



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution	DEFENCE INSTITUTE OF ADVANCED TECHNOLOGY(DEEMED TO BE UNIVERSITY U/S 3 OF THE UGC ACT 1956)
Name of the head of the Institution	Dr. C P Ramanarayanan
Designation	Vice Chancellor
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	02024304001
Mobile no.	9599221942
Registered Email	vc@diat.ac.in
Alternate Email	iqac@diat.ac.in
Address	DIAT, Girinagar
City/Town	PUNE
State/UT	Maharashtra
Pincode	411025

2. Institutional Status					
University	Deemed				
Type of Institution	Co-education				
Location	Rural				
Financial Status	central				
Name of the IQAC co-ordinator/Director	Prof Balasubramanian K				
Phone no/Alternate Phone no.	02024304207				
Mobile no.	7875593598				
Registered Email	vc@diat.ac.in				
Alternate Email	iqac@diat.ac.in				
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)	https://www.diat.ac.in/iqac/				
4. Whether Academic Calendar prepared during the year	Yes				
if yes, whether it is uploaded in the institutional website: Weblink :	https://www.diat.ac.in				
5. Accrediation Details					
				Validity	
Cycle	Grade	CGPA	Year of Accrediation	Period From	Period To
1	B	2.86	2015	26-Jun-2015	25-Jun-2020
6. Date of Establishment of IQAC	01-Jan-2014				
7. Internal Quality Assurance System					
Quality initiatives by IQAC during the year for promoting quality culture					
Item /Title of the quality initiative by IQAC	Date & Duration		Number of participants/ beneficiaries		
Preparation for NBA	01-Jan-2019 90		25		

Preparation for NAAC	01-Jan-2019 90	25
NIRF 2019 Ranking	01-Jan-2020 30	10
Preparation for participation in NIRF	01-Jan-2020 30	10
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8. 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
No Data Entered/Not Applicable!!!				
No Files Uploaded !!!				

9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

4

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

No

12. 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.Techprogramme • Facilitate student to visit DRDO labs and Industry for carryout Master projects • The projects related to COVID19 products were promoted.

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

Plan of Action	Achivements/Outcomes
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Smart class room	Made in all department
Syllabus revision/up-gradation	Achieved
Inclusion of specializations	Achieved
Research Facilities	Achieved
Industry-Academic Interaction /Collaborations	Achieved
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14. Whether AQAR was placed before statutory body ?	Yes
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Name of Statutory Body	Meeting Date
Board of Management	18-Sep-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
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16. Whether institutional data submitted to AISHE:	Yes
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Year of Submission	2020
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Date of Submission	03-Feb-2020
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17. Does the Institution have Management Information System ?	Yes
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If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>Database used in Finance, Academics section, Library and Material Management Group (MMG):</p> <ul style="list-style-type: none"> • Academics Section: Academics Section maintains a complete database of the number of application received to admission to M.Tech, MS by Research, Ph.D programs. Apply to the statutory body for its approval and extension. • Finance Section: Defence Institute of Advanced Technology, being Unitary University, Financial records are fully computerized. Accounts have been maintained in a University accepted accounting system in India, i.e., Mercantile System, and it is being kept in Tally. Tally latest version is being used to manage financial data. • MMG: Purchase and Procurement: are processed through MMG for the entire Institute. MMG maintain Inventory items, store items and other asset details in the
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database and uses Tally to handle the billings. • Library and Information Centre: LIC is fully automated with LIBSYS integrated, multiuser and webcentric library management software. The Library maintains the Bibliographic database of Books, Journals, Thesis, Dissertation and other resources. The software facilitates the library in providing quick efficient services. 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 database of entire library resources from any networked computer/laptop within the DIAT (DU) campus.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
No Data Entered/Not Applicable !!!			
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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
No Data Entered/Not Applicable !!!				
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
Mtech	AE 609 Guidance and Control of Aerospace Vehicles	08/01/2020
No file uploaded.		

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the University level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
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No Data Entered/Not Applicable !!!

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
One week CEP on 'Computational methods in solids fluids'	01/04/2019	48
Two weeks customized course on 'Computational Fluid Dynamics - Theory Practice' for DRDO Scientists/Engineers	04/02/2019	48
Talk on exuatic materials by Prof. Brajendra Mishra, WPI, USA	01/07/2019	35
Talk on electropolishing used on different metals Mr. Patil from Omnitech Solution	01/07/2019	5
Talk on statagic materials Prof. Dr. Amol Gokhale	01/08/2019	40
Talk on use of simulation software in metallurgy/materials by Prof. GhandhamPhanikumar, IIT Madras	01/10/2019	30
Talk on labor management in industry by Mr. Santosh K. Malik, General Manager, MazgaonDok, Mumbai	01/12/2019	30
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
No Data Entered/Not Applicable !!!		
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained

