



Yearly Status Report - 2018-2019

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.	9483516385
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	Dr. H. S. Panda				
Phone no/Alternate Phone no.	02024304205				
Mobile no.	9545417608				
Registered Email	iqac@diat.ac.in				
Alternate Email	hspanda3@gmail.com				
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)	https://www.diat.ac.in				
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	03-Feb-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 visit of UGC-AICTE Expert Committee to review the	06-Aug-2018 30			12	

functioning of review DIAT [as per UGC (Deemed to be University) Regulations 2016, mandatory intensive external review]		
To promote Innovative Culture for Creating Start-up /Sponsored Projects	02-Jul-2018 365	150
Creation of Incubation Centre	05-Mar-2018 60	250
Planning of infrastructure development for Incubation Centre	05-Feb-2018 1	25
Creation Institute Innovation Council	21-Nov-2018 1	10
NIRF 2019 Ranking	01-Jan-2019 30	250
Preparation for Participation in NIRF	03-Sep-2018 14	10
UGC-AICTE Expert Committee to review the functioning of review DIAT	23-Aug-2018 2	10
Preparation for visit of UGC-AICTE Expert Committee to review the functioning of review DIAT [as per UGC (Deemed to be University) Regulations 2016, mandatory intensive external review]	02-Jul-2018 30	250
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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!!!				
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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 :	3
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)
<ul style="list-style-type: none"> • DIAT participated in NIRF 201819 and was placed all India 57th Ranking for Engineering Category. • Institute organized lecture series known as DFLS, lectures were delivered by eminent personalities invited from the premier academic institute as well as from Research Organisation and Industries across the country. • Internal review meetings were conducted from time to time to ensure the academic activities, students' performance review, and department activities for timely assessment. • Institute encourages faculty members to participate in Industry oriented activities and apply for research projects/consultancy/internship for M Tech Students. • Syllabus revised for various programmes as per the current and future requirements. • Facilitate student to visit DRDO labs and Industry for carryout Master projects

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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
Smart classroom	Made in all departments
Protection of intellectual property	Faculty members were encouraged to apply for Patents and IPRs through the processing adopted by the DRDO
Scholarly publications	Publish research finding in peer-reviewed international journals of high repute
Promotion of Research activities	Encourage all faculty members to undertake research projects for applied technology from DRDO and other funding agencies
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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	22-Oct-2018
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2019
Date of Submission	13-Feb-2019
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>Database used in Finance, Academic section, Library, and Material Management Group (MMG): Academic section: All admission to M Tech programs is through online. Students need to complete the admission formality by filling up online admission forms. The academic section maintains a complete database of the number of applications received to admission to the M Tech, MS by Research, Ph.D. programs. Also applies to the complete records of the statutory body for its approval and extension. All academic activities of the institute are carried out using ERP software. Finance Section: Defence Institute of Advanced Technology being Unitary University, Financial records are fully computerized. Accounts have been maintained in a universally accepted accounting system in India i.e. Mercantile System and it is being maintained in Tally. Tally latest version is being used to maintain financial data. Administration: The administration maintains a database of all information related to faculty, staff, and other temporary employees. The majority of admin activities are carried out using ERP System and Biometric systems such as attendance of regular and temporary faculty and Staff members leave Management, temporary duty, Faculty and staff service records, etc. The MMG facilitates</p>

purchase and procurement of assets for the entire Institute, requisitioning of services, management accounting of assets, disposal condemnation of stores, etc. Specialized functions of tendering, evaluation of tenders, utilization of various banking instruments, etc are also performed by the MMG. MMG maintains complete records of inventory items, store items, and other asset details in the database using ERP software. MMG extensively uses an ERP system for processing all purchase and procurement assets. The library is fully automated with LIBSYS integrated, multiuser, and webcentric library management system. 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 databases 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
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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
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Mtech	Surfactant Technology (AC623)	02/07/2018
Mtech	Advanced Coatings (MCE 607)	02/07/2018
Mtech	Corrosion Characterization (MCE604)	02/07/2018
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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
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
Integrated Safety Engineering	02/07/2018	10
Safety, Health and Hazard Management	02/07/2018	8
Software Projects Management	02/07/2018	13
Food Standards and Safety Management	02/07/2018	8
4th NC3, a two-day national event	14/03/2019	100
Special lecture on New Energetic Materials by Prof. Michael Gozin of Tel Aviv University, Israel, and Visiting Professor at IIT Bombay.	29/01/2019	45
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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
Mtech	Defence related projects done at DIAT, DRDO Labs, Air force, Coast Guard, ISRO, IITs, IISc Bengaluru and various academic & Industries (such as CAIR, R&DE, Dighi, DRDL, NPOL Hyderabad Bharat Electronics, VSSC, ISRO, IITM, etc.	192
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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 their filled in a 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. Many inputs and think points were identified. Strengths, weaknesses, opportunities, and threats were identified through analysis. The overcome strategies were formed and instruction is given to implement for the next academic year. Teachers provide information as well as formal feedback 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 different issues related to the overall development. Based on the feedback, 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.

