



# YEARLY STATUS REPORT - 2021-2022

## Part A

### Data of the Institution

#### 1. Name of the Institution

DEFENCE INSTITUTE OF ADVANCED TECHNOLOGY (DU)

• Name of the Head of the institution

DR. C. P. RAMANARAYANAN

• Designation

VICE CHANCELLOR

• Does the institution function from its own campus?

Yes

• Phone no./Alternate phone no.

02024604401

• Mobile no

7875593598

• Registered e-mail

vc@diat.ac.in

• Alternate e-mail address

iqac@diat.ac.in

• City/Town

PUNE

• State/UT

MAHARASHTRA

• Pin Code

411025

#### 2. Institutional status

• University

Deemed

• Type of Institution

Co-education

• Location	Rural
• Name of the IQAC Co-ordinator/Director	PROF. BALASURAMANIAN K
• Phone no./Alternate phone no	02024604414
• Mobile	7875593598
• IQAC e-mail address	iqac@diat.ac.in
• Alternate Email address	balask@diat.ac.in
3.Website address (Web link of the AQAR (Previous Academic Year)	<a href="https://www.diat.ac.in/about-iqac/">https://www.diat.ac.in/about-iqac/</a>
4.Whether Academic Calendar prepared during the year?	Yes
• if yes, whether it is uploaded in the Institutional website Web link:	<a href="https://www.diat.ac.in/admission/academic-calendar/">https://www.diat.ac.in/admission/academic-calendar/</a>

### 5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	B	2.86	2015	25/06/2015	24/06/2020
Cycle 2	A	3.21	2022	20/12/2022	19/12/2027

6.Date of Establishment of IQAC 01/01/2014

7.Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/ Department/Faculty	Scheme	Funding agency	Year of award with duration	Amount
Dr. Ganapati N Joshi	Grants-in-aid General	DST-SERB	2019, 36 MONTHS	Rs. 258267/-
Dr. Prashant S. Kulkarni and Dr. Ganapati N Joshi	Nil	ER & IPR, DRDO	2021, 36 MONTHS	Rs. 73903000/-

8.Whether composition of IQAC as per latest NAAC guidelines Yes

• Upload latest notification of formation of IQAC [View File](#)

9.No. of IQAC meetings held during the year	1
<ul style="list-style-type: none"> <li>The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website. (Please upload, minutes of meetings and action taken report)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>(Please upload, minutes of meetings and action taken report)</li> </ul>	<a href="#">View File</a>
10.Whether IQAC received funding from any of the funding agency to support its activities during the year?	No
<ul style="list-style-type: none"> <li>If yes, mention the amount</li> </ul>	

11.Significant contributions made by IQAC during the current year (maximum five bullets)
Syllabus revision
Creation of new schools in the institute
Promoting to open new M.Tech programme
Facilitate student to visit DRDO labs and Industry for carry out Master projects
The projects related to COVID19 products were promoted.

12.Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year

Plan of Action	Achievements/Outcomes
Initiated Academic audits of various M.Tech. programmes & Initiated NBA for M.Tech. programmes.	Academic audits were conducted & Department of Electronics and Communication Engineering got NBA accredited .
Requested Faculty members/ inventors for launching products, transferring technologies, etc.	Seven products were launched, Seven technologies were transferred and Two companies were incubated.
Participating in NIRF ranking	Scored 58th Rank in NIRF ranking.
Upgradation and development of Laboratories in DIAT & Procurement of equipment and software.	Laboratories in DIAT were upgraded & New equipment and software were procured.

Participation in CCMT.

Registered in CCMT for admissions of M.Tech. programmes.

13. Whether the AQAR was placed before statutory body?

Yes

- Name of the statutory body

Name	Date of meeting(s)
Academic Council meeting	15/02/2023

14. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to Assess the functioning?

Yes

15. Whether institutional data submitted to AISHE

Year	Date of Submission
2020-2021	11/04/2022

16. Multidisciplinary / interdisciplinary

Amidst the green beautiful Sahyadri Hills, overlooking the picturesque Khadakwasla lake, is situated the Defence Institute of Advanced Technology, (DIAT), which came into existence on 1st May 1952 as Institute of Armament Studies at the sprawling campus of the College of Military Engineering, Dapodi, Pune. In the year 1967, the Institute, renamed as the Institute of Armament Technology, was shifted to its present location at Girinagar, Pune. Since then the Institute under the aegis of Department of Defence Research and Development, Ministry of Defence, Government of India, grew in strength and stature, was recognized as Deemed to be University on 1st April 2006. Transforming the Defence/industry need, DIAT approach to curriculum integration which focuses primarily on the different disciplines and the diverse perspectives. DIAT is promoting Multidisciplinary / Interdisciplinary M.Tech and Research programmes, and the syllabus designed in such away, where different back ground instructors are involved in research and teaching. Also, students are encouraged for opting other department subjects as electives/audit in each semester. In addition, DIAT started different Schools, which involve different department to carry out teaching and research. Working with industry, DRDO laboratories, government and not-for profit organizations in India and internationally, for M. Tech projects DIAT challenge current thinking and offer new solutions to change our Defence need.

17. Academic bank of credits (ABC):

DIAT constituted a committee for reviewing and implementing ABC in academic programme.

### **18.Skill development:**

DIAT conducts different workshops for graduate students in advanced areas like 3D printing, AI, Robotics, cyber security, IPR, communication skills etc in addition to their course curriculum. All graduate students are encouraged to do summer project and master's project in various industries/DRDO laboratories.

### **19.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)**

DIAT encourages to use traditional knowledge in various research programs. DIAT faculty members patented and published using tradition ayurvedic/casting knowledge. For example: In recent COVID 19 pandemic, DIAT developed and commercialize biodegradable mask using Neem, turmeric etc. During COVID-19 students were encouraged to develop virus neutralizing room-freshener These products have essential Oils extracted from various herbal raw materials. Products were developed with the support from M/s. Khadi Industries, Solan Himachal Pradesh (HP). Also, DIAT conduct Yoga Classes/practical for all two times a year. DIAT encouraged/promotes students for celebrating cultural activities throughout year. Further students are also encouraged to enhance traditional knowledge available through SWAYAM. All the products developed during COVID-19 are the appropriate integration of Indian knowledge system.

### **20.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):**

DIAT adopted Outcome-Based Education (OBE) and it is a student-centric teaching and learning methodology in which the course delivery, assessment are planned to achieve stated objectives and outcomes. It focuses on measuring student performance i.e. outcomes at different levels. Some important aspects of the Outcome Based Education in DIAT

1. Course is defined as a theory, practical or theory cum practical subject studied in a semester. For E.g. Mathematics for Engineers, Systems Engineering
2. Course Outcome (CO) Course outcomes are statements that describe significant and essential learning that learners have achieved, and can reliably demonstrate at the end of a course. Generally three or more course outcomes may be specified for each course based on its weightage.
3. Programme is defined as the specialization or discipline of a Degree. It is the interconnected arrangement of courses, co-curricular and extracurricular activities to accomplish predetermined objectives leading to the awarding of a degree. For Example: M.Tech in Mechanical Engineering (specialization: Marine Engineering)
4. Programme Outcomes (POs) Program outcomes are narrower statements

that describe what students are expected to be able to do by the time of graduation. POs are expected to be aligned closely with Graduate Attributes. 5. Program Educational Objectives (PEOs) The Programme Educational objectives of a program are the statements that describe the expected achievements of graduates in their career, and also in particular, what the graduates are expected to perform and achieve during the first few years after graduation. 6. Programme Specific Outcomes (PSO) are what the students should be able to do at the time of graduation with reference to a specific discipline. Usually there are two to four PSOs for a programme.