• Feedback on the teaching-learning process is received from students as a Students satisfaction survey based on a structured questionnaire framed and approved by the Competent Authority of the University. The questionnaire can be downloaded (distribute) from (to) the web link, and Students can drop they are filled in the feedback form, where the feedback form collected in the Academic Section. The received feedback is then be analyzed by the Academic Section, and it will be forwarded to the respective departments, and it is also forwarded to the Head of the institution with necessary suggestions based on this feedback. Teachers provide informal as well as formal input to the Head of the institution on different academic, administrative, and other affairs related to the University. Departments receive feedback from parents through parent-teacher meetings if required and discuss various issues related to the overall development. Based on the input, necessary improvement/modification on teaching-learning evaluation and curriculum are proposed in BOS. Also, feedback from alumni and others (DRDO) is utilized to modify the curriculum based on Board of Studies (BOS) recommendations. • Administration takes feedback every semester from the students before the examinations. Students Feedbacks (SF) is evaluated at the faculty meeting, and corrective actions are then made. Each student is encouraged to become alumni of the institute. The parents feedback is often asked when a student is found to be not performing up to the mark. Faculty feedbacks are usually taken during APAR and CAS promotions. SWOT analysis id done on the feedback. the issues are addressed systematically.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
Mtech		398	868	230
PhD or DPhil		37	164	28
MS		5	1	1
MSc		25	6	6

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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	0	230	0	46	0

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
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No Data Entered/Not Applicable !!!

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

All faculties are deeply involved in mentoring the students and preparing them for their project presentation as well as for their interview at different places with Govt and private sectors. DIAT organizes sports festivals each year, where the students get maximum exposure and interaction opportunities to develop their personality. Similarly, the cultural festival is held each year, and students, along with faculty mentors, participate and showcase their talent. Department wise students are identified for preparing them to face a challenging interview process through training and placement cell. Students are involved in social services activities through student clubs. Distinguished lecture series is a prominent activity that DIAT faculty organizes where prominent speakers are invited from within the city as well as from out of the town catering to industry and academia. Respective programme coordinators mentor all M. Tech and Ph.D. programmes throughout their stay at DIAT. Approximately equal numbers of students are assigned to all faculties in each department for carrying out their projects. Faculties act as local guardians and mentors throughout students academic tenure. Students academic involvement, grievances, personal-professional issues are taken care of by a mentor. Each mentor does student counseling at regular intervals.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
230	46	1:5

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
70	46	24	4	40

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2020	Dr CRS Kumar	Professor	Best Faculty Award (Funded Project category), CSI TechNext India
2020	Dr CRS Kumar	Professor	Microsoft Innovative Educator Expert (MIEE) from Microsoft
2020	Dr CRS Kumar	Professor	Honorary Doctorate from Los Angeles Development Institute and Church
2019	Dr Sunita Dhavale	Assistant Professor	Mentor of Change' for the Government of India's flagship program of Atal Tinkering Labs (ATLs), established

by the Atal
Innovation Mission,
NITI Aayog., 2019

2019

Dr Sunita Dhavale

Assistant Professor

Best paper award
for her authored
paper titled "C-
ASFT: Convolutional
Neural Networks
based Anti-Spam
Filtering
Technique", 2019

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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
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No Data Entered/Not Applicable !!!

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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
0	530	0

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<https://diat.ac.in>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
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No Data Entered/Not Applicable !!!

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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<https://diat.ac.in>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
No Data Entered/Not Applicable !!!				
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3.1.2 – Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other fellows in the Institution enrolled during the year

Name of Research fellowship	Duration of the fellowship	Funding Agency
3-JRF	730	SERB
JRF - 1 Leveraging Deep Learning for Human Activity Recognition	730	DIAT Institutional Project
JRFs - 2 Design Fabrication of wide band rejection shields using multilayers of periodic resonator arrays and carbon-based nano-composites	1096	DST
JRF -1 Design of Wideband HF Antennas	550	CARS
JRF - 1 Development of non-flammable hydrogen using selected inhibitors and study of its lifting ability (Phase-1.5)	365	ADRDE, DRDO Lab, Agra
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3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
No Data Entered/Not Applicable !!!				
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3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
NC3 2019	Applied Chemistry	14/01/2019
NMR Training	Applied Chemistry	17/10/2019
Prof. Peeyush Chandra, Retired, IIT Kanpur	Applied Mathematics	25/07/2019
Prof. Sree Hari Rao Vadrevu, Retd, JNTU, Hyderabad	Applied Mathematics	29/01/2020
Dr. Bhaskar Majumdar was Organizing committee	Department of Metallurgical and	12/07/2019