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	All specializations available in DIAT	398	2195	262
PhD or DPhil	All specializations available in DIAT	33	317	20
MS	by Research	5	2	2
MSc	Food Technology	25	10	7

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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
2018	0	262	0	44	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	Number of smart classrooms	E-resources and techniques used
44	44	16	9	9	8

[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)

When students join the university, the concerned HoD of the department gives an overall presentation about M.Tech program, credit system, pass criteria, project allocation, Industrial visit, collaborations, research areas, discipline, lab facility, introducing faculty, their area of research, etc. All M. Tech Students in the department are mentored by a Programme Coordinator (PC) who is appointed every year with due departmental process. The program coordinator will counsel and help students time to time-related to their academic as well as personal difficulties (at times) to boost their moral and make them stronger, lively, and professional. Special classes are conducted for the weaker students in each course to improve their understanding of the high standard courses that are taught at DIAT. This helps students to improve their concepts, expectations, and skills to cope up with the changes in their academic career at PG level.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
262	44	1:6

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	44	26	0	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
2018	Dr.K.P.Ray	Professor	IETE-Ram Lal Wadhwa Award 2018
2018	Dr.Balasubramanian K	Professor	8th National Award for Innovation in Polymeric Materials
2019	Dr Sangeeta Kale	Professor	Women Scientist Award conferred by

			"Sharada Shakti", a Maharashtra section of Vigyan Bharati
2019	Dr. PS Kulkarni	Assistant Professor	DRDO National Science Day Medal by DRDO
2018	Dr. Sumati Sidharth	Assistant Professor	Highly Commended Literati Award, Emerald Publishing
2018	Dr. CRS Kumar	Professor	Microsoft Innovative Educator Expert (MIEE) from Microsoft
2018	Dr. CRS Kumar	Professor	MIE Expert Project Showcase Award at Edu Days 2018, Microsoft.
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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
Mtech	M. Tech (2017-2019 batch)	III Sem Autumn 2018	05/12/2018	21/01/2019
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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
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
National	Dr Priyesh More	DST Inspire Faculty award	05/11/2018	DST, Govt of India
National	Dr AVR Murthy	DST Inspire Faculty award	05/11/2018	DST, Govt of India
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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
Development of SO _x / NO _x -derivatives gas sensors using nano-materials-functionalized ring resonators	1095	DAE-BRNS
Design of Low-cost and High resolution X-band Frequency Modulated Continuous Wave (FMCW) Radar	579	DIAT
Design of Low-cost and High resolution X-band Frequency Modulated Continuous Wave (FMCW) Radar	273	DIAT
Analysis and Design of 3D Printed Automated Leaf Spring	730	DIAT
Analysis and Design of 3D Printed Automated Leaf Spring	702	CSIR
JRF	240	DST - SERB
JRF	192	DST - SERB
JRF	730	DST - SERB
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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
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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
Reach for Gold: IP and Sports	IP Cell	26/04/2019
IPR Culture DRDO	IP Cell	29/01/2019
Protecting and Managing Intellectual Property Rights in DRDO	IP Cell	29/01/2019
Drafting of Patent Documents	IP Cell	29/01/2019
G.V. Krishna Kumar, Sc 'F', NSTL, DRDO, Vishakhapatnam	Applied Mathematics	18/01/2018
National workshop on "Small and wide angle X-ray scattering technique.	Materials Engineering	12/12/2018
International IP Day Celebration, theme was "Powering Change: Women in Innovation and Creativity" by Dr R. Hirwani, Tech. Advisor Head and Mr. P. Venkataraman, Scientist, URDIP-CSIR, Pune Mr. Anand Mahulkar, Patent Attorney	IP Cell	26/04/2018
4th National Conference on Advances in Mechanical Engineering Techniques (AMET 2018) jointly by DIAT MIT, Pune	Mechanical Engineering	29/03/2018
User Awareness Programme on J-Gate Database in collaboration with Informatics Pvt Ltd, Bangalore	Information Centre Library	06/12/2018
Author Workshop on Scholarly Writing and Publishing in association with Springer-Nature publisher on	Information Centre Library	20/11/2018

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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

No Data Entered/Not Applicable !!!