## 21.Distance education/online education:

DIAT encourage students of all M.Tech programmes for opting online MOOC/NPTL course as elective / audit subject.

## Extended Profile

### 1.Programme

1.1 Number of programmes offered during the year:	20
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File Description	Documents
Data Template	<a href="#">View File</a>

1.2 Number of departments offering academic programmes	11
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### 2.Student

2.1 Number of students during the year	512
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File Description	Documents
Data Template	<a href="#">View File</a>

2.2 Number of outgoing / final year students during the year:	215
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File Description	Documents
Data Template	<a href="#">View File</a>

2.3 Number of students appeared in the University examination during the year	215
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File Description	Documents
Data Template	<a href="#">View File</a>

2.4	0
Number of revaluation applications during the year	

### 3.Academic

3.1	388
Number of courses in all Programmes during the year	

File Description	Documents
Data Template	<a href="#">View File</a>

3.2	57
Number of full time teachers during the year	

File Description	Documents
Data Template	<a href="#">View File</a>

3.3	70
Number of sanctioned posts during the year	

File Description	Documents
Data Template	<a href="#">View File</a>

### 4.Institution

4.1	297
Number of eligible applications received for admissions to all the Programmes during the year	

File Description	Documents
Data Template	<a href="#">View File</a>

4.2	448
Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	

File Description	Documents
Data Template	<a href="#">View File</a>

4.3	27
Total number of classrooms and seminar halls	

4.4	350
Total number of computers in the campus for academic purpose	
4.5	1709
Total expenditure excluding salary during the year (INR in lakhs)	

## Part B

### CURRICULAR ASPECTS

#### 1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes(PSOs) and Course Outcomes(COs) of the Programmes offered by the University

All the courses in any programme of study offered by Defence institute of Advanced Technology are developed having relevance to local national and global developmental needs. Every department of study which is offered by any programme has a board of studies (BOS) at least once a year. BOS Committee comprises of DRDO subject expert, Industry representative, subject expert from other academic institutes like IISc/ IIT/ NIT. After detailed deliberation of committee members it will be forwarded to PGC and subsequently Academic council. Every programme presents programme outcomes, Program specific outcome, and Course outcome of each course. In addition to this, each programme carries course objective that unfolds the learning outcome of that course.

DIAT(DU), being an autonomous Institute, which is supported by Ministry of Defence, the primary importance is given to defence related subjects for example, Armament and combat vehicles, Missile technology, Artificial Intelligence, Machine Learning, Robotics, Technology Management, etc. An extra care is taken by Institute to nurture the research and technology relevant to Defence and Space related applications along with the other common industrial needs. Though minor revision in syllabi is continuous practice the major revisions will be taken care based on the co-po attainment gap, this has come into practice from 2016 onwards for all the programme.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

11



File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

### 1.1.3 - Total number of courses having focus on employability/ entrepreneurship/ skill development offered by the University during the year

#### 1.1.3.1 - Number of courses having focus on employability/ entrepreneurship/ skill development during the year

120

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

### 1.2 - Academic Flexibility

#### 1.2.1 - Number of new courses introduced of the total number of courses across all programs offered during the year

120

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

#### 1.2.2 - Number of Programmes in which Choice Based Credit System (CBCS)/elective course system has been implemented during the year

20

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

### 1.3 - Curriculum Enrichment

#### 1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

1. Institute celebrates Birth Anniversary of Swami Vivekananda's Birth Anniversary and Bharat Ratna Dr. Babasaheb Ambedkar.

Heartfulness Meditation programme

Swachh Bharat Abhiyan to promote the values and ethics of Mahatma Gandhi

Sadbhavana Divas and Sadbhavana Pledge taking Ceremony

NSS Special Camp - 2 at Gram Panchayat, Donje Village, Haveli

Celebrated Hindi Divas and various competitions were organized

Swachh Bharat Abhiyan, Tree Plantation by Drivers, Single-use of Plastic Ban, Use of Paper Bags, Use of LED street lights, Wet and Dry Garbage segregation

Tree plantation programs are organized by NSS

The campus has been declared "plastic-free" zone

Tobacco smoking, chewing of pan-masalas and gutka is prohibited in the Institute campus. Health hazards caused by tobacco smoking are repeatedly highlighted especially by the NSS unit through different events

File Description	Documents
Upload relevant supporting document	No File Uploaded

### 1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

78

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

### 1.3.3 - Total number of students enrolled in the courses under 1.3.2 above

#### 1.3.3.1 - Number of students enrolled in value-added courses imparting transferable and life skills offered during the year

297

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

#### 1.3.4 - Number of students undertaking field projects / research projects / internships during the year

215

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

### 1.4 - Feedback System

1.4.1 - Structured feedback for design and review of syllabus - semester wise / is received from Students Teachers Employers Alumni

- All 4 of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

1.4.2 - Feedback processes of the institution may be classified as follows

- Feedback collected, analysed and action taken and feedback available on website

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

## TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Demand Ratio

2.1.1.1 - Number of seats available during the year

448

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

2.1.2 - Total number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per applicable reservation policy during the year (Excluding Supernumerary Seats)

2.1.2.1 - Number of actual students admitted from the reserved categories during the year

281

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

DIAT identify/assess students as slow learners and advanced learners based on their performance in regular tests, class interactions, and also in one to one interaction with students. We give importance on improving the performance of slow learners by conducting special classes on Engineering Mathematics and related topics like CFD, Modeling and Simulation.. Also, faculty spares time to sit with those students individually to cope up

with the subject. Through a mentor-mentee system all kinds of support are provided to the slow learners.

The continuous efforts taken by the faculty towards the slow learners has resulted in students' understanding in their chosen domain, improved results and pass percentage. All the programs have dedicated Course Coordinator /Mentors, who shall also audit the welfare of our students. The program coordinators also identify other skills, strengths and methods to encourage them to improve them which helps build self-confidence resulting in improvement in academic performance. All necessary emotional and professional counselling is provided and also provides extra attention to build additional skills which makes them employable. Students are also encouraged to register for MOOC, NPTEL courses.

File Description	Documents
Upload relevant supporting document	No File Uploaded
Link For Additional Information	Nil

### 2.2.2 - Student - Full time teacher ratio during the year

Number of Students	Number of Teachers
512	57

File Description	Documents
Upload relevant supporting document	No File Uploaded

### 2.3 - Teaching- Learning Process

2.3.1 - Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences

DIAT offers postgraduate programs in engineering and applied science streams. Considering the background of the students in each program, DIAT recognizes the need to prepare students as problem solvers as our highest priority, enabling them to address diverse future scientific challenges. DIAT curriculums are structured such that each concept starts with a problem description, and students put theory into practice by applying critical and collaborative problem-solving abilities to generate innovative solutions. Almost every program has been enhanced with problem-based, hands-on student-centric methodologies

DIAT offers students centric methodology include:

1. Experiential Learning:
  1. Project work

Field Projects in industry

1. Participation in competition at various level

2. Field Visits
3. Industrial Visits
4. Guest Lecture

1. Participated Learning (Team and Group work) :
2. Problem-solving Methodology:

- Case studies
- Research Activities

File Description	Documents
Upload relevant supporting document	No File Uploaded

### 2.3.2 - Teachers use ICT enabled tools including online resources for effective teaching and learning processes during the year

DIAT faculty regularly uses online education resources, social networking sites, blended learning platforms like google classroom, google meet, etc, to deliver lectures and provide an enhanced learning experience. YouTube, Emails, WhatsApp groups, Zoom, and Google classrooms are used as platforms to communicate, provide material and syllabus, make announcements, conduct tests, upload assignments, make presentations, address queries and share information. These ICT tools are effectively used during COVID19 lockdown and maintain academic calendar timelines. Teachers are trained in facilitating international academic interactions, meetings, conference by WEBX, MStTeams, ZOOM, Gmeet etc. Key ICT related facilities available at campus are listed below:

Data Centre

NPTEL & MOOC Courses

Journals and E-Books

File Description	Documents
Upload relevant supporting document	No File Uploaded

### 2.3.3 - Ratio of students to mentor for academic and other related issues during the year

#### 2.3.3.1 - Number of mentors

57

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 2.4 - Teacher Profile and Quality

#### 2.4.1 - Total Number of full time teachers against sanctioned posts during the year

57

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

#### 2.4.2 - Total Number of full time teachers with Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D’Lit. during the year

48

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

#### 2.4.3 - Total teaching experience of full time teachers in the same institution during the year

##### 2.4.3.1 - Total experience of full-time teachers

474

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

#### 2.4.4 - Total number of full time teachers who received awards, recognition, fellowships at State, National, International level from Government/Govt. recognised bodies during the year

39

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

#### 2.5 - Evaluation Process and Reforms

##### 2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year

11

##### 2.5.1.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results year wise during the year

11

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

##### 2.5.2 - Total number of student complaints/grievances about evaluation against total number appeared in the examinations during the year

File Description	Documents
Upload relevant supporting document	No File Uploaded

2.5.3 - IT integration and reforms in the examination procedures and processes (continuous internal assessment and end-semester assessment) have brought in considerable improvement in examination management system of the institution

IT integration and reforms in the examination procedures and processes have brought considerable improvement in examination management system of the institution. ERP system is partially implemented in the office of CoE and some of the functions are become easy for operation such as student registration and result processing etc.

The Institute is following a continuous evaluation system. A typical theory course will have three assessment tests carrying 10% marks each to be conducted at an appropriate interval; one or two quizzes/ assignments carrying 20% marks and an end semester examination carrying 50% marks. Marks against each component to be entered by the Instructor or Faculty in the ERP System.

File Description	Documents
Upload relevant supporting document	No File Uploaded

2.5.4 - Status of automation of Examination division along with approved Examination Manual

A. 100% automation of entire division & implementation of Examination Management System (EMS)

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

2.6 - Student Performance and Learning Outcomes

2.6.1 - The institution has stated learning outcomes (generic and programme specific)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents

All the programs of DIAT have a well-defined program specific outcomes, program outcome, and course outcomes. The curriculum for each program is designed to meet the specified outcomes. Course Outcomes for courses in the curriculum are defined by the course coordinators and faculty offering the course by taking every care to organize the course's professional orientation. For each course the respective program, Course Outcomes (CO) are plotted and mapped to Program Outcomes (PO) and Program Specific Outcomes (PSO) using the program formulation.

At the beginning of each semester, the course coordinator and

instructor discuss the COs with all the students enrolled in that course. This comprehensive discussion covers the COs and how that is translated into the: Course plan / Lesson plan, Pedagogy, Evaluation components, and Evaluation scheme. This ensures that all students understand the linkage between the evaluation and the course outcomes.

File Description	Documents
Upload relevant supporting document	No File Uploaded

### 2.6.2 - Attainment of Programme outcomes, Programme specific outcomes and course outcomes are evaluated by the institution during the year

DIAT has adopted outcome-based education for all PG programs to ensure the attainment of course outcomes and program outcomes. The objective and outcomes are properly mapped for evaluation of students so that PSO's are attained. The DIAT adopts both direct and indirect assessment methods to ensure PO's and CO's attainments.

#### 1. Direct Assessment methods

- Internal Assessment Test
- Laboratory Work Performace
- Mini projects
- Assignments
- End term Theory Result The score of this assessment is considered for evaluation CO's.

#### 1. Indirect Assessment Methods

- Feedbacks
- Co-curricular activities
- Extracurricular activities

Academic Section takes care of online feedback at the end of each semester. The feedback mechanism is used to improve the teaching-learning process in outcome-based education.

The Number of students who completed M.Tech and Ph.D during the period of assessment is evidence of the attainment of the program outcomes. At the MTech level, program outcomes are measured through students' progress to higher studies in India or abroad. Another measurement of attainment is students' placement in companies and institutions.

File Description	Documents
Upload relevant supporting document	No File Uploaded

### 2.6.3 - Number of students passed during the year



### 2.6.3.1 - Total number of final year students who passed the university examination during the year

202

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

## 2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a web link)

[https://assessmentonline.naac.gov.in/public/index.php/hei/revers\\_student\\_upload](https://assessmentonline.naac.gov.in/public/index.php/hei/revers_student_upload)

## RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 - Promotion of Research and Facilities

3.1.1 - The institution Research facilities are frequently updated and there is well defined policy for promotion of research which is uploaded on the institutional website and implemented

DIAT encourages young faculty members to undertake research projects and also funds them for Defence based research activities like Game theory, Effluent etc. Also allows participating in collaborative research projects with DRDO scientist. The faculty is encouraged to seek research funding from the govt and private agencies. The industry also is approached time to time for undertaking consultancy as well as the customized courses. The same is also organized for the public sector undertaking.

Equipments Induction Programme was implemented- DIAT went through up gradation of laboratories. The plan was in phased manner with latest State - of - the Art equipments on-par with IIT, IISc & International Universities.

DIAT upgraded its propulsion complex with laboratories to test air, solid & liquid propulsions.

Documents: Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy and its adoption.

File Description	Documents
Upload relevant supporting document	No File Uploaded

3.1.2 - The institution provides seed money to its teachers for research (amount INR in Lakhs)

37.

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

### 3.1.3 - Number of teachers receiving national/ international fellowship/financial support by various agencies for advanced studies/ research during the year

2

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

### 3.1.4 - Number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other research fellows enrolled in the institution during the year

43

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

3.1.5 - Institution has the following facilities to support research  
 Central Instrumentation Centre  
 Animal House/Green House  
 Museum Media laboratory/Studios  
 Business Lab  
 Research/Statistical Databases  
 Moot court  
 Theatre  
 Art Gallery

A. Any 4 or more of the above

File Description	Documents
Upload relevant supporting document	No File Uploaded

### 3.1.6 - Number of departments with UGC-SAP, CAS, DST-FIST, DBT, ICSSR and other recognitions by national and international agencies during the year

8

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

## 3.2 - Resource Mobilization for Research

3.2.1 - Extramural funding for Research (Grants sponsored by the non-government sources such as industry, corporate houses, international bodies for research projects) endowments, Chairs in the University during the year (INR in Lakhs)

2658.54

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

### 3.2.2 - Grants for research projects sponsored by the government agencies during the year (INR in Lakhs)

2638.24

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

### 3.2.3 - Number of research projects per teacher funded by government and non-government agencies during the year

53

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

## 3.3 - Innovation Ecosystem

### 3.3.1 - Institution has created an eco-system for innovations including Incubation centre and other initiatives for creation and transfer of knowledge

Institute is proud to start an incubation center to enable its students get firsthand experience in promote innovation driven activities at the institute and provide a comprehensive and integrated range of support including space, mentoring, training programs, networking and an array of other benefits.

The institute provides conducive environment for research-and-technology-driven innovations. The five key constituents of the ecosystem for innovations are :

vTechnology

vResearch

vInnovation

vIndustry

Each one of the above acts as a feeder to the next and creates a ripple effect on building innovative products

Activities Envisaged

1. To provide common facilities to incubate viz. office support, equipment support and technology support.

2. To give Training, counsel, guide and mentor for setting up of the enterprise

3. To support and promote rural entrepreneurship in the region through training, demonstration and dissemination of technologies and opportunities to the grass root people.