member of "A short course on Metallurgy For Non-Metallurgists: Industrial Practices (Mmm-2019)	Materials Engg (Indian Institute of Metals, Hyderabad chapter)	
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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Best Paper Award	Dr Sunita Dhavale	International Conf. on Computational Science Applications.	07/08/2020	Algorithms for Intelligent Systems
Micro structural and mechanical properties of GTAW, GMAW FSWed AA7005 alloy: a comparative study.	Mr. Ayush Verma	NIT Trichy, IIM	11/02/2020	Oral presentation
Highly Cited Author (Top 1 in India by IOP Publisher)	Dr. T. U. Patro	IOP	15/10/2019	Citation in a year
Microstructural and mechanical properties of GTAW, GMAW FSWed AA7005 alloy: a comparative study.	Mr. Ayush Verma	NIT Trichy, IIM	03/09/2019	Oral presentation
First Place in Paper Presentation	Maj Kunal Pal	ICDMA 2020	15/01/2020	Paper presentation at ICDMAI 2020
MIEExpert 2019-20	Dr CRS Kumar	Microsoft	07/08/2019	Innovative Education Practices
Technical Leadership Award 2019'	DIAT	IBN News, Mumbai	07/03/2019	University level
Top Cited Author Award 2019: top 1 most-cited papers.	Dr. Suvarna Datar, Dr. P S Alegaonkar	IOP Publishing	12/02/2019	Research
2019 IET Science, Measurement Technology Premium Award	Rishi Raj Sharma and Ram Bilas Pachori	IET	25/11/2019	Premium Award

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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
No Data Entered/Not Applicable !!!					
View File					

3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Aerospace Engg.	1
Computer Science Engg.	2
Mechanical Engg.	2
Applied Mathematics	4
Applied Chemistry	2
Electronics Engg.	2
Metallurgical and Materials Engg.	2

3.4.2 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Aerospace Engg.	3	1.86
National	Aerospace Engg.	0	0
International	Mechanical Engg	18	1
International	Applied Mathematics	3	1.5
International	Applied Physics	18	2.3
National	Metallurgical and Materials Engineering	1	0.5
International	Metallurgical and Materials Engineering	61	3.5
International	Electronics Engineering	23	2
National	Computer Science and Engineering Dept	2	0
International	Computer Science and Engineering Dept	5	1.5
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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Metallurgical and Materials Engineering	6

Computer Science and Engineering	3
Electronics Engineering	15
Applied Physics	5
Applied Mathematics	3
Mechanical Engg.	2
Aerospace Engg.	3
View File	

3.4.4 – Patents published/awarded/applied during the year

Patent Details	Patent status	Patent Number	Date of Award
No Data Entered/Not Applicable !!!			
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3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
No Data Entered/Not Applicable !!!						
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3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
No Data Entered/Not Applicable !!!						
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3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
No Data Entered/Not Applicable !!!				
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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Applied Physics	Certification for the Cell performance	Gegadyne	295000
Applied Physics	Photoluminescence Analysis	Eaton	65000
Applied Physics	AFM Analysis	TCS	10000
No file uploaded.			

3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
No Data Entered/Not Applicable !!!				
View File				

3.6 – Extension Activities

3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
No Data Entered/Not Applicable !!!			
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3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
No Data Entered/Not Applicable !!!			
No file uploaded.			

3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
No Data Entered/Not Applicable !!!				
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3.7 – Collaborations

3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
No Data Entered/Not Applicable !!!			
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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Research work	M.Tech and PhD	IIT BHU, IITB, IITKgp, IISc, IIT Kanpur, Pune University,	01/01/2019	31/12/2020	M.Tech and PhD students

COEP, NCL,
DRDO labs,
Bharat Forge
Ltd, LT
defence

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3.7.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
No Data Entered/Not Applicable !!!			
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
400	400

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Classrooms with Wi-Fi OR LAN	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
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4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
LibSys	Fully	10	2010

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	14770	8215861	114	245148	14884	8461009

Reference Books	43514	89172677	41	215197	43555	89387874
e-Books	339	2513889	4383	7001334	4722	9515223
Journals	0	0	104	312599	104	312599
e-Journals	0	0	2036	11424774	2036	11424774
Digital Database	0	0	8	5478087	8	5478087
CD & Video	1937	0	36	0	1973	0
Library Automation	2	2994476	0	362650	2	3357126
Weeding (hard & soft)	4805	0	0	0	4805	0
Others (specify)	2227	0	36	0	2263	0
View File						

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
No Data Entered/Not Applicable !!!			
No file uploaded.			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	0	0	0	0	0	0	0	0	0
Added	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

100 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
No Data Entered/Not Applicable !!!	

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical

	facilities		facilities
255	153	795	553

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

1. All proposal for construction of new academic building, library, class room and electrical appliances are submitted to DRDO headquarter with SOC along with proper justification and supporting documents. DRDO HQ constitutes Board of Officers (BOO) is constituted and on the recommendation of the BOO, the competent authority may consider the proposal for sanction. The sanctioned works are either executed either by CCE(W), pune or MES, Girinagar, Pune. 2. Maintenance and repairing of academic buildings, library, classrooms, electrical appliances and other physical infrastructure of DIAT is done by the Military Engineering Service (MES), Girinagar Pune. The Estate Works Officer on behalf of Vice Chancellor intimates the construction, maintenance and repairing related requirements, as and when required, to the MES. 3. The DIAT receives grants-in-aid from the department of Defence R D, Ministry of defence, Govt of India for procurement of different items which include salary, equipments, chemicals and glassware, sports items, books journals, equipment and contingency. 4. While purchasing equipment from any fund, it is generally ensured that the installation charges and maintenance charges (within warranty period) are provided by the company, which delivers the equipment. Such clause is inserted in the work order of the equipment.

