]

   (eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution   Co-education [√]   Men [   ]   Women [   ]

                  Urban Rural [√]   Tribal [   ]   [   ]

Financial Status Grant-in-aid [   ]   UGC 2(f) [√]   UGC 12B [√]

                 Grant-in-aid +Self Financing [   ] Totally Self-financing [√]

1.11 Type of Faculty/Programme

      Arts [   ]   Science [   ] Commerce [   ] Law [   ]   PEI(PhysEdu) [   ]

      TEI (Edu) [   ] Engineering [√] Health Science [   ]   Management [   ]

      Others(Specify) [   ]

1.12 Name of the Affiliating University *(for the Colleges)*   [Savitribai Phule Pune University]

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University   [   ]

University with Potential for Excellence [   ]   UGC-CPE   [   ]

DST Star Scheme [ ]   UGC-CE [ ]

UGC-Special Assistance Programme   DST-FIST [ ]   [ ]

UGC-Innovative PG programmes [ ]   Any other (*Specify*) [2f, 12B granted]

UGC-COP Programmes [ ]

2. IQAC Composition and Activities

2.1 No. of Teachers [6]

2.2 No. of Administrative/Technical staff [4]

2.3 No. of students [2]

2.4 No. of Management representatives [1]

2.5 No. of Alumni [2]

2. 6 No. of any other stakeholder and

community representatives [2]

2.7 No. of Employers/ Industrialists [2]

2.8 No. of other External Experts [2]

2.9 Total No. of members [21]

2.10 No. of IQAC meetings held [01]

2.11 No. of meetings with various stakeholders: No.   Faculty [2]

Non-Teaching Staff [2]   Students [02]   Alumni [2]   Others [*16]

*HOD meetings, Extended Student Council meeting

2.12 Has IQAC received any funding from UGC during the year?   Yes   No [√]

If yes, mention the amount [ ]

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the Internal Quality Assurance Cell

Total Nos. [ ] International [0] National [0] State [0] Institution Level [1]

(ii) Themes [FDP on ICT for Education]

2.14 Significant Activities and contributions made by IQAC

> Based on inputs from IQAC and its sub committees, the college has organised guest lecture for motivating students to take up higher studies. MOODLE based teaching learning platform is being used. Students are being motivated to complete at least one MOOC and one internship/ sponsored project. Placements in core and high end companies have increased. College has increased the capacity of the solar photo voltaic power plant. ERP is in the process of implementation (2017-18). College is planning to apply for autonomous status.

2.15 Plan of Action by IQAC/Outcome

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 *

Plan of Action	Achievements
Consistently good results with greater than 95% all clear at final year.	Final year result of 95.6% was achieved.
Increased use of technology assisted learning (TAL).	(a) FDP on ICT in Education was conducted. (b) Use of MOODLE amongst students encouraged.
Value added courses and MOOC.	Benchmark of one value added course/MOOC per student was achieved.
Increase thrust on placements in core and high end companies.	Placements in core and high end companies have increased.
Benchmarking of outreach activities.	Benchmark of outreach activities was reached.
Benchmarking of feedback from stakeholders.	Benchmark of feedback from stakeholders was achieved.
Benchmarking of Research and consultancy activities.	Benchmarks partially achieved.
Increase the number of guest lectures.	Adequate guest lectures were held in each department.

2.15 Whether the AQAR was placed in statutory body   Yes [ ]   No* [√]

Management [ ]   Syndicate [ ]   Any other body [ ]

Provide the details of the action taken

*Will be placed in College Development Committee in Dec. 2018

Part – B

Criterion – I
1. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	0	0	0	0
PG	1	0	0	0
UG	4	0	0	1
PG Diploma	0	0	0	0
Advanced Diploma	0	0	0	0
Diploma	0	0	0	0
Certificate	0	0	0	2
Others	0	0	0	0
Total	5			03
Interdisciplinary	0	0	0	0
Innovative	0	0	0	0

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options: **Elective and Core**
(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	4 (IT,Comp,ETC, Mech)
Trimester	NA
Annual	NA

1.3 Feedback from stakeholders*Alumni [YES] Parents [YES] Employers [YES] Students [YES]
  (On all aspects)

Mode of feedback: Online [YES] Manual [YES] Co-operating schools (for PEI) [ ]

Please provide an analysis of the feedback in the Annexure

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

> Yes, third year syllabus has been revised by affiliating university

1.5 Any new Department/Centre introduced during the year. If yes, give details.

> FT 42 lab, Skill Development Centre (PMKVY), Remote Centre for IIT Bombay

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
63	47	11	04	01

2.2 No. of permanent faculty with Ph.D.

> 12

2.3 No. of Faculty Positions Recruited (R) and Vacant(V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
02	-	-	-	01	-	-	-	03	-

2.4 No. of Guest and Visiting faculty and Temporary faculty | 0 | | 0 | | 21 |

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	19	08	04
Presented papers	19	08	02
Resource Persons	-	02	05

2.6 Innovative processes adopted by the institution in Teaching and Learning:

> Online e-learning software " MOODLE " is used. On this system learning material is uploaded, assignments and online quizes are conducted. Incubation centre organizes business plan and case study competitions for students. A large number of guest lectures, industrial visits are arranged. Guidance for GATE, mini projects.
>
> Final year students have recorded video lectures on their subjects and uploaded on website.