4. To assist for setting up of technology exhibition, awareness camps and product development plans.

5. To provide support in documentation, publication and patenting of innovations.

6. To facilitate and provide the tools for technology development and implementation in the labs.

File Description	Documents
Upload relevant supporting document	No File Uploaded

**3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year**

30

**3.3.2.1 - Total number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development year wise during the year**

30

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

**3.3.3 - Number of awards / recognitions received for research/innovations by the institution/teachers/research scholars/students during the year**

**3.3.3.1 - Total number of awards / recognitions received for research/innovations won by institution/teachers/research scholars/students year wise during the year**

14

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

**3.4 - Research Publications and Awards**

**3.4.1 - The institution ensures implementation of its stated Code of Ethics for research**

**3.4.1.1 - The institution has a stated Code of Ethics for research and the implementation of which is ensured through the following**

1. Inclusion of research ethics in the research methodology course work
2. Presence of institutional Ethics committees (Animal, chemical, bio-ethics etc)
3. Plagiarism check
4. Research Advisory Committee

**A. All of the above**

File Description	Documents
Upload relevant supporting document	No File Uploaded

**3.4.2 - The institution provides incentives to teachers who receive state, national and international recognitions/awards Commendation and monetary incentive at a University function Commendation and medal at a University function Certificate of honor Announcement in the Newsletter / website**

**B. Any 3 of the above**

File Description	Documents
Upload the data template	No File Uploaded
Upload relevant supporting document	No File Uploaded

**3.4.3 - Number of Patents published/awarded during the year**

**3.4.3.1 - Total number of Patents published/awarded year wise during the year**

**21**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

**3.4.4 - Number of Ph.D's awarded per teacher during the year**

**3.4.4.1 - How many Ph.D's are awarded during the year**

**14**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

### 3.4.5 - Number of research papers per teacher in the Journals notified on UGC website during the year

260

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

### 3.4.6 - Number of books and chapters in edited volumes published per teacher during the year

#### 3.4.6.1 - Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings during the year

25

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

3.4.7 - E-content is developed by teachers For e-PG-Pathshala For CEC (Under Graduate) For SWAYAM For other MOOCs platform For NPTEL/NMEICT/any other Government Initiatives For Institutional LMS

B. Any 4 of the above

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

### 3.4.8 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

Scopus	Web of Science
1058	874

File Description	Documents
Any additional information	<a href="#">View File</a>
Bibliometrics of the publications during the year	No File Uploaded

### 3.4.9 - Bibliometrics of the publications during the year based on Scopus/ Web of Science - h-Index of the University

Scopus	Web of Science
39	36

File Description	Documents
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Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	No File Uploaded
Any additional information	No File Uploaded

### 3.5 - Consultancy

3.5.1 - Institution has a policy on consultancy including revenue sharing between the institution and the individual and encourages its faculty to undertake consultancy

Consultancy policy attached

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

3.5.2 - Revenue generated from consultancy and corporate training during the year (INR in Lakhs)

3.5.2.1 - Total amount generated from consultancy and corporate training during the year (INR in lakhs)

1761.55

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

### 3.6 - Extension Activities

3.6.1 - Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the year

During the year 2015-16 Blood donation Camp organized by Ammucare, Pune ,Swachhta Drive organized by the DIAT Swachha Bharat Mission Committee, almost 168 students participated in the programmes.

In the year 2016-17,Plantation of Saplings Programmeorganised by DIAT(DU) NSS centre , it was attended by 130 students.

In the year 2017-18 NSS SpecialCampat GohreBudruk Village, Haveli Taluka, Pune District from 19thto 23rd March 2018., NSS health check-up camp on 22nd March 2018 and attended by 100 students.

During the year 2018-19, As a part of social services activity, Dept of Materials Engg., DIAT organized a cleanliness awareness drive and Plantation of saplings under Swacha Bharat Abhiyan in Mahabaleshwar, Satara on 25th Oct 2018., Week Long 'Swachhta Drive' at DIAT Campus, organized by DIAT Swachha Bharat Mission Committee & Ministry of Youth Affairs, Blood donation camp was organized at Donage Village, Haveli, Pune on 27th Mar 2019 organised by DIAT and Red Cross India, more than 100 students attended the programmes.

During the year 2019-20, Swachhata Pakhwada-2020 was organized and the entire DIAT campus, technical as well as Residential, Hostel, etc was cleaned in a span of a week.

File Description	Documents
Upload relevant supporting document	No File Uploaded

**3.6.2 - Number of awards received by the Institution, its teachers and students from Government /Government recognised bodies in recognition of the extension activities carried out during the year**

**3.6.2.1 - Total number of awards and recognition received for extension activities from Government / Government recognised bodies during the year**

14

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

**3.6.3 - Number of extension and outreach programs conducted by the institution including those through NSS/NCC/Red cross/YRC during the year(including Government initiated programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. and those organised in collaboration with industry, community and NGOs)**

6

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

**3.6.4 - Total number of students participating in extension activities listed at 3.6.3 above during the year**

610

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

**3.7 - Collaboration**

**3.7.1 - Number of collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students during the year**

**3.7.1.1 - Total number of Collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students during the year**

22



File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

**3.7.2 - Number of functional MoUs with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the year**

32

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

## **INFRASTRUCTURE AND LEARNING RESOURCES**

### **4.1 - Physical Facilities**

4.1.1 - The institution has adequate facilities for teaching - learning. viz., classrooms, laboratories, computing equipment, etc.

The DIAT is located Girinager spread over 496 acres. It is a premier autonomous institute under the Ministry of Defence, engaged in imparting technical education, in niche areas at PG, MS by Research & Ph.D levels over the last 68 years, in its various forms & capacities

DIAT has well equipped with all adequate infrastructure and physical facilities for teaching and learning as specified by the statutory bodies viz., modern laboratories with state-of-art equipment, Smart classrooms, Computing Facility with simulation / analysis software etc.

Classrooms /Seminar Hall / Conference Hall

Laboratories

Computing Facilities

Data Centre

Campus wide Network

DIAT Wi-Fi Network

NKN Facility

Virtual Class Room

DIAT Mail Server

DRONA facility

File Description	Documents
Upload relevant supporting document	No File Uploaded

4.1.2 - The institution has adequate facilities for cultural activities, yoga, games (indoor, outdoor) and sports. (gymnasium, yoga centre, auditorium, etc.)

The Institute is committed to create a balanced atmosphere of academic, cultural and sports activities to groom students to have a holistic personality. DIAT provides a serene environment and a salubrious climate to pursue academic endeavors as well as undertake various indoor and outdoor sports activities in order to be mentally and physically fit.

DIAT is well equipped with adequate sports & cultural facilities for students to showcase their talent, skills, etc. Various sports and cultural competitions are organized regularly by the institute to develop a spirit of sportsmanship among students and encourages the students to participate in inter and intra department, university level sports and cultural events such as SPANDAN, KRIYA, PRAYAG, IMPULSE etc. Winning students are honored with medals, trophies and certificates.

DIAT has multipurpose auditoriums with ICT facilities for hosting seminars/conferences/workshops and various literary and cultural activities. It also has sports ground, Gymnasium, Multipurpose halls, NSS center etc.

**SPORTS FACILITY**

The following indoor/outdoor sports facilities are available at DIAT

- Sports ground
- Badminton court
- Basketball court
- Cricket ground
- Football ground
- Volley Ball ground
- Lawn Tennis Court
- Basketball court
- Table Tennis
- Chess
- Carom

File Description	Documents
Upload relevant supporting document	No File Uploaded

#### 4.1.3 - Availability of general campus facilities and overall ambience

Ensnconced in the Sahyadri hills, adjacent to the famous Sinhagad Fort and embanking the vast Khadakwasla Lake, the campus of DIAT, spread over 496 acres, provides a serene environment and a salubrious climate to it pursue academic endeavors as well as healthy resort to live life to its fullest. At DIAT one gets to enjoy unpolluted clean air and rejuvenating atmosphere of hilly township.