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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 !!!					
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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.	4
Computer Science Engg.	1
Mechanical Engg.	3
Applied Chemistry	8
Applied Physics	6
Electronics Engg.	2
Metallurgical and Materials Engineering	3

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	Mechanical Engg.	9	1.0
National	Technology Management	5	0
International	Technology Management	1	1.5
International	Applied Physics	29	2.5
National	Computer Science Engg.	1	0
International	Computer Science Engg.	21	1.82
International	Applied Chemistry	28	2.5
International	Aerospace Engg	7	2.15
National	Applied Mathematics	24	1.5
International	Metallurgical Materials Engg	65	4
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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
Aerospace Engg	10
Applied Chemistry	1
Computer Science Engg.	21

Applied Physics	2
Technology Management	1
Metallurgical Materials Engineering	10
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3.4.4 – Patents published/awarded/applied during the year

Patent Details	Patent status	Patent Number	Date of Award
A Process for Preparing Hypergolic Zwitterions from UDMH and Allyl Imidazole (Applied Chemistry)	Filed	201811023218	02/07/2018
A method of trust evaluation of a destination node by a source node by Sh. S Sundeep Desai, Dr. Manisha Nene	Filed	201821006776	13/08/2018
Amine Borane/ Caynoborane Zwitterions as hypergolic fuels (A process for preparing Hypergolic Zwitterions from UDMH and Allyl Imidazole) by inventors Dr. P S Kulkarni, Dr Shruti Aditya Karnik, Mr. Vikas Bhosale	Filed	201811023218	13/11/2018
Strips of Mercury Ion Detections by inventors Dr. P K Khanna, Dr. Priyesh Vilas More	Filed	201811029141	08/01/2019
Process for preparing a high density fuel by inventors Dr. A C Abhyankar et al Patent filled by DMSRDE	Filed	201811022569	04/03/2019
Skewed Grid Fin For Aerospace Applications by inventors Dr. Ajay Misra, Dr. Mahesh MS, Manish Tripathi	Filed	201811049281	15/05/2019

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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
Attended/Seminars/Workshops	7	11	2	0
Presented papers	6	5	0	0
Resource persons	10	39	5	1
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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)
No Data Entered/Not Applicable !!!			
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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
Dr.Unnikrishnan Applied Physics	Training Program on High Power Fibre Source	Bharat Electronics Ltd.(BEL)	564000	25
Dr.Unnikrishnan Applied Physics	Training Program on Resonator Design for Solid State Laser	Bharat Electronics Ltd.(BEL)	564000	25