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
No Data Entered/Not Applicable !!!			
View File			

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
No Data Entered/Not Applicable !!!			
No file uploaded.			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
No Data Entered/Not Applicable !!!					
View File					

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
0	0	0

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Nil due to COVID-19	0	0	Cognizant, TCS, 3D PLM, Phonepe	68	28
No file uploaded.					

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
No Data Entered/Not Applicable !!!					
View File					

5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
No Data Entered/Not Applicable !!!	
View File	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
No Data Entered/Not Applicable !!!		
View File		

5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
No Data Entered/Not Applicable !!!						
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The function of the Students Council: Students council provides an opportunity for students to develop their leadership skills through active participation in college administration and student collaboration. The student council is expected to perform the following functions: • Organizing cultural activities and sports activities for students. • Communicating problems faced by students

to HODs and management of the university. • Maintaining discipline in the university campus. • Maintaining a university campus clean and green. • Participation in extension activities like voting awareness programme, Swachh Bharat Abhiyan, Tree plantation, Yoga day, Blood donation camp, etc. • They give their suggestions for the purchase of books, magazines for the library. The following committees have student representatives: • Students Council • Anti-Ragging Committee • Sports Committee • NSS Committee • Alumni Association • Anti-Sexual Harassment Cell • Annual Magazine Committee

Students in Administration: • Our primary focus is advising students about organizational matters regarding their studies, representation of student interests in commissions and conferences, and events. • As we are participants of many commissions, we represent student interest, for instance, whenever a new curriculum is created. Additionally, we serve the student body at the Study Conference and the Faculty Conference. When there is a call for a new professorship, we members of the student representatives are dispatched to participate in the appointments committee. • Apart from that, we are continually planning events such as the welcome-week for first-year students, panel discussions, seminars, parties, etc. • We additionally provide learning materials. If you have any content (transcripts, etc.) to share with your colleagues, we can accept it during our office hours. Students are engaged in

Many Ways: • As course representatives and representatives on department, division and University committees, or by interacting with their student representatives • By providing individual and collective feedback on their learning and more comprehensive student experience through surveys and other means (including consultation exercises) • Through engagement in crucial quality assurance and enhancement processes, including reviews and course approval. The institute ensures that: • Every student at every level of every course will have access to representation, and as a result, will be able to influence their learning and broader experience through their representatives • Student representatives and staff working with them are aware of their responsibilities • Student representatives are supported and trained in their roles • Staff-student committees are forums for two way dialogue and consultation • Student representatives on all committees are empowered to raise issues and make meaningful contributions to discussions every student has a chance to provide feedback individually and anonymously on their learning and broader experience at relevant points in their course of study Feedback is analyzed and any issues raised are addressed through department, division and University processes in a timely and effective way, always ensuring that the outcomes are fed back to the student body • Students are empowered to engage meaningfully with essential quality assurance and enhancement processes.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Defence Institute of Advanced Technology (DU) Alumni Association (DIATAA) has been 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 to keep alive love, spirit, affection, and gratitude for our alma mater. The Total registered Alumni as on 31st March 2019 is 901 and the contribution is Rs.8,90,500/-. An alumni meet was arranged before cristmas 2019. One of the alumni, past student of Modeling and Simulation had requested the Vice Chancellor that from 2020, all the students of Modeling and Simulation, Computer Science and Engineering and Quantum

Technology will be interviewed for recruitment in his Company. The students of Aerospace, Mechanical and Electronics Engineering will be interviewed for Project Dissertation for DASSAULT Aviation France.

5.4.2 – No. of registered Alumni:

52

5.4.3 – Alumni contribution during the year (in Rupees) :

52000

5.4.4 – Meetings/activities organized by Alumni Association :

One meeting

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Decentralization: The institution has a mechanism of providing operational autonomy to various functionaries in order to ensure a decentralized governance system. a) Faculty members are given representation in various committees/cells nominated by the Vice Chancellor, in the Governing body, in the IQAC and other committees. b) Various institute level committees have been entrusted to look after subject specific works/matters and make suitable recommendations for consideration by the competent authority. c) Various statutory committees have been constituted d) Dean Academics is approving authority for utilization of contingency grant and approving of the TDs of faculties e) Dean (Sponsored Research) is approving authority in the matter of project sanction and utilization of the funds f) Dean (Students Affairs) is approving authority in the matter of student related matters. g) HoDs are empowered to sanction Rs. 25,000/- cash purchase of the items h) HoDs are empowered to approve the leave of their staff working under them i) In service departments sub-ordinate officers have been authorized to dispose of many routine cases j) Non-teaching staff are represented in various committees and the IQAC. Suggestions of non-teaching staff are considered while framing policies or taking important decisions. k) Created a separate unit named "Centre for Training and Placement Cell" and delegated power to Director equivalent to HOD including maximum autonomy. **Participative management:** The institution promotes the culture of participative management at the strategic level, functional level and operational level. a) Strategic level: The Institute authorities (Viz BOM, AC, IQAC, FC P MB) , and the Vice Chancellor are involved in defining policies procedures, framing guidelines and rules regulations pertaining to admission, examination, discipline, grievance, support services, finance etc. Suggestions are invited for various agenda items to be considered by the authorities of the institute. b) Functional level: Faculty members share knowledge among themselves, students and staff members while working for a committee. The Vice Chancellor interacts with DRDO, Service Hqs and other government and external agencies. c) Operational level: The Vice Chancellor has constituted core committee consisting of all Deans, Registrar and FO to consider all important issues of the institute Faculty members are involved in joint research and have published papers.. Students and office staff join hands with the Vice Chancellor and faculty for the execution of different academic, administrative, extension related, co-and extracurricular activities. Higher responsibilities to Assistant Professor - Assistant Professor have been works in-charges of various committees of university level and incharge responsible for MoUs with various outside agencies Assistant Professor as HoDs - to encourage Asst Professor involvements in higher management and decision making, a few Asst