DIAT is a fully residential institute which is self-contained with modern amenities. The Institute has a wide range of indoor and outdoor recreational facilities, an open-air theatre, Canteen. Community center, KV Vidyalaya, Medical, shopping, banking and postal facilities are also available within the campus.

DIAT is also not very far from the main city area of Pune, the cultural capital of Maharashtra. Pune is the home for many a software & hardware companies and also happens to be a hub of DRDO labs. All in all, it is a perfect locale for an institute of its kind.

Some of the major general facilities that are available at institute and support in providing a good ambience for a pleasant learning experience at DIAT

File Description	Documents
Upload relevant supporting document	No File Uploaded

#### 4.1.4 - Total expenditure excluding salary for infrastructure augmentation during the year (INR in Lakhs)

741

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

#### 4.2 - Library as a Learning Resource

##### 4.2.1 - Library is automated using Integrated Library Management System (ILMS) and has digitisation facility

Library services have been fully automated with the latest version of LIBSYS 10. LIBSYS is a user-friendly interface, multi-user and web-based library management system to enhance the total library experience through value-added features and services. The software facilitates the library in providing quick & efficient

services. It covers all modules; Acquisition, Cataloguing, Circulation, Serials, enriched web OPAC, etc., The bibliographic database of library resources available is being updated regularly with details of recently acquired Books / Journals/ other resources. The Web OPAC (Online Public Access Catalogue) of the library provides an online facility through the LAN to the users to search the bibliographic databases of entire library resources from any networked computer/laptop within the DIAT campus.

The Library implemented the latest RFID technology. It is integrated with LIBSYS- library management system software that facilitates the library in providing quick & efficient services. RFID helps to secure library materials mobilize the circulation process and enhance user service and reduce theft cases. RFID improved library workflow by reducing non-value-added work processes and allows better accuracy in book collection management.

File Description	Documents
Upload relevant supporting document	No File Uploaded

**4.2.2 - Institution has subscription for e-Library resources Library has regular subscription for the following: e - journals e-books e-ShodhSindhu Shodhganga Databases**

A. Any 4 or all of the above

File Description	Documents
Upload relevant supporting document	No File Uploaded

**4.2.3 - Annual expenditure for purchase of books/ e-books and subscription to journals/e-journals during the year (INR in Lakhs)**

218

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

**4.2.4 - Number of usage of library by teachers and students per day (foot falls and login data for online access)**

35

File Description	Documents
Upload relevant supporting document	No File Uploaded

**4.3 - IT Infrastructure**

**4.3.1 - Number of classrooms and seminar halls with ICT - enabled facilities such as LCD, smart board, Wi-Fi/LAN, audio video recording facilities during the year**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

#### 4.3.2 - Institution has an IT policy, makes appropriate budgetary provision and updates its IT facilities including Wi-Fi facility

DIAT has implemented IT policy for Network Services, Internet & Email access and it is strictly applicable to all users including Student, Faculty, Guest

and Staff etc. Budgetary provision made for IT services is approximately about Rs. 28 Lakhs (Includes Internet & Email Services) Ref Invoice attached.

Electronic resources such as e-journals, e-books, databases, etc. made available by the Central Library, DIAT are for academic use. These resources can be searched, browsed, and material may be downloaded and printed as single copies of articles as is done in the case of printed library material. Downloading or printing of a complete book or an entire issue or a volume of one or more journals (called systematic downloading) is strictly prohibited. Use of robots, spiders or intelligent agents to access, search and/or systematically download from the e-resources is also prohibited. Any violation of this policy will result in penal action as per the rules and regulations of the Institute. I am aware that Systematic downloading will result in the publisher blocking the entire community of users at DIAT from accessing these resources.

File Description	Documents
Upload relevant supporting document	No File Uploaded

#### 4.3.3 - Student - Computer ratio during the year

Number of students	Number of Computers available to students for academic purposes
512	350

#### 4.3.4 - Available bandwidth of internet connection in the Institution (Leased line)

- $\geq 1$  GBPS

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 4.3.5 - Institution has the following Facilities for e-content development Media centre Audio visual centre Lecture

- A. All of the above

File Description	Documents
Upload relevant supporting document	No File Uploaded
Upload the data template	No File Uploaded

#### 4.4 - Maintenance of Campus Infrastructure

##### 4.4.1 - Total expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the year

193

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

DIAT has in place established systems for the maintenance and utilization of physical, academic and support facilities such as laboratory, computer, sports complex classroom etc.

##### Maintenance of Library Facilities:

The books and journals are maintained against disfiguring. Book binding is carried out on regular basis for damaged books to avoid further damage. Stock verification is done as a part of regular monitoring and control.

Computers: The Institute has an adequate number of computers with internet connections and utility software. Computer systems, UPS, Software and Servers are maintained through AMC/periodic maintenance.

Classrooms, Conference Hall: Classrooms and Conference hall are provided with enough seating capacity and LCD projectors.

Laboratory: Laboratories are regularly maintained by the Laboratory Assistants. Records of equipment are maintained in Central Inventory records as well as in respective Departments.

##### Administration Section & MMG:

The maintenance of the entire physical infrastructure including new construction, classrooms and laboratories, is done through Estate and Works office under the supervision of GE, AGE, JEs of Military Engineering Services (MES) unit.

DIAT has a Material and Management Group (MMG). It mandates central purchase and procurement system as per General Financial Rules, 2017.

File Description	Documents
Upload relevant supporting document	No File Uploaded

## STUDENT SUPPORT AND PROGRESSION

### 5.1 - Student Support

5.1.1 - Total number of students benefited by scholarships and free ships provided by the institution, Government and non-government agencies (NGOs) during the year (other than the students receiving scholarships under the government schemes for reserved categories)

290

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

5.1.2 - Total number of students benefited by career counselling and guidance for competitive examinations offered by the Institution during the year

0

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

5.1.3 - Following Capacity development and skills enhancement initiatives are taken by the institution  
 Soft skills  
 Language and communication skills  
 Life skills (Yoga, physical fitness, health and hygiene)  
 Awareness of trends in technology

A. All of the above

File Description	Documents
Upload the data template	No File Uploaded
Upload relevant supporting document	No File Uploaded

5.1.4 - The Institution adopts the following for redressal of student grievances including sexual harassment and ragging cases  
 Implementation of guidelines of statutory/regulatory bodies  
 Organisation wide awareness and undertakings on policies with zero tolerance  
 Mechanisms for submission of

• All of the above

online/offline students' grievances  
Timely redressal of the grievances  
through appropriate committees

File Description	Documents
Upload relevant supporting document	No File Uploaded

## 5.2 - Student Progression

5.2.1 - Number of students qualifying in state/ national/ international level examinations during the year (eg:NET/SLET/GATE/GMAT/CAT/ GRE/TOEFL/Civil Services/State government examinations)

5.2.1.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

247

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

5.2.2 - Total number of placement of outgoing students during the year

88

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

5.2.3 - Number of recently graduated students who have progressed to higher education (previous graduating batch) during the year

22

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

## 5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter -university/state/national/international events (award for a team event should be counted as one) during the year

21

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded



### 5.3.2 - Presence of Student Council and its activities for institutional development and student welfare

Student's council provides an opportunity to students to develop their leadership skills through active participation in university administration and students collaboration. The student council is expected to perform following functions:

1. Organizing cultural activities and sports activities for students.
2. Communicating problems faced by students to Dean and management of Institute.
3. Maintaining discipline in University campus.
4. Maintaining college campus clean and green.
5. Participation in extension activities such as, Swachh Bharat Abhiyan, Tree Plantation, Yoga Day, Blood Donation, NSS camps etc.
6. They give their suggestions for purchase of books, magazines for library through respective HoDs
7. Representant in Hotesl Management Committee for smooth functioning of Hostel activates.
8. Involve in Institute innovation Cell
9. Represent in new curriculum development / updating

The following committees have student representatives:

1. Anti-Ragging Committee
2. Sports & culture Committee
3. IQAC
4. Alumni Association
5. Anti-Sexual Harassement Cell.
6. Hostel Commette
7. Annual Magazine Committee

File Description	Documents
Upload relevant supporting document	No File Uploaded

### 5.3.3 - Number of sports and cultural events / competitions organised by the institution during the year

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

## 5.4 - Alumni Engagement

5.4.1 - The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and other support services during the year

Defence Institute of Advanced Technology (DU) Alumni Association (DIATAA) was registered by the Assistant Registrar of Societies, Pune, Maharashtra, under Societies Registration Act 1860 and Bombay Public Trust Act, 1950 of Maharashtra, on 5th December 2014. The DIATAA registration number is 2022/2014. The objective of the DIATAA is to provide a forum for the Alumni of the Institute; To engage in such academic and social activities as shall contribute towards promoting liaison between the Alumni and the Institute.; To further the cause of Science and technology and keep alive love, spirit, affection, and gratitude for our alma mater. The Total registered Alumni as of 31st December 2021 is 1430, and the contribution is Rs.13,67,000.

File Description	Documents
Upload relevant supporting document	No File Uploaded

5.4.2 - Alumni contribution during the year (INR in Lakhs)

A.  $\geq$  5Lakhs

File Description	Documents
Upload relevant supporting document	No File Uploaded

## GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 - Institutional Vision and Leadership

6.1.1 - The institution has a clearly stated vision and mission which are reflected in its academic and administrative governance

#### Vision:

To be a center of Excellence of international repute for Education, Training and research in Advanced Technologies with a view to strengthen national security and self-reliance.

#### Mission:

To evolve as an Innovative Unique Research University to develop indigenous contemporary Defence related technologies in Navigation Systems, Wireless Sensors, Efficient Propulsion Systems, Weapon Systems for DRDO and Defence Services, provide

technological solutions to the Services to optimise combat battlefield effectiveness and above all produce qualified quality manpower which can truly become an instrument for building a strong indigenous technology base in the context of creating a performing Defence Industrial Base in India.

**Quality Policy:**

Defence Institute of Advanced Technology (DIAT) is committed to creating a center of Excellence for Education, Training and research in contemporary and futuristic Technologies by way of continual improvement and consistent Innovation in material as well as Intellectual Infrastructure towards customer's delight.

File Description	Documents
Upload relevant supporting document	No File Uploaded

**6.1.2 - The effective leadership is reflected in various institutional practices such as decentralization and participative management**

DIAT has a mechanism for delegating authority and providing operational autonomy to all functionaries to work towards a decentralized governance system. Various levels Committees exist - General Body of DIAT Society, Governing Council, BoM, PMB, Academic Council, Finance Committee Leadership is involved in 1) ensuring organizational management system development, implementation and continuous improvement; Interacting stakeholders effectively; Reinforcing a center of excellence and Identifying organizational needs and striving to fulfill them.

**Decentralization:**

**Management Level:** The General Body of DIAT Society and Governing Council delegates all the academic and operational decisions based on policy to the BoM, Academic Council, 3) PMB and Finance Committee headed by the Vice Chancellor in order to fulfil the vision and mission of the institute.

**Operational&Functional level**

All statutory bodies like BoM, PMB, AC, headed by the Vice Chancellor, monitor the start of new courses/programs, procurements of equipments, research facilities, infrastructure development, collaboration to other research institutes and student/faculty/staff welfare activities. VC interacts with DRDO, Tri-Service and other government and external agencies. faculty and staff join hands with the VC for the execution of different academic, administrative, extension related, co-and extracurricular activities. Asst Professor have been working as in-charges of various committees of university level.

File Description	Documents
Upload relevant supporting document	No File Uploaded

## 6.2 - Strategy Development and Deployment

### 6.2.1 - The institutional Strategic plan is effectively deployed

DIAT prepares strategic plan taking into consideration the vision, mission and objectives of the institute. Though there is a perspective plan of long term, annual action plan and budgets are prepared to implement these plans effectively at department level and university level.

Prepared plans are deliberated at Deans/HoD level and then put up for the approval of Vice Chancellor/ AC/ BOM. Then executed at different levels effectively with help of able faculty and staff members. While preparing these strategic plans many elements are considered such as Academic Administration, Teaching & Learning process, Curriculum development, Examination & evaluation, Research and innovation, Infrastructure/Facilities, Human Resource Management, Financial & revenue generation, Industry Interaction/Collaboration/ Placement, entrepreneurship & Innovation, Student support activities etc.

Faculty members are encouraging to undertake research projects from the govt. and other funding agencies. Institute also funds young faculty members to undertake research. The faculty undertake consultancy and conducts customized courses. Further, to support national education policy for development of skilled manpower, multi-disciplinary research and product development is encouraged by formation of highly interdisciplinary schools in AICTE declared thrust areas i.e. school of Robotics, School of Quantum Computing, School of Data Science.

File Description	Documents
Upload relevant supporting document	No File Uploaded

### 6.2.2 - The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.

Various committees exist in DIAT like General Body of DIAT Society chaired by Hon'ble Raksha Mantri, Governing Council chaired by Secretary, Dept. of Defence R&D, Board of Management (BoM), Planning and Monitoring Board (PMB), Academic Council, Finance Committee headed by Vice Chancellor in order to frame the institutional policies.

The General Body of DIAT Society and Governing Council delegates all the academic and operational decisions based on policy to the 1) Board of Management (BoM), 2) Academic Council, 3) Planning and Monitoring Board (PMB) and 4) Finance Committee headed by the Vice Chancellor in order to fulfil the vision and mission of the

institute. Academic Council formulates common working procedures, policies and entrust the implementation with the faculty members.

Decision making is decentralized at different levels too: the level of Departmental Heads, Deans, Director of centers, the Controller of Examinations, Finance Officer, Librarian, the Registrar and the Vice Chancellor.

Regularly meetings are held at all these levels to ensure a seamless and hierarchical process. Further, faculty/HOD/staff meetings are held every month, meetings of Heads of Departments are held every other month, Boards of Studies meet as required, review meetings are held after every major event.

File Description	Documents
Upload relevant supporting document	No File Uploaded

### 6.2.3 - Institution Implements e-governance in its areas of operations

6.2.3.1 - e-governance is implemented covering following areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

A. All of the above

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

### 6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has a performance appraisal system, promotional avenues and effective welfare measures for teaching and non-teaching staff

An effective performance appraisal system plays a crucial role in managing the organisation in an efficient manner. The institution has an effective Performance Appraisal System for teaching and non-teaching staff and follow the scheme suggested by UGC/DIAT statute viz. Performance Based Appraisal System (PBAS)-CAS,

The university shall send a general circular twice a year, inviting applications for the CAS promotions from the eligible candidates.

**Non-Teaching Staff** All non-teaching staff are also assessed through annual confidential reports and annual performance appraisal. The various parameters for staff members are assessed under different categories.