Dr.Ajay Mishra Aerospace Engg	Training Program on Missile Technology	Bharat Electronics Ltd.(BEL)	588000	35
Dr.Ajay Mishra Aerospace Engg	Training Program on Missile Technology	Bharat Electronics Ltd.(BEL)	588000	35
Dr.K.P.Ray Electronics Engg	Training Program on VHDL- FPGA Design	Bharat Electronics Ltd.(BEL)	490800	24
Dr.Ajay Mishra Aerospace Engg.	Customized Course on Missile Technology	Brahmos Aerospace Pvt. Limited	1736400	48
Dr.P.K.Khanna, Applied Chemistry	Customized Course for Indian Ordnance Factory Officers-2018	National Academy of Defence Production, Nagpur	2312006	63
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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
As a part of social services activity, Dept of Materials Engg., DIAT organized a cleanliness awareness drive and Plantation of Swacha Bharat Abhiyan in Mahabaleshwar, Satara on 25th Oct 2018.	DIAT under the banner of NSS	6	60
Week Long 'Swachhta Drive' at DIAT Campus	DIAT Swachha Bharat Mission Committee Ministry of Youth Affairs	38	160
Blood donation camp was organized at Donage Village, Haveli, Pune on 27th Mar 2019.	NSS Centre, DIAT Red Cross India.	20	65
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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 !!!			
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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
Swachhta Bharat Mission	DIAT (DU), NSS Centre DIAT Swachh Bharat Mission Committee Dept. of Materials Engineering	Swacha Bharat Seva Abhiyan at Metgutad, Satara Dist. on 25th Oct 2018	8	40
Swachhta Bharat Mission, Govt of India	DIAT (DU) Swachha Bharat Mission Committee	Week Long 'Swachhta Drive' at DIAT Campus	38	168
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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
Research Project (wind tunnel testing)	DIAT, Pune and NAL, Bengaluru. Dr. Ganapati N Joshi	DIAT Grant-in-aid Project	548
Research Project	PK Khanna, HEMRL, Pune	ARMREB	730
Research Project	PK Khanna, DMSRDE, Kanpur	DMSRDE	730
Research Project	Dr DG Thakur & DRDO Lab	DRDO	1095
Research Project	Dr KP Ray & LRDE	DRDO	1095
Attenuation of Flowfield Unsteadiness due to Flare Induced Shock / Boundary Layer Interaction using/ Micro Vortex Generators	Dr. Ganapati N. Joshi DIAT & Dr. Shashi Bhushan Verma, NAL, Bengaluru	DST-SERB	1095
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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/	Duration From	Duration To	Participant
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		industry /research lab with contact details			
Projects	Thesis	IIT Madras, ISRO, DTRE, NAL, IITM, DRDL,	01/07/2018	30/06/2019	10
PhD research	Academic collaboration	IIT Kanpur	01/06/2018	31/07/2019	1
M.Tech Student/ Project Work	Project Work	<ul style="list-style-type: none"> • VSSC, Trivendrum • IIT Bombay, • IIT Madras • ADE, Bengaluru • IIT Hyderabad • Osmania University • ISRO • DRDO laboratories • Bharat Forge 	01/07/2018	30/04/2019	42
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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
Indian Institute of Information Technology (IIIT)	21/12/2018	Academic and Research collaboration in the areas of mutual interest	5
IITB-Monash Research Academy Monash , Australia,	25/01/2019	Academic and Research collaboration in the areas of mutual interest c) Joint events and activities.	1
Dassault Aviation, France	27/11/2019	Letter of Intent and MoU a) Academic and Research collaboration in the areas of mutual interest b) Joint events and activities.	0
Alvas Institute Of Engineering And Technology, MIJAR	23/01/2019	a) Academic and Research collaboration in the areas of mutual	5

		interest b) Exchange of academic information, scholarly information, materials, publications Research Projects.	
Institute of Technology Management (ITM)	12/02/2019	Academic and Research Collaboration	30
Indian Air Force and Centre For Air Power Studies (CAPS)	27/02/2019	a) Innovations in strategic. b) M Tech rules of DIAT. c) Research programmes in Defence Technology and Strategic Studies. Short/long duration courses.	5
National Technical Research Organization (NTRO)	15/04/2019	Academic and Research Collaboration	50
ATRIA University (ATRIA Educations), Bangalore	30/09/2019	a) Academic and Research collaboration in the areas of mutual interest b) Exchange of academic information, scholarly information, materials, publications Research Projects.	5
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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
50000000	50000000

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
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
View File	

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	7	2010

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	14754	8095367	16	120494	14770	8215861
Reference Books	43512	89157052	2	15625	43514	89172677
e-Books	339	2513889	0	0	339	2513889
Journals	0	0	103	306394	103	306394
e-Journals	0	0	2082	12473151	2082	12473151
Digital Database	0	0	8	5196541	8	5196541
CD & Video	1737	0	200	0	1937	0
Library Automation	2	2994476	0	0	2	2994476
Weeding (hard & soft)	4805	0	0	0	4805	0
Others (specify)	2027	0	200	0	2227	0
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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/	Others
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								GBPS)	
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
VC office Conference hall	https://www.diat.ac.in
Voice Recording System	https://www.diat.ac.in

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 facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
33000000	24300000	82000000	77000000

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)

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.

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

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
Financial Support from institution	Ph.D Institutional Scholarship	11	25000

Financial Support from Other Sources			
a) National	M.Tech.	122	12400
b) International	AICTE-INAE	1	15000
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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 implementation	Number of students enrolled	Agencies involved
User Awareness Programme on ProQuest: ABI/Inform Database	02/11/2018	25	ProQuest
User Awareness Programme on J-Gate Database	06/12/2018	50	Informatics Pvt Ltd, Bangalore
Author Workshop on Scholarly Writing and Publishing	20/11/2018	150	Springer-Nature publisher
Personal Counselling and Mentoring	13/11/2018	209	DIAT
MATLAB courses	21/08/2018	200	DRDO, GoI, India
Yoga and Meditation classes	10/07/2018	250	DIAT, GoI, India
Orientation Programme on Mathematics for all M.Tech newly joined 1st year students	11/06/2018	250	DIAT
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 passed in the comp. exam	Number of students 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
Bharat Forge Ltd Tech Mahindra Constelli, Hyderabad Accord, Bengaluru JivaScience, TV S Vector Institute Pvt Ltd Intel NXP Semiconductors Millennium Semiconductors	129	24	Bharat Electronics Ltd MathWorks Bosch Tango IT ADA, Bengaluru IIT Bombay	10	6
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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
Celebrated Hindi Divas and various competitions were organized (14th to 28th Sept 2018)	Institute Level	50
DIAT Musical Programme (5th October, 2018)	Institute Level	150
Techno Vision 2019 Technical Poster presentation Competition (29th March 2019)	Institute Level	50
Spandan19 (Sports events week)	Institute Level	100