2.7 Total No. of actual teaching days during this academic year | 180 |

2.8 Examination/ Evaluation Reforms initiated by
the Institution(for example: Open Book Examination, Bar Coding,
Double Valuation, Photocopy, Online Multiple Choice Questions)

Online multiple choice class test, in sem exam, bar coding, midsem exam and online exam

2.9 No. of faculty members involved in curriculum
restructuring/revision/syllabus development

-	-	08

as member of Board of Study/Faculty/Curriculum Development workshop
Total:

08

2.10 Average percentage of attendance of students

75

2.11 Course/Programme wise distribution of pass percentage :

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
BE COMP	60	91.66	5.00	-	-	-
BE IT	63	87.30	7.93	1.58	-	-
BE E&TC	111	81.08	9.90	-	-	-
BE MECH	60	93.66	5.00	-	-	-

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

Important policy decisions on teaching learning are taken at the GBM(Governing Body Meeting), AAC(Academic Advisory Committee) and CDC (College Development Committee) based on inputs from IQAC. The decisions are then executed at the necessary levels/departments. The teaching learning and evaluation is as per norms of the affiliating university. Additional skills as desired by the stakeholders, especially the employers are provided to students.

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	33
UGC – Faculty Improvement Programme	11
HRD programmes	17
Orientation programmes	09
Faculty exchange programme	06
Staff training conducted by the university	11
Staff training conducted by other institutions	14
Summer / Winter schools, Workshops, etc.	08
Others	15

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	44	03	0	03
Technical Staff	21	03	0	03

Criterion – III

3.Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

R&D cell is established. Faculty is motivated to undertake projects and attend conferences and present papers. The are encouraged to publish papers in peer reviewed journals. College also has an incubation centre and an industry institute interaction cell.

3.2   Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	-	1	-	-
Outlay in Rs. Lakhs	-	14.5	-	-

3.3   Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	07	05	-	09
Outlay in Rs. Lakhs	9.2	7.4	--	25.22

3.4   Details on research publications

	International	National	Others
Peer Review Journals	12	-	-
Non-Peer Review Journals	04	-	-
e-Journals	07	-	-
Conference proceedings	29	07	-

3.5 Details on Impact factor of publications:

Range 1-4   Average 1   h-index 3 - 8   Nos. in SCOPUS 4

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	2016-19	SERB,DST	14.5 lakh	14.5 lakh
Minor Projects	2016-18	BCUD	7.4 lakh	3.70 lakh
Interdisciplinary Projects	--	--	--	--
Industry sponsored	--	--	--	--
Projects sponsored by the University/ College				
Students research projects *(other than compulsory by the University)*	--	--	--	--
Any other(Specify)(Minor)				
Total		--		

3.7 No. of books published   i) With ISBN No. [02]   Chapters in Edited Books [03]

ii) Without ISBN No. [-]

3.8 No. of University Departments receiving funds from

UGC-SAP [--]   CAS [--]   DST-FIST [--]

DPE [--]   DBT Scheme/funds [--]

3.9 For colleges   Autonomy [--]   CPE [--]   DBT Star Scheme [--]

INSPIRE [--]   CE [--]   Any Other (specify) [   ]

3.10 Revenue generated through consultancy   [Rs 60, 000/- Training and testing]

3.11 No. of conferences

organized by the Institution

Level	International	National	State	University	College
Number	-	-	-	01	
Sponsoring agencies				SPPU	

3.12 No. of faculty served as experts, chairpersons or resource persons [15]

3.13 No. of collaborations [-]   International [   ]   National [01]   Any other

3.14 No. of linkages created during this year [01]

3.15 Total budget for research for current year in lakhs :

From Funding agency [Rs 4.99 lakh]   From Management of University/College [Rs 36.5 lakh]

Total   Rs 41.49 lakh

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	01
	Granted	--
International	Applied	--
	Granted	--
Commercialised	Applied	-
	Granted	--

3.17 No. of research awards/ recognitions received by faculty and research fellows
Of the institute in the year

Total	International	National	State	University	Dist	College
--	--	01	--	-	--	--

3.18 No. of faculty from the Institution
who are Ph.D.Guides   04
and students registered under them   14

3.19 No. of Ph.D. awarded by faculty from the Institution   NA

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF -   SRF -   Project Fellows -   Any other   -

3.21 No. of students Participated in NSS events:

University level 100   State level 02

National level [ ]   International level [ ]

3.22 No. of students participated in NCC events:

University level [ ]   State level 01

National level [ ]   International level [ ]

3.23 No. of Awards won in NSS:

University level 1   State level [ ]

National level [ ]   International level [ ]

3.24 No. of Awards won in NCC:

University level [ ]   State level [ ]