**Infrastructure**

Increments/Incentives

Leave

Human Resource management

Financial support

Health

Other welfare schemes for Teaching and Non-Teaching

- DIAT employee's society give bonus every year and also offers loans to teaching & non-teaching staff.
- CSD canteen facility
- Allotment of Govt residential accommodations at campus with amenities such as Sports, Gym & Recreation facilities etc.
- Admission to KV School to employee's wards

File Description	Documents
Upload relevant supporting document	No File Uploaded

**6.3.2 - Total number of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year**

6

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

**6.3.3 - Number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the year**

11

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

**6.3.4 - Total number of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the year(Professional Development Programmes, Orientation / Induction Programmes Refresher Course, Short Term Course)**

18

File Description	Documents
Upload the data template	<a href="#">View File</a>

## 6.4 - Financial Management and Resource Mobilization

### 6.4.1 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

#### Objectives:

- Ensures DIAT faculty/student/staff/institute growth and development in a planned and phased manner
- Takes into account sustainability as a major concern at every level
- Tailors every plan to suit the vision and objectives of the university
- Factors in sourcing and availability of funds and listing of priorities
- Provide for periodic strategic planning for mobilization, allocation and utilization of resources

#### Strategies:

- the university should be financially viable from inception
- develop infrastructure through fundraising (DRDO, MoD, government agencies, foundations, individuals, manage maintenance and operational costs through fees etc)

#### Management of Finance

- Finance department is headed by finance officer at a senior level, and supported by an assistant registrar, and internal audit officer (IAO).
- All bills are pre-checked, pre-audited, by IAO before payment.
- Past orders are also counter-signed by FO where bill value exceeds Rs 15000/-
- Double signatory system is followed for cheque signing.
- All purchase required competent authority approval. There is SPC/TPC/CNC meetings. Open tender/Government -e -marketing followed. DRDO purchase manuals followed.
- Bank accounts are operated in name of DIAT(DU).
- Separate bank accounts held for operation of project grants/funds.
- Surprise cash checks.

File Description

Documents

Upload relevant supporting document

No File Uploaded

#### 6.4.2 - Funds / Grants received from government bodies during the year for development and maintenance of infrastructure (not covered under Criteria III and V) (INR in Lakhs)

4500

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

#### 6.4.3 - Funds / Grants received from non-government bodies, individuals, philanthropists during the year for development and maintenance of infrastructure (not covered under Criteria III and V)(INR in Lakhs)

0

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

#### 6.4.4 - Institution conducts internal and external financial audits regularly

Institution conducts internal and external financial audits regularly

- Institution conducts Internal and Statutory audits regularly through a firm of Chartered Accountants appointed by the Institute. A firm of Chartered Accountant is selected from the panel approved by Comptroller and Auditor General of India (C&AG). Internal Audit is conducted every quarter whereas statutory audit is conducted after the end of the financial year.
- In addition to this, Institute being wholly funded by DRDO, Ministry of Defence. Hence, C&AG audit is also conducted for the financial year.
- Audited financial statements and Audit report is approved by Finance Committee, Board of Management, Governing Council and General Body. These reports are also placed before the house of Parliament for its final adoption.

Institution conducts Internal and Statutory audits regularly through a firm of Chartered Accountants appointed by the Institute. A firm of Chartered Accountant is selected from the panel approved by Comptroller and Auditor

General of India (C&AG). Internal Audit is conducted every quarter whereas statutory audit is conducted after the end of the financial year.

In addition to this, Institute being wholly funded by Dept. of Defence R&D, Ministry of Defence. Hence, C&AG audit is also



conducted for the financial year.

File Description	Documents
Upload relevant supporting document	No File Uploaded

## 6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes by constantly reviewing the teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals

The departmental reviews, in terms of academic and administrative structures, curriculum, infrastructure and facilities etc., are done periodically at various committee meetings, which consists of eminent academicians and scientists. The programme structures, relevance of various programmes / courses, the pedagogy methods, level of practical hands on exposure, quality of faculty, student teacher ratios, infrastructure resources, assessment of graduate and Ph. D programmes, quality of research outputs like publications, patents, etc. Internally, within the departments, appropriate decisions are taken on academic matters like programmes and courses as well as directions of research, thrust areas, etc. through committees such as BoS, and the DRMC etc.

DIAT regularly undertakes upgradation of course curriculum and start of new programs to fulfil the needs of the all stakeholders and deference industry at large by conducting BOS at regular intervals involving experts from DRDO, Tri Services, Academics, and Industries. Teaching learning process has an extensive use of demonstration / practical session along with regular class room teaching as a part of the curriculum.

File Description	Documents
Upload relevant supporting document	No File Uploaded

6.5.2 - Institution has adopted the following for Quality assurance Academic Administrative Audit (AAA) and follow up action taken Confernces, Seminars, Workshops on quality conducted Collaborative quality initiatives with other institution(s) Orientation programme on quality issues for teachers and studens Participation in NIRF Any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

A. Any 5 or all of the above

File Description	Documents
Upload the data template	<a href="#">View File</a>

6.5.3 - Incremental improvements made for the preceding during the year with regard to quality (in case of first cycle) Post accreditation quality initiatives(second and subsequent cycles)

#### 1. Academic and Administrative Audit of the Institute.

UGC and AICTE expert committee reviewed the functioning of DIAT from 23rd to 24th 2018 [ as per UGC [Deemed to be University] Regulations 2016, there shall be a mandatory intensive external review of every deemed to be university once in every five years based on the criteria prescribed by the Commission.]

Peer Review of DIAT by the DRDO was done as per the guidelines laid down under Rule 208 of GFR (General Financial Rules) – 2005. Review by the committee held on 17th March 2017.

1. Five PG (M Tech) Programs of DIAT got NBA accreditation
2. Participated NIRF Ranking (from 2016 -2021)
3. Regular revision of Syllabus undertaken to include various specializations, based on the outcome of feedback from stack holders to support the defence & industry requirements
4. Establishment of new schools and new M Tech programs in futuristic technologies such as Quantum tech., Artificial Intelligence, Data Science etc.
5. Established Institute Innovation Council (IIC), Incubation Centre, Startup Policies and Consultancy Polies
6. Under the start-up scheme a company by faculty has been established.
7. DIAT faculty developed some products to prevent and fight against COVID-19 during lockdown

File Description	Documents
Upload relevant supporting document	No File Uploaded

## INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

Our institute always ensures the gender equality through different policies. Every year we review and upgrade the annual gender sensitization action plan, specific facilities provided for women in terms of safety and security, counseling, facilitating for the adequate common rooms, and day care center for young children etc. The institute supports with a women grievance cell for women's empowerment. Gender equality policies are one of our priorities across the university and enable specific achievements with the action from all the areas. The

DIAT(DU) acknowledges that we share certain values and principles, such as equality, respect for human dignity, fairness, social responsibility. Few of the main activities are recognizing the multidimensional representations of women and men, promoting communications that represent unbiased representations of gender equity, conducting workshops that promote diversity and gender-sensitive communication for our employees, organizing gender studies orientation Programmes among students, faculty and staff. In the regular classes, faculty members promote working together, fair representations for leadership roles, involving in co-curricular activities, facilitate impartial participation, gender balance in team projects when possible, promote students meeting with faculty, having open and closed sessions with faculty members of the appropriate gender for related scenarios, complaints and counseling during class hours and at hostels.