Professors, have been made HoDs.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	DIAT regularly undertakes to develop and upgrade the course curriculum to fulfil the needs of the all stakeholders as well as deference industry at large by conducting BOS at regular intervals involving experts from DRDO, Tri Services, Academics, and Industries. As per the demand Institute also introduces new and unique program to meet the requirements of the DRDO as well as Defence Industries of the country. The proposed syllabus by the dept. is vetted through Post graduate Committee (PGC) of DIAT before getting formal approval from Academic council (AC) of DIAT. Rules and regulations are updated as per the UGC norms as and when required.
Teaching and Learning	Teaching learning process has an extensive use of demonstration / practical session along with regular class room teaching as a part of the curriculum. Use of ICT for effective teaching with Learning Management Systems (LMS) and E-learning resources etc. All students are asked to give presentations on state - of the Art technologies as a part of course outcome. All M Tech programs are enriched by involving experts from various sectors such as Academia, Industries, and RD establishments.
Examination and Evaluation	The role of Controller of Examinations is to conduct fair and timely examinations (as per the academic calendar of the University) for the M.Tech / MS (by research) / PhD students registered with University. Implemented standard code of conduct of examination procedure to process the M.Tech thesis evaluation, processing of PhD thesis for evaluation and viva-voce, compilation of Marks, timely declaration of results and issue of marks statements, Presenting the results analysis report before Academic Council for its approval for award of degree to the qualified M.Tech/ MS (by

research) / PhD candidates during convocation every year. Amended the guidelines for examination and evaluation, amendment of the guidelines from time to time, ensuring strict adherence of guidelines by faculty. Examination reforms implemented by the institution, in terms of quality of testing instruments, conduct of examination, evaluation procedures and announcement of results. • Single mid semester exam is replaced by three assessment tests spread throughout the semester to achieve continuous evaluation. • Marks/Percentage based system is replaced by Grade based evaluation. • Results are awarded in form of SGPA/CGPA. • Policy and implementation of providing Grace marks. • Provision of Retotalling is made.

Research and Development

DIAT encourages young faculty members to undertake research projects and also funds them. Also allows participating in collaborative research projects with DRDO scientist. The faculty is encouraged to seek research fundings 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.

Library, ICT and Physical Infrastructure / Instrumentation

Equipments Induction Programme was implemented this year onwards - 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. The library serves as a creative and innovative partner in supporting the teaching, learning research activities of the Institute and it is committed to providing the best possible information services to fulfill the information needs of its academic community. DIAT library has created an excellent infrastructural facility with all the latest tools and technologies. The library provides a conducive environment for users with adequate natural lighting and air-conditioned reading zones. The endeavour is to create an inspiring

learning environment. The library has a good collection development policy, and Institute provides adequate funds for procurement print as well as electronics- purchase of books, subscription of journals, and other learning resources. All electronic resources - full-text electronic journals, online databases, electronic books, and other electronic scholarly resources are accessible from any networked computer/laptop within the Institute campus. Initiated development of Institutional repository of DIAT with faculty publications, dissertation and thesis, and other institutional documents. Institute provides high-speed internet facilities with authenticated and secured Wi-Fi facilities with a good number of high-speed computers to and faculty, research scholar and M Tech students. includes online Leave records, online service book records, online LTC, online DAK, e-office module, online guest house booking, online vehicle requisition, online personal records, online project management, online recruitment of all the posts etc. all admin related requirements can be seen in admin ERP module. Integration of biometric details with daily attendance sheet of the ERP, all things automated.

Human Resource Management

Many departments conducted CEP /Workshop /Training programs for faculty members to update their knowledge as well as to handle high end instruments /equipments. Faculty were also encouraged to attend professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, FDP to update their skills and subject knowledge conducted by other institutions. Teachers provided with financial support to attend conferences / workshops and also decided to reimbrasesed towards membership fee of professional bodies. Non - teaching staffs were also encourages attending training programs to update their knowledge and skill level.