National level [ ]   International level [ ]

3.25 No. of Extension activities organized

University forum [08]   College forum [ ]

NCC [--]   NSS [12]   Any other [--]

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

Blood Donation Camps
Orphanage Visits
Tree Plantation
Awareness Programmes/Marches/Rallies
Model Making Competitions
Bringing Students From Municipal Schools To Our College
Participation in Competitions Organised By University NSS club - Street Play On Sensitive Topics
Conducting Leadership Workshops
Celebrating Independence Day And Republic Day

Criterion – IV
4.Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	30 ACRES	--	--	30 ACRES
Class rooms	21	-	--	21
Laboratories	40	01	--	41
Seminar Halls	5	-	--	5
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	-	4	Institute	4
Value of the equipment purchased during the year (Rs. in Lakhs)	-	4.2	Institute	4.2
Others	-	-	-	-

4.2 Computerization of administration and library

> Library has Wi-Fi connectivity in reading hall, a separate digital section,
> computerised issue of books with RFID tags, CCTV are installed. Scanning and
> printing facility is extended to students.

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	26421	96,36,290	907	4,61,159	27328	100,97,449
Reference Books	4761	29,27,069	443	3,23,742	5204	32,50,811
e-Books		1,88,588*	686	2,27,171*	686	2,27,171*
Journals	76	1,72,948*	73	2,48,600*	73	2,48,600*
e-Journals	740	22,57,065*	962	19,08,846*	962	19,08,846*
Digital Database			-	-		
CD & Video	2013		-	-	2013	
Others (specify) NPTEL web courses NPTEL videos	129 324	1,00,000			129 324	1,00,000

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart-ments	Others
Existing	498	21	1GBPS+ 100MBPS	6	3			
Added	61	2	0					
Total	559	23	1GBPS+ 100MBPS	6	3			

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

> Networking, Wi-Fi for new library building and for new accommodation by optic
> fibers.

4.6 Amount spent on maintenance in lakhs :

i) ICT | 38.34

ii) Campus Infrastructure and facilities | 277.69

iii) Equipments | 205.22

iv) Others | 87.77

Total : | 409.02

Criterion – V
5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

1. Infrastructure development in the departments.

2. Increase in the number of workshops and guest lectures

3. R&D lab

4. Incubation centre for entrepreneurship development.

Students are encouraged to participate in technical competitions, co-curricular activities.

5.2 Efforts made by the institution for tracking the progression

1. Result analysis and implementation of corrective measures
2. Continuous monitoring of class tests, co curricular activities by respective counsellors.
3. Co curricular Credit Based Assessment System adopted.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
1267	15	--	--

(b) No. of students outside the state | 1282

(c) No. of international students | 00

No	%	Men
1113	86.8	

No	%	Women
169	13.2	

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
*	*	*	*	*	1282	*	*	*	*	*	1282

*Note - AIT admits students purely on merit hence no data is available

Demand ratio : 10:01   Dropout: 12(Due to admission obtained to NDA/TES for Army commissioning)

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

Various seminars, guest lectures, aptitude test training sessions and mock personal interview sessions have been organized for the students. SSB Coaching and sessions on higher studies also were conducted.

No. of students beneficiaries   300

5.5 No. of students qualified in these examinations

NET --   SET/S LET --   GATE 09   CAT 04

IAS/IPS etc --   State PSC --   UPSC --   Others 11

GRE 03

5.6 Details of student counselling and career guidance

Career guidance activities carried out were:-
(i)   Various seminars and guest lectures
(ii)   Corporate readiness program.
(iii)   Aptitude test training sessions and mock personal interviews
(iv)   SSB Coaching.
(v)   Sessions on higher studies.
(vi)   Entrepreneurial talks.
(vii)   Psychological counselling if needed   to individual students.

No. of students benefitted   300

5.7 Details of campus placement

On campus			Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
66	283	261	-

5.8 Details of gender sensitization programmes

Workshop by ICC, Counselling by teachers.

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events

State/ University level   11   National level   -   International level   -

No. of students participated in cultural events

State/ University level   15   National level   -   International level   -

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports: State/ University level [ ]   National level   -   International level   -

Cultural: State/ University level [ ]   National level   -   International level   -

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	76	5.5 lakh
Financial support from government		
Financial support from other sources	385	181.73 lakh
Number of students who received International/ National recognitions		

5.11Student organised / initiatives

Fairs   : State/ University level   --   National level   --   International level   --

Exhibition: State/ University level   --   National level   --   International level   --

5.12No. of social initiatives undertaken by the students

6

5.13 Major grievances of students (if any) redressed: nil

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

VISION:

WE AT AIT, STRIVE FOR EXCELLENCE IN PROVIDING THE RIGHT ENVIRONMENT FOR
DEVELOPMENT OF PHYSICAL, INTELLECTUAL, EMOTIONAL AND SPIRITUAL QUOTIENTS WITH
A VIEW TO PRODUCE TOTAL QUALITY ENGINEERS, PREPARING THEM TO FACE CHALLENGES
OF THE MODERN INFORMATION SOCIETY.