Kriya (Cultural Events)	Institute Level	150
Prayag'19 (DIAT Cultural Fest) 30th March 2019	Inter Collegiate	250
No file uploaded.		

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/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
No Data Entered/Not Applicable !!!						
No file uploaded.						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Function of Student's Council: Student's council provides an opportunity to students to develop their leadership skills through active participation in college 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 Principal and management of college. 3. Maintaining discipline in college campus. 4. Maintaining college campus clean and green. 5. Participation in extension activities like Voters Awareness Programme, Swachh Bharat Abhiyan, Tree Planation, Yoga Day, Blood Donation etc. 6. They give their suggestions for purchase of books, magazines for library. The following committees have student representatives: 1. Students Council 2. Anti-Ragging Committee 3. Sports Committee 4. NSS Committee 5. Alumni Association 6. Innovation club 7. Anti-Sexual Harassment Cell 8. Annual Magazine Committee

Students in administration Our main focus is advising students about organizational matters regarding their studies, representation of student interests in commissions and conferences and the organization of events. As we are participants of many commissions, we represent student interest for instance whenever a new curriculum is created. Additionally, we represent the student body at the Study Conference and at 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 constantly planning events such as the welcome-week for freshmen, panel discussions, seminars, partys, etc. We additionally provide learning materials. If you have any material (transcripts etc.) to share with your colleagues, we are happy to accept it during our office hours. Students are engaged in a number of 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 wider student experience through surveys and other means (including consultation exercises)
- through engagement in key quality assurance and enhancement processes including reviews and course approval.
- The institute ensure 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 wider 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 wider experience at relevant points in their course of study • feedback is analysed 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 key 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 849 and the contribution is Rs.8,38,500/-.

5.4.2 – No. of registered Alumni:

256

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

256000

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)

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 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, 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
Admission of Students	Online applications were received from GATE qualified candidates for admission to different M Tech programs.
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.
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 /equipment. Faculty were also encouraged to attend professional development programs, 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 reimburse towards membership fees of professional bodies. Non - teaching

	<p>staff were also encouraged to attend training programs to update their knowledge and skill level.</p>
<p>Library, ICT and Physical Infrastructure / Instrumentation</p>	<p>Equipment Induction Programme was implemented this year onwards - DIAT went through up-gradation of laboratories. The plan was in a phased manner with the latest State - of - the Art equipment 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 endeavor 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.</p>
<p>Research and Development</p>	<p>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 are encouraged to seek research fundings from the govt and private agencies. The industry also is approached from time</p>

to time for undertaking consultancy as well as customized courses. The same is also organized for the public sector undertaking.

Examination and Evaluation

The role of the 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) / Ph.D. students registered with University. Implemented standard code of conduct of examination procedure to process the M.Tech thesis evaluation, processing of Ph.D. thesis for evaluation and viva-voce, a compilation of Marks, timely declaration of results and issue of marks statements, Presenting the results analysis report before Academic Council for its approval for the award of degree to the qualified M.Tech/ MS (by research) / Ph.D. 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, the conduct of examination, evaluation procedures, and the announcement of results. • A 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 the form of SGPA/CGPA. • Policy and implementation of providing Grace marks. • The provision of Retotalling is made.

Teaching and Learning

The teaching-learning process has extensive use of demonstration / practical sessions along with regular classroom 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.

Curriculum Development

DIAT regularly undertakes to develop

and upgrade the course curriculum to fulfill the needs of all stakeholders as well as the defence 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 programs to meet the requirements of the DRDO as well as Defence Industries of the country. The proposed syllabus by the dept. is vetted through the Postgraduate Committee (PGC) of DIAT before getting formal approval from the Academic Council (AC) of DIAT. Rules and regulations are updated as per the UGC norms as and when required.

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

E-governance area	Details
Finance and Accounts	<p>i. Defense Institute of Advanced Technology being