File Description	Documents
Upload relevant supporting document	No File Uploaded
Annual gender sensitization action plan(s)	<u>The safety and security for women is taken care through various means as women security in the technical area as well as all the Hostels, lady wardens, lady doctors and maid in the campus, sexual harassment cell, women grievances cell, all the department have at least one lady faculty</u>
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common rooms d. Daycare Centre e. Any other relevant information	<u>The lady doctor for medical counseling, celebrate women's day by inviting the eminent Women (scientist, faculty, social worker etc), dedicated regular counseling and mentoring of women and dedicated placement cell for girls to enrich the employability are the added values for the gender equality at our institute. Play School and tiny tots schools are established day care unit for the employees of DIAT(DU) and the local society as well.</u>

**7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment**

A. Any 4 or All of the above

File Description	Documents
Upload relevant supporting document	No File Uploaded

**7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste**

**Title of the Practice:** The best practices described in this section are being executed via Internal quality assurance cell (IQAC) - ensures and improving the internal academic and administrative quality

**Objective of the Practice:**Our institute has dedicated cells/centers for internal quality assurance, collaborative international programs for both faculty and students and training/placement for our students. The prime objectives of these cells/centers are

1. To incorporate and improve the quality and transparency in all the administrative, academic and research activities at the institute.

**The Context:** Our IQAC introduces several guidelines in line with the UGC/AICTE/DDR&D/DRDO for providing a high quality teaching, laboratory components, facilities and contingencies supports to our students and faculty.

**The Practice:** Research and teaching enrich/upgrade the technical skills directly which in result improves the human values towards the social significance that becomes the most effective instrument for the holistic development of both students and faculty to our nation. These requirements are ensured with our IQAC, ICPC and CTP sections via providing continuous motivation to our faculty and students to gain confidence and involve in several national/international competent/events.

**Evidence of Success:**Thus, the claimed score for this section is 30. The supporting documents/ photo clips /Geotagged photographs can be found at the below weblink

[www.diat.ac.in/IQAC/](http://www.diat.ac.in/IQAC/)

File Description	Documents
Upload relevant supporting document	No File Uploaded

**7.1.4 - Water conservation facilities available in the Institution:** Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

A. Any 4 or all of the above

File Description	Documents
Upload relevant supporting document	No File Uploaded

### 7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered vehicles
3. Pedestrian-friendly pathways
4. Ban on use of plastic
5. Landscaping

A. Any 4 or All of the above

File Description	Documents
Upload relevant supporting document	No File Uploaded

### 7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

1. Green audit
2. Energy audit
3. Environment audit
4. Clean and green campus recognitions/awards
5. Beyond the campus environmental promotional activities

A. Any 4 or all of the above

File Description	Documents
Upload relevant supporting document	No File Uploaded

7.1.7 - The Institution has a disabled-friendly and barrier-free environment  
Ramps/lifts for easy access to classrooms and centres. Disabled-friendly washrooms  
Signage including tactile path lights, display boards and signposts  
Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc.  
Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.

B. Any 3 of the above

File Description	Documents
Upload relevant supporting document	No File Uploaded

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words)

Our institute takes several initiatives/efforts to create an inclusive environment all the time through various measures. All the initiatives ensures the diversities in tolerance, cultural harmony, regional celebrations, linguistic significance and communal socioeconomic. We have dedicated facilities and team for conducting the programmes to increase and spread the inclusive environment in all the possible dimensions. Our worship place contains all the temples of different religions/God-followers, in which, we all jointly pray and celebrate the religion events every time. Few of our regular events which ensures the inclusive environment are Hindi Pakoda, Cultural Programmes, Hindi/ English Essay, Ganapati puja, Eklavya meet, Diwali, Cultural programmes, Kids activities, and all religionholy/worship events.

File Description	Documents
Upload relevant supporting document	No File Uploaded

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

We organize several activities/programmes in our institute for inculcating values to be a more responsible citizen as a reflection of our Constitution. We organize various programmes such as Gandhi jayanti, Swachh bharat Abhiyan, promotional talks on the values and ethics of Mahatma Gandhi, National integrity day, National/international yoga day, Constitutional day, Dr. Babasaheb R Ambedkar Jayanti etc., to provide a collimation efforts to sensitize our students, faculty, non-teaching staff and daily supportive staff in our constitutional obligations. We organize several mentoring programme and invited talks to create a more awareness and sensitization at our employs to know the values, rights, duties and responsibilities as a citizen of our country. We have a dedicated SC/ST grievance cell ,women grievance cell, legal cell and RTI cell functioning with the specific objective to provide necessary directions/supports to our students and employs to make them more familiar to our constitutional obligations.

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to

All of the above

monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on Code of Conduct are organized

File Description	Documents
Upload relevant supporting document	No File Uploaded

**7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals**

Our institute takes a constant efforts to have sustained (or increased) institutional programmes/celebrations at the national/institutional repute as a commemorative events/festivals. We organized several workshops/Conferences/seminars in association with national/international institutions and industries. Few of our such celebrations are Gandhi jayanti, Swachh bharat Abhiyan, International conferences, national integrity day, book exhibition, International Yoga Day, Get Together and Women's Day.

File Description	Documents
Upload relevant supporting document	No File Uploaded

**7.2 - Best Practices**

**7.2.1 - Describe one best practice successfully implemented by the Institution as per NAAC format provided in the Manual**

**Title of the Practice:** The best practices described in this section are being executed via Internal quality assurance cell (IQAC) - ensures and improving the internal academic and administrative quality

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Evidence of Success: Thus, the claimed score for this section is 30. The supporting documents/ photo clips /Geotagged photographs can be found at the below weblink

[www.diat.ac.in/IQAC/](http://www.diat.ac.in/IQAC/)

### 7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

Only dedicated PG, PhD University for Ministry of Defence in the country, Chencellor Hon'ble RakshaMantri generous Grant - in Aid received. Sprawling beautiful campus Great infrastructure facilities. Excellent student support with hostels, library, scholarships, health care etc Transparent admission policy Clearly defined Vision and Mission Wide number of PG, and Ph.D programs in Engineering, Sciences, Management. National Qualified competitive students and accomplished faculty members. Good student-faculty ratio. Scientists / Faculty Members are ranked as top 2% as the most influential researcher in their technical domain as per the recent Stanford University's Scopus Indexed data.

Updated curriculum and syllabi to meet the needs of Armed Forces, DRDO, Defence Quality Assurance, Defense Ordnance Factories, Directorate of Aeronautical Quality Assurance, and other Public Sector undertakings many specialized / customized PG courses are conducted Higher standards of quality training in the critical area of modern Defence Technologies , thereby enhancing the technical capabilities of DRDO Scientists, Service Officers, Officers from Defence Industries and fresh engineering graduates Effective Teaching-learning process with use of ICT. e-governance and e-varsity Semester scheme with continuous assessment. Methodical and transparent evaluation process Strong research culture with significant research output. Community oriented extension activities. Enviably placement record Networking with DRDO, Atomic Research and CSIR, DBT.

7.3.2 - Plan of action for the next academic year

#### 1. Multidisciplinary/ interdisciplinary:

DIAT started different Schools, which involve different department to carry out teaching and research. Working with industry, DRDO laboratories, government and not-for profit



organizations in India and internationally, for M. Tech projects DIAT challenge current thinking and offer new solutions to change our Defence need.

## 2. Academic bank of credits (ABC):

DIAT constituted a committee for reviewing and implementing ABC in academic programme.

## 3. Skill development:

DIAT conducts different workshops for graduate students in advanced areas.

## 4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):

DIAT encourages to use traditional knowledge in various research programs. DIAT faculty members patented and published using tradition ayurvedic/casting knowledge.

## 5. Focus on Outcome based education (OBE):

DIAT adopted Outcome-Based Education (OBE) and it is a student-centric teaching and learning methodology in which the course delivery, assessment are planned to achieve stated objectives and outcomes

## 6. Distance education/online education:

DIAT encourage students of all M.Tech programmes for opting online MOOC/NPTL course as elective / audit subject.

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