MISSION :

PROVIDE STATE OF THE ART INFRASTRUCTURE TILL DEEMED SUFFICIENT THROUGH INPUT
OF STAFF AND STUDENTS FOR BUILDING UP A CENTRE OF EXCELLENCE. NURTURE AND
FOSTER AN ACADEMIC FRATERNITY TO CATER TO THE NEED OF THE ENGINEERING STUDENTS
COMMUNITY. ENCOURAGE AND MOTIVATE STAFF AND STUDENTS TO UTILIZE THE FACILITIES
PROVIDED TO THEM WITH THEIR INNOVATIVE AND CREATIVE THINKING IN AN EFFECTIVE
WAY FOR THEIR OVERALL DEVELOPMENT. AUGMENT ALL AVAILABLE AVENUES TO DEVELOP
STAFF AND STUDENTS FOR THE EMERGING NEED OF SOCIETY AND DEVELOP ARMY
INSTITUTE OF TECHNOLOGY INTO A GLOBAL CENTRE OF EXCELLENCE IN THE FIELD OF
TECHNICAL ENGINEERING EDUCATION.

6.2 Does the Institution has a management Information System

Yes. Moodle for learning management, student information system (for parents to keep up
dated with ward's progress/performance), payroll and leave management system. ERP in
being implemented from 2017-18. Institute is having its own website.

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1   Curriculum Development

Students have the option of opting for 'open electives'. The institute conducts several value
added courses. Students are encouraged to undergo and complete online courses like
MOOC. Students are also encouraged to undertake mini projects. One MOOC course
compulsory for third year students and one mini project compulsory for first year students.

6.3.2 Teaching and Learning

As per the affiliating university; Savitribai Phule Pune University (SPPU) with emphasis on tutorial discussion method. Use of ICT is encouraged. Guest lectures, seminars and workshops are arranged. Around 50% of students undertake industry sponsored projects

6.3.3 Examination and Evaluation

In-sem, offline , midsem, open book, surprise tests, online, mock online, end term exams.

6.3.4 Research and Development

Staff is encouraged to take up higher studies, R&D projects, students are encouraged to take mini projects, paper presentations. Patents have been filed by staff and students.

6.3.5 Library, ICT and physical infrastructure / instrumentation

Wifi enabled classrooms with modern projection system, seminar halls with projection system and PA system, e-journal. Central library. Webinars are held and video conferencing technology is installed.

6.3.6 Human Resource Management

The strategy is based on guidelines of SPPU and Army Welfare Education Society (AWES) policies.

6.3.7 Faculty and Staff recruitment

As per University and AWES procedures

6.3.8 Industry Interaction / Collaboration

MoUs, Campus Connect, Campus Recruitment, sponsored labs, technical sessions, summer and winter internships, sponsored projects, scholarship initiatives, innovation/ coding competitions and industrial visits. HACKATHON was held in collaboration with industries.

6.3.9 Admission of Students

Based on JEE main rank for UG and GATE score for PG.

6.4 Welfare schemes for

Teaching	BEST TEACHER/BEST RESULT AWARDS/BEST RESEARCHER
Non teaching	BEST NON-TEACHING STAFF AWARD, UNIFORM AND SHOES FOR GROUP IV EMPLOYEES.
Students	SCHOLARSHIPS

6.5 Total corpus fund generated   Rs 2725 lakh

6.6 Whether annual financial audit has been done   Yes   YES   No

6.7 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	YES	ISO, ANNUAL INSPECTION BY AWES SOUTHERN COMMAND	YES	DIRECTOR, PRINCIPAL, HODS
Administrative	YES	ISO,ANNUAL INSPECTION BY AWES SOUTHERN COMMAND	YES	DIRECTOR,JOINT DIRECTOR AND PRINCIPAL

6.8 Does the University/ Autonomous College declare results within 30 days?

For UG Programmes   Yes   ✓   No

For PG Programmes   Yes   √   No   --

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

> Syllabus Revision, Modification In Exam And Evaluation Schemes , Inclusion Of Part Online Assessment for First And Second Year Students, Introduction Of In Semester Exam for Third Year Students. CGPA System Of Grading, Audit Courses And Physical Test Introduced.

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

> University encourages autonomy and our institute plans to get autonomy in 1 to 2 years time.

6.11 Activities and support from the Alumni Association

Annual Alumni Meet, Regional Meet, Value Add Sessions, Sponsorship for project competitions, guest lectures, internship opportunities and sponsored lab and Guidance to students.

6.12 Activities and support from the Parent – Teacher Association

The college provides and on line forum for interacting with the parents as most of them are army personnel posted in far off places. There is constant interaction through counselors and the administration in person or telephonically. In addition one Parent Teacher Meeting was conducted on 10/02/18.

6.13 Development programmes for support staff

Being arranged through inside /outside agencies.