Industry Interaction / Collaboration

DIAT signed MoUs with industries to undertake academic and research collaboration in the areas of mutual interest, Joint RD in applied futuristic areas of Science and

	Technology, Joint RD for development of products/process, exchange of academic information, scholarly information, materials, publications Research Projects. Also to conduct FDP/SDP/Seminars/ Workshops/ Conference/ Guest Lectures on latest technologies.
Admission of Students	Online applications were received from GATE qualified candidate for admission to different M Tech programs. student centric data at one centre point, student login ID and password generated for all the future correspondence online student feedback, online lecture load, online question paper settings, online assignment, online evaluations and marking, online semester fees and subject selections, auto generated sms to students about updation and time tables or any new things. Special classes to students for introduction of this Academic and Exam in ERP system.

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Examination	Website of DIAT was made more student, faculty and visitor friendly to implement the e-governance. These include Grievance handling mechanism, materials management group interaction with vendors, faculty academic profile projection, admission forms and other official communications, including admissions, applications, advertisements, result declarations and so on.
Finance and Accounts	<p>i. Defence Institute of Advanced Technology being unitary University, Financial records are fully computerized. Accounts have been maintained in universally accepted accounting system in India i.e Mercantile System and it is being maintained in Tally.ERP 9 Accounting Software. Tally ERP latest version is being used to maintain financial data.</p> <p>ii. Finance department has adopted the e-payment system for all types payments of the institutes. E-payment system is based on the three-tier authorization basis to bring the accuracy. To bring the transparency minimal cash transactions are carried out only in case of emergency. iii. Application fees and Semester fees are being</p>

	collected ON-LINE basis using the platform provided by State Bank of India. Hassel free fee collection system is in place.
Student Admission and Support	Online applications were received from GATE qualified candidate for admission to different M Tech programs. student centric data at one centre point, student login ID and password generated for all the future correspondence online student feedback, online lecture load, online question paper settings, online assignment, online evaluations and marking, online semester fees and subject selections, auto generated sms to students about updation and time tables or any new things. Special classes to students for introduction of this Academic and Exam in ERP system.
Planning and Development	1. DIAT modifies local institutional bodies from time-to-time. Routine Orders are issued for their implementation. Dean (Academics) was institutionalized to handle the academic requirement of the University. 2. POINTS - 22programme was conducted in a restructured manner, many customized programmes were conducted for BDL, BEL, HAL, BRAHMOS and IOFs. DIAT has an active Placement Cell has attracted several top notch industries such as TCS, WIPRO, Bharat Forge, Premier Explosives, BrahMos, HAL, NAL etc. 3. Few administrative changes were implemented:

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Dr. Sunil Nimje	International workshop on Robotics	IIT Delhi	1000
2020	Ms. Prajakta Koratkar	International workshop on "Systems and Technologies for Advanced Robotics- Futuristic Perspective"	RDE(E), Pune	13000

2020	Ms. Prajakta Koratkar	International workshop on Robotics	IIT Delhi	0
2019	Dr. Shanmugasundaram T	26th International Symposium on Metastable, Amorphous and Nanostructured Materials, ISMANAM 2019	ISMANAM 2019, Indian Institute of Technology, Madras, Chennai	10000
2019	Dr. A. C. Abhyankar	National conference on Chalcogenide Compounds NC3-2019	DIAT, Pune	5000
2019	Dr. Shanmugasundaram T	Orientation program on Technical Education	Savithri Bai Phule Pune University, Pune	1000
2020	Dr. BhaskarMajumdar	12th Asia-Pacific Microscopy Conference (APMC12) at HICC, Hyderabad	Electron Microscopy society of India, in association with DMRL, Hyderabad	15000
2019	Dr Tejashree Bhave	International Conference on Smart Materials and Nanotechnology (ICSMN-2020)	DIAT	10000
2020	Dr D Pradhan	Workshop on Parallel Finite Element Computing Using ParMoon, Department of Computational and Data Sciences, Indian Institute of Science Bangalore, India during the period from October 14 - 18, 2019.	IISc	10000
2020	Dr D Pradhan	Workshop on Finite Elements for Nonlinear and Multi-scale Problems at	IISc	20000

Department of
Mathematics,
Indian
Institute of
Science
Bangalore,
India during
the period from
Feb 28 - March
3, 2020.