6.14 Initiatives taken by the institution to make the campus eco-friendly

1. Sewage treatment plant and recycled sewage water for greening projects.

2. Solar photovoltaic power plant to augment electricity consumption and provide green energy.

3. Old fans being replaced by energy efficient fans. Old lights being replaced by LED bulbs and tubes.

4. Zero waste system is in place

Criterion – VII

7. <u>Innovations and Best Practices</u>

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

> Innovation and incubation cell established in Sept 2014. Mini projects introduced from first year. LED lights in common areas. A couple of patents were filed. Solar system additional capacity added.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

> Increased use of technology assisted learning (TAL) , Placements in core and high end companies have increased, Co curricular credit based system CCCBAS is adopted.
>
> Each department prepares Action Taken Report based on plan of action decided in the Academic Advisory Committee (AAC) meeting at the beginning of the year.

7.3 Give two Best Practices of the institution *(please see the format in theNAAC Self-studyManuals)*

> 1. Participative management with ESCM, weekly divisional heads meeting, monthly flank in charge meeting and brain storming sessions
>
> 2. Curriculum enrichment with value added courses, expert lecture, mini projects, internships, club activities, project competitions and CCCBAS.

7.4 Contribution to environmental awareness / protection

> Green Rally: Paper bags were made, by our students, from old newspapers, and distributed at Vishrantwadi, with message to re use and recycle and avoid the use of plastic bags.
> Swach Bharat Abhiyan: Cleanliness drive consisting of awareness drive, in house cleaning, cleaning the neighbourhood.
> Rain Water Harvesting at NBH-I, Use of LED lights at Sports Complex and Sport Ground, Replacement of exiting Tube lights with LED Tube lights, Replacement of exiting Ceiling Fans with Super Energy Saver Ceiling Fans, Tree Plantation.

7.5 Whether environmental audit was conducted?   Yes ☐   No ☑

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

STRENGTHS :

1. Admissions based on JEE-Main ranks with no quotas.

2. Disciplined Armed forces background of students.

3. Almost 90% residential students.

4. Peer induced personality development

WEAKNESSES :

1. Research and Consultancy needs to be enhanced

OPPORTUNITIES:

1. Increasing alumni support for growth of college

2. Sponsored projects from DRDO and other Army establishments

THREATS:

1. Expansion of NITs and IITs with lower fee structure attracting higher merit students

2. Increasing number of good colleges coming up in Northern India closer to native residence of students.

8. Plans of institution for next year

Zero waste management.

Skill development courses (lathe/IOT).

MKCL and Klick courses.

MOU with IIT Bombay, Robu.in, Sigma Electric Manufacturing Corp., Forbes Marshall, Imedita

Revenue generation through Consultancy.

Submission of application for autonomy.

Name   Dr Sujata Marathe   *Name   Brig A A Bhat (Retd)*

_____   _____

Signature of the Coordinator, IQAC   *Signature of the Chairperson, IQAC*

_____***_____

Abbreviations:

CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission

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(Ref Criterion I 1.3)

ANALYSIS OF FEEDBACK 2017-18

A) Student feedback on Teaching Faculty

The feedback is conducted on eight different parameters related with teaching learning abilities, communication skills and discipline. Out of a total index score of 10 more than 60 % teachers scored more than 9 on these parameters. Only 2-3% teachers scored between 6-7 out of 10 in these parameters. Teachers were confidentially conveyed their student feedback, draw backs if any were also conveyed and corrective action suggested.

B) Feedback from Alumni

1.   More than 60% of alumni agreed that Program Outcomes were achieved, like ability to –

   - identify and analyze complex engineering problems.
   - function effectively as an individual and as a member or leader in diverse teams or
    multidisciplinary settings.
   -apply ethical principles and commit to professional ethics.
   -apply reasoning informed by contextual knowledge to societal, health, safety legal and cultural issues relevant to professional engineering practice.
   - engage in independent and lifelong learning.

2.   More than 60% responded that the academic environment provided at AIT was excellent and 70 % rated that their undergraduate experience at AIT was excellent.

C) Feedback from Employers

SUMMARY OF INDUSTRY FEEDBACK (B.E 2017-18 BATCH)

Name of Industry	Dept.	Improvement Areas			
		Core Subjects	Teaching-Learning Methods	Skill Sets Expected	New Subjects/ Pgms suggested
Intelegencia Analytics	Comp, E&TC, IT	-	-	Communication Skills	-
Konecranes	Mech	- Mechanics. - Fluid Mechanics	-	-	-
Thermax	Comp, IT	-	-	Applications in Industry	Artificial Intelligence
Hyundai Construction Equipment	Mech	-	-	-	CAD Certification
HSBC Technology	Comp, E&TC, IT	-	-	Applications of Technology	Artificial Intelligence, Cloud
Saint Gobain India	Mech	Thermodynamics	-	Exposure to new technologies	-
KPIT	Comp, E&TC, IT	- C++. - Algorithms. - Data Structures.	-	Programming Skills	-
Varroc Group	E&TC	- Basic circuit design, analog circuits.	Electronics Hardware subjects	More Hands on	Detailed course on Embedded Systems
Oracle India	Comp, E&TC, IT	- Data Structures. - Algorithms.	Data Structures	-	-
KPMG	Comp, E&TC, IT	Cyber Security	- Analytics. - Cyber Security.	-	Data Analytics
DassaultSystemes	Comp, IT, Mech	- EnggMaths. - Thermal Engg. - OOPS	-	Basic Coding	-
ZS Associates	All	-	-	Coding Accuracy	-
Josh Software	Comp, E&TC, IT	Data Structures	Web Technology	-	Web Tech
Technip FMC	Mech	- SOM - Mechanics - Machine Design	- SOM - Expectation from corporate	-	Corporate transition
John Deere India	Comp, IT, Mech	- Java - Databases - Hydraulics	Technical Group Discussion	-	Java training
Veritas Technologies	Comp, IT	- C++ - OS	-	-	-