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6.3.2 – Number of professional development / administrative training programmes organized by the University for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Training on service matters	Talk on service matters	12/04/2019	13/04/2019	28	87

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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
FDP in 'Research Methodologies and Advanced Optimization Techniques' at MIT World Peace University, Pune	1	16/12/2019	20/12/2019	4
FDP in 'Research Methodology' UGC HRDC, JNTU Hyderabad	1	14/10/2019	26/10/2019	12
170th General Orientation Programme, at SPPU Pune	2	15/09/2019	05/10/2020	20

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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching	Non-teaching

Permanent	Full Time	Permanent	Full Time
46	46	100	100

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<ul style="list-style-type: none"> • Increment on Completion of Ph. D. • On Duty for attending Seminar / Conferences/ Workshops • Financial assistance for participation and presentation in the national/international Seminars, Conferences and Workshop, with the country. • Financial assistance for participation and presentation in the International Seminars, Conferences etc once, in three years. • Medical reimbursement facility • Allotment of Govt residences 	<ul style="list-style-type: none"> • Incentive for acquiring higher qualification • Medical reimbursement facility • Allotment of Govt residences 	<ul style="list-style-type: none"> • Orientation programme • Sports activity • Social activity • Cultural activity • Industrial visit • National laboratory visit

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

<p>i. 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 (CAG). Internal Audit is conducted every quarter whereas statutory audit is conducted after the end of the financial year. ii. In addition to this, Institute being wholly funded by DRDO, Ministry of Defence .Hence, CAG audit is also conducted for the financial year. iii. 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.</p>

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Mr.Vivek Kulkarni, IAS, Retd. (Visiting Prof.IISC, Bengaluru)	200000	Best Student Award in Technology Management
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6.4.3 – Total corpus fund generated

25493390

6.5 – Internal Quality Assurance System

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

Audit Type	External	Internal
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	Yes/No	Agency	Yes/No	Authority
Academic	No		Yes	Inter department
Administrative	No		No	

6.5.2 – What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? (if applicable)

NA

6.5.3 – Activities and support from the Parent – Teacher Association (at least three)

- Increase in the seats of all programmes for admission
- Student results analyzed for improving further
- Addition of value added courses and interdisciplinary courses

6.5.4 – Development programmes for support staff (at least three)

- Staffs orientation in different department
- Training on letter writing/drafting etc
- Administrative training
- Women Empowerment

6.5.5 – Post Accreditation initiative(s) (mention at least three)

1. NBA accreditation of 5 M Tech Programmes
2. NIRF Ranking
3. Re-constitution of IQAC committee
4. Revision of Syllabus based on the outcome of feedback from stack holders.
5. Implementation of ERP system (Ekalvya) - Modules for Academic, Examination Section, Administration, Material Management (Store Purchase), Finance section.
6. Academic and Administrative Audit of the Institute.
7. Biometric of attendance of all the subjects.
8. Lecture recording system.
9. Enhancement of Wi-Fi connectivity of all classrooms.
10. Up gradation of Research infrastructure and Laboratory renovations
11. Construction of additional room in Hostel blocks (2016-17)
12. Construction of New Girls Hostel.

6.5.6 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	No
d) NBA or any other quality audit	Yes

6.5.7 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2020	Preparation for NBA	01/01/2020	01/01/2020	31/03/2020	25
2020	Preparation for NAAC	01/01/2020	01/01/2020	31/03/2020	25
2019	NIRF 2019 Ranking	01/01/2020	01/01/2020	31/01/2020	10
2020	Awareness and orientation for faculties, staffs on Management	01/06/2020	01/06/2020	06/06/2020	250

	of Covid related issues (through various online portal)				
2020	Awareness to all the students about Covid related issues as per guidelines of UGC/MHRD	01/04/2020	01/04/2020	01/04/2020	200
2020	Development of products for COVID related precautionary measures. 8 products were developed and the technology was transferred to various SME's. The product details are available in the DIAT website.	01/04/2020	01/04/2020	31/07/2020	20
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Prayag DIAT Cultural Fest	15/04/2019	16/04/2019	70	100

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
The Institute has an Environment Committee who looks after the regular affairs of sustainability and ecological consciousness within the campus and its premises. In this regard, the following practices were adopted by the Institute. • Environment Initiative: A lush green campus surrounds the DIAT.

New saplings/plants are grown on the entire campus to reduce carbon footprints. The Institute conducts a green audit through an environment committee. The guest faculty delivers lectures on the environment. The entire institute, common meeting places (Post office, Gole Market, Bank, MI room etc), technical areas, Hostel and residential places were sanitized at least twice in a month from March 2020 by Faculty and staffs.

- **Swachh Bharat Mission:** To spread the message of Sanitization within and outside the campus, DIAT regularly follows the Prime Minister of India launched Swachh Bharat Mission. Under the mission, every year, DIAT adopts few villages and ensures that the open defecation free (ODF) behaviors are sustained and give lessons on solid and liquid waste management. Few Department were given the financial support from the institute for adopting villages to enrich the knowledge of Swachh Bharat Mission.
- **Energy Conservation:** For conserving the energy, we use various electrical and electronic devices to auto cut the power when not in use. The old power-consuming tube lights were replaced by the LED lights in the entire Institute. The staffs and faculty members were encouraged for either walking or cycling to and fro in the institute campus. Students were given orientation by social workers in the hostel on managing and conservation of energy. The cycle parking spaces were built to avoid the crowd.
- **Use of Renewable Energy:** Biogas plant was constructed in the technical area, and it is in use at Cafeteria. The plant reduces the burden of LPG gas. Several more such biogas plants are under installation. Solar power is used on the campus and is being planned to be utilized for cooking purposes. Several faculties are pursuing research in the field of Solar Cells. Vertical farming were encouraged by the students in the hostel for flowering and creepers.
- **Water Harvesting:** We use a spray system for watering the plants and harvest rainwater for gardening. We conserve a lot of water by use of fertilizer for plantation. Vertical farming was practiced by the staff and the faculty members residing in the campus.
- **Plastic-free Campus:** The DIAT campus has been made free from the plastic, and the single-use of polythene bags are banned. Glass water bottles are used instead of plastic water bottles inside the Institute. The vendors were penalized if plastic bags were distributed. The use of non plastic materials like Mud pots and Glass based container were encouraged.
- **Carbon Neutrality**
- **Hazardous waste Management:**
- **E-waste management**
- **Percentage of the power requirement of the University met by the renewable energy sources:** Nil