D) Feedback from Parents

Majority of the parents (above 81%) are satisfied with the standard of academics, discipline and hostel facilities maintained at the college. Areas for improvement given by parents and Action taken by management are summarized in the table below:

S No.	Area for improvement in Academics	Action taken
1	Counseling regarding internship to be given to student	Counseling during admission is given and further counselling by class counselors
2	Scholarship reservation may be removed	Guidelines given by AWES and sponsor are being followed
3	Motivate student to study regularly and take care of health	Being done by counsellors and HoD
4	NCC training should be given in Institute	Application has been made but permission from Govt. has not yet been received
5	Teaching needs to be more technology and practical based	Almost all teaching material is on LMS and teachers are using PPT and videos during teaching. Students are doing mini-projects. Hands on workshops are also regularly conducted.
6	College should be in top class comparable to IIT	AIT is among the top 100 Engineering colleges in India. Current NIRF ranking of AIT is 88.
7	Industry oriented academics and practical sessions are required	Various competitions, workshops, seminars and industry visits are regularly organized. Many students undertake industry sponsored projects and internships.

S No.	Area for improvement in Administration	Action taken
1	Increase in facilities for e.g. screening of movies, swimming pool	Special screening of movies on demand in Raman theatre is being done
2	Students coming to AIT face problems while crossing road at college entrance	Zebra stripes have been made on both sides of the college entrance
3	Solar water for bath is insufficient for all students	Planning for augmentation of hot water is in progress
4	New furniture required in hostels	Additional furniture like charpoys (50), tables (50), almirahs (60) have been procured and delivered to individual students
5	Cleaning of individual rooms is not	*Safai karmacharis* are deputed on holidays and

	being done as students lock their rooms before leaving for classes	Sundays. Additional cleaning equipment has been procured and deployed for hostels.
6	Laundry service is poor and not delivered on time	The laundry vendor has been warned, if services do not improve he will be changed
7	Cafeteria food standards need improvement. Messing standards should be improved, i.e., 3 days veg. And 3 days non-veg.	Checked. Cafeteria standards are satisfactory. With present messing rates only 2 days non-veg. Can be served every week. New restaurant in campus has been opened to provide more variety.
8	More marketing of institute, to get no.1 companies. Many multinationals give preference as CSR activity to engage defence and ex-servicemen in their recruitment.	Under consideration. Special drive for promotion/ publicity undertaken during the AIT Silver Jubilee.

ACADEMIC CALENDAR 2017 – 18 (SEM – I)

DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1.		~ 1st Saturday ~ Commencement of ME II ~ FE Talent Hunt				Sunday		Id-A-Milad
2.		Sunday ~ FE Talent Hunt	BE Project Review – E&TC	~ Bakari Id ~ 1st Saturday ~ FE Online Exam – I End	~ Gandhi Jayanti ~ World Pedestrian - NSS			1st Saturday
3.	1st Saturday	~ FE Orientation ~ Value Addition Course (Start) E&TC		Sunday	FE Online Exam – II Start			Sunday
4.	Sunday	~ FE Orientation	~ Model Making – Astronomy ~ Guest Lecture – BE&TE Mech ~ Ind Visit - TE E&TC ~ Guest Lecture - Maths		~ Blood Donation – NSS ~ Guest Lecture	~ Gurunanak Jayanti ~ 1st Saturday		
5.		~ FE Orientation	1st Saturday ~ SE Cultural Prog for Fresher	Anant Chaturdashi		Sunday		
6.		~ FE Session Start	Sunday					
7.		~ Guest Lecture – TE Mech ~ Workshop – SE IT | Ind Vistit SE E&TC		Industrial Visit – TE Mech	1st Saturday			
8.	Director's address - faculty	~ Workshop – SE IT ~ All Clubs Meeting			Sunday			
9.		Sunday		~ Guest Lecture – BE E&TC ~ Guest Lecture – TE&BE IT ~ All Clubs Meeting	FE Online Exam – II End	Practical / Oral SE / TE / BE End		
10.				Sunday	~ ESCM			Sunday
11.	Sunday	ESCM	~ Ind Visit - BE E&TC ESCM	MID Sem II – E&TC		Practical Examination ME – II End		
12.	FDP / Orientation of New Faculty		~ IETE Competition – ELECTROLYMPICS ~ All Clubs Meeting			Sunday		~ Theory Exam SE / TE / BE End
13.			Sunday	~ Aakriti				
14.		~ Guest Lecture – TE E&TC ~ Guest Lecture – SE&TE IT	~ Movie Screening, Candle March, Hindi Diwas – NSS ~ Poster Presentation - Maths	~ Aakriti ~ ESCM	~ All Clubs Meeting	~ Kartiki Ekadashi ~ Theory Exam SE / TE / BE Start		
15.	Commencement of SE to BE	3rd Saturday	Independence Day – NSS ~ Visit to SPPU - Maths	~ Aakriti ~ GBM (Tentative)	Sunday			FE Theory Exam End
16.		~ Sunday	~ Essay Writing – NSS ~ Guest Lecture - ME	3rd Saturday				3rd Saturday
17.	3rd Saturday	MID Sem Exam - E&TC	Parsi New Year	Sunday				Sunday
18.	Sunday Alandi Yatra		Guest Lecture – SE&TE E&TC		~ Conclusion of SE to BE	3rd Saturday		Commencement of Teaching FE to BE (Term II)
19.			3rd Saturday		Diwali	Sunday		
20.		~ FE Interaction ~ Guest Lecture – BE E&TC ~ Bhattacharya Quiz – Maths	Sunday	Orphanage Visit – NSS	Diwali			
21.	Yoga Day Celebration	~ Guest Lecture – SE E&TC | Unit Test - IT	Workshop – TE IT | In Sem Examination SPPU	Ghatsthapana	~ 3rd Saturday ~ Bhavbij			
22.	~ Dir Address to Students ~ BOS Meeting E&TC	~ All Clubs Meeting		Astro Quiz – Astronomy | Workshop - BE IT	Sunday			
23.		Sunday	~ Industrial Visit – SE Mech ~ Workshop – TE IT	~ Project Review – BE E&TC ~ All Clubs Meeting				
24.	Seminar – TE E&TC	IETE Activity – E&TC		~ Sunday ~ Model Making – NSS	Practical / Oral SE / TE / BE Start			Sunday
25.	Sunday		Ganesh Chaturthi					Christmas
26.	Ramzan Id	Workshop – SE&TE Mech	~ In Sem Exam SPPU ~ All Clubs Meeting	~ Unit Test – IT ~ JD's Hostel Inspection		~ Sunday ~ "EUREKA" – Astronomy		
27.	JD's Hostel Inspection	JD's Hostel Inspection	Sunday			Guest Lecture - Astronomy		
28.	FE Admission	Screening Test – Astronomy	FE Online Exam – I Start		~ Conclusion of ME II ~ All Clubs Meeting			
29.	FE Admission	Movie Show - Astronomy	JD's Hostel Inspection	~ Flank Meeting with Director	Sunday			
30.	~ FE Admission ~ Guest Lecture – SE Mech ~ GATE Orientation – BE E&TC ~ Flank Meeting with Director	Sunday	Ind Visit – SE IT	Dasera	Practical Examination ME – II Start	FE Theory Exam Start		
31.		~ Flank Meeting with Director	~ Flank Meeting with Director					Sunday

Sports Club : - (a) Team Selection Trial & Practice – Jun 2017 & Jul 2017

(b) Inter Collegiate InterZonal Matches (Under SPU & District Level) – 01 Aug to 30 Oct

NSS Club :- (a) Nirmal Wari – Awareness about usage of Toilets – Jul 2017

(b) Interactive Session on Social Causes & Motivating Talk (for FE) – Jul 2017

(AA Bhat)
Brig (Retd)
Director

ACADEMIC CALENDAR 2017 – 18 (SEM – II)