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1
Provision for lift	Yes	1
Ramp/Rails	Yes	1
Braille Software/facilities	No	0
Rest Rooms	Yes	1
Scribes for examination	No	0
Special skill development for differently abled students	No	0
Any other similar facility	No	0

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to	Number of initiatives	Date	Duration	Name of initiative	Issues addressed	Number of participating
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	address locational advantages and disadvantages	taken to engage with and contribute to local community					students and staff
2019	2	1	25/03/2019	5	Rural Camp	Cleanliness Good Health	55
2019	3	1	27/03/2019	1	Blood Donation	Why blood donation?	42
No file uploaded.							

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
No Data Entered/Not Applicable !!!		

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Gandhi Jayanti celebration with Swachh Bharat Abhiyan to promote the values and ethics of Mahatma Gandhi	02/10/2019	02/10/2019	73
National Integrity day	09/11/2019	09/11/2019	62
National Integrity day	26/10/2019	31/10/2019	201
International Yoga Day	21/06/2019	21/06/2019	75
No file uploaded.			

7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

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 programmes • 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 through different events • 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

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. Innovation practices -Competent authority has approved innovation club and innovation council at DIAT and the same has been registered with AICTE - MHRD. The activities of the Innovation club have been intimated and are on going time to time and industry interaction expert lecture/workshop/brain storming sessions have been organized be this cell to encourage innovation and entrepreneurship at DIAT. 2. Conduct of DIAT Distinguished Lecture Series - DIAT invites distinguished _____from varied fields to deliver a talk and

interact with the faculty and students every month 3. Open Book exam - DIAT encourages the conduct of open book exam to exam that the students do not follow the ROTE supplies of studies but understand the concept of every topic and to able to apply them 4. IQAC Cell: Dedicated IQAC cell audits all the departments and wings with external experts from reputed institutes like IISER, DRDO, IIT, Central University etc. 5. Faculty and students are encouraged to publish only in peer reviewed journal publications and all the paper are either web of science or scopus indexed. There is a dedicated IP cell that support the filing of provisional patents and orients the University for venturing on new ideas. 6. The dedicated placement cell provide all kinds of support to various extended activities like pre placement talk, placement talk, motivational talks, group activities, oration skills etc. 7. Cultural and Spots Fest - DIAT ensures overall development of the students by encouraging them to hold a cultural and sports fest every year and to showcase their talent. 8. Proper investigations and disposal of grievance. Timely promotions of teaching and non-teaching staff. 9. Promotion of teaching, learning, evaluation and research activities through computer-aided methods 10. Timely publication of Annual Reports - The Annual Report of every academic year that is submitted in the parliament will be ready by Jul-Aug of following year. This goes a long way in establishing the culture of transparency in this institution.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<https://www.diat.ac.in>

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

DIAT aspires 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. Defence Institute of Advanced Technology (DU) 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 customers delight. Quality Objectives

- To cultivate core Competencies in Basic Applied Research in contemporary Futuristic Technologies.
- To attract and nurture Intellectual capital.
- To maintain an Eco-Friendly and appropriate Academic Ambience.
- To promote professional Development of personnel for productive performance.
- To strengthen collaboration with the Armed Forces, Academia, RD Institutions and Industry.
- To generate adequate financial resources for sustainable Growth and Development.

DIAT has following distinctions:

- DIAT is the only technological University under the Ministry of Defence
- Effective conjunction among services, DRDO defence PSUs sponsored candidates as well as GATE qualified civilian students.
- Effective conjunction between teaching and research
- Providing quality education with a minimal fee structure
- Promoting academic, physical, moral and cultural development of students
- Preparing students for the competitive world
- Academic and professional development of teachers and staff

Provide the weblink of the institution

<https://www.diat.ac.in>

8.Future Plans of Actions for Next Academic Year

- Revisiting of existing course curriculum as applicable to Defence Technology
- Efforts for the generation of revenue through sponsored research projects to achieve self-sustainability.
- Introducing the Undergraduate programme i.e.,

B.Tech in Defence Technology • Organizing the faculty quality enhancement programme. • Efforts for the accreditations by various national and international agencies. • Improvement of training and placement of students. • Scientific documentation of the academic records and digitization of information sources and service