DATE	DEC '17	JAN '18	FEB '18	MAR '18	APR '18	MAY '18
32.	Eid e Milad				Sunday / Magazine – Newsletter	
33.	1st Saturday	SPPU Phy Edu Exam Start - FE	Workshop SE IT / TE IT		Unit Test 2 - IT	Theory Exam (FE to BE) Start
34.	Sunday		1st Saturday	1st Saturday		
35.		Seminar on "Design in Engg" - Mr. Gokhale (Mech)	Sunday	Sunday	Unit Test 2 - IT ‖ - Guest Lecture (Comp) / - Guest Lecture BE Mech	
36.		- CDC Meeting (Tentative) / - SPPU Phy Edu Exam End – FE / - NSS – Camp at Khamgaon Start	- Unit Test I – E&TC & Mech Start / - Online Phase I (FE,SE) Start	- Ind Visit SE & BE E&TC / - Online Phase II (FE,SE) Start		1st Saturday
37.		- 1st Saturday / - SPPU Cricket (B) Start		- Unit Test I – IT / - Ind Visit TE E&TC / - InSem Exam (TE, BE) Start	Conclusion of Teaching (FE to BE)	Sunday
38.		Sunday	- Project Day (BE Comp) / - Unit Test I – E&TC & Mech End	Unit Test I – IT ‖ Seminar (TE Comp)	1st Saturday	
39.					Sunday	
40.	Faculty Day Lecture	Ind Visit BE E&TC		Workshop for SE (E&TC) ‖ Seminar (TE Comp)	Practical / Oral / Project Exam (FE to BE) Start	Conclusion of Teaching (ME I & II)
41.	Sunday	- Project Day (BE) / - Guest Lecture SE Mech	- Parents Meeting / - Media Campaigning / - Faculty Day Lecture / - Faculty Day – IT Dept / - Workshop on Blender (SE Comp) / - Online Phase I (FE,SE) End	- Faculty Day Lecture / - Open Source Activity (Comp) / - Workshop for SE (E&TC) / - IETE Project Competition / - Online Phase I (FE,SE) End / - InSem Exam (TE, BE) End		
42.	FPL II Online	- SPPU Cricket (B) End / - NSS – Camp End	- Sunday / - Magazine - TEDX	Sunday		Practical Exam (ME I & II) Start
43.	Interaction with Mech & IT Dept	Project Review – BE Mech	- Guest Lecture (TE Comp) / - Guest Lecture (SE E&TC)	Guest Lecture (Comp)	Magazine – College Magazine	Faculty Day Lecture
44.	Interaction with E&TC & Computer	- Faculty Day Lecture / - Python Workshop (SE Comp) / - AAC Meeting / - ESCM	- Guest Lecture (TE E&TC) / - Ind. Visit – SE Mech ESCM	Audit Course (SE TE Comp)		Sunday
45.	FDP for Faculty	- Sunday / - Magazine - Reverse	- Guest Lecture (BE E&TC)	Audit Course (SE TE Comp) ‖ - Ind Visit TE Mech	Faculty Day Lecture	
46.	SPPU Hockey (B) ‖ FDP for Faculty	- Commencement of Teaching (ME I & II) / - Guest Lecture (TE Comp) / - Tech Aakriti	- PACE '18 / - Project & Seminar Review – ME Mech - II	GBM (Tentative)	Sunday	
47.	3rd Saturday	- SPPU Rowing (BG) / - Tech Aakriti	- PACE '18 / - Seminar Review–ME Mech I			
48.	Sunday	- Tech Aakriti	- PACE '18 / - 3rd Saturday	3rd Saturday		
49.	Commencement of Teaching (SE to BE)	Audit Course (SE, TE Comp) ‖ NSS – Blood Donation	- PACE '18 / - Sunday	Sunday		
50.		Audit Course (SE, TE Comp) ‖ Solution '18 & Amethyst '18				3rd Saturday Practical Exam (ME I & II) Theory Exam (FE to BE) End
51.		3rd Saturday Solution '18 & Amethyst '18		Work Shop – TE IT ‖ - NSS – Essay Writing Competition / - BE Project Final Demo (Comp & E&TC) / - Ind Visit – BE Mech		Sunday
52.	SPPU Shooting (BG)	- Sunday Solution '18 & Amethyst '18	- Project Demo (BE Comp) / - Project Demo (BE E&TC)		3rd Saturday	
53.					Sunday	
54.	- Alumni Meet / - SPPU Football (G)			ESCM	Practical / Oral / Project Exam (FE to BE) End	Theory Exam (ME I & II) Start
55.	Sunday	- Project Demo BE Comp / - Project Review BE E&TC	- AIT Foundation Day / - Workshop on Embedded Sys (TE Comp)	- UGCON Amethyst / - Faculty Day Lecture / - Open Source Activity (Comp)		
56.	Christmas		Sunday	Sunday		
57.		- ZEST'18 COEP Start / - NSS – Orphanage / Slum / Municipal School Visit / - Workshop for TE E&TC	Guest Lecture (Comp)	Selection of Clubs Secretaries ‖ - Guest Lecture TE, BE IT / - Guest Lecture (Comp) / - Unit Test II E&TC		Faculty Day Lecture
58.	- Interaction with ASGE	- IQAC Meeting / - Faculty Day Lecture / - Big Data W/S (TE Comp) / - Workshop for TE E&TC / - IETE Quiz	- Guest Lecture TE Mech	Selection of Clubs Secretaries ‖ - Unit Test II E&TC		Sunday
59.	- Commencement of Teaching (FE)	Sunday	In Sem Marks (Comp)	Ind Visit SE IT / - Unit Test II E&TC	Faculty Day Lecture	
60.		Guest Lecture (SE Comp)		- Unit Test II E&TC	Sunday	
61.	- Faculty Day Lecture / - SPPU Football (B) / - IETE Seminar	ZEST'18 COEP End ‖ Workshop SE IT		- Unit Test II E&TC		
62.	- Sunday / - Magazine - eMaze	Mid Sem Marks - Comp		- Mid Sem Marks - Comp		

(AA Bhat)
Brig (Retd)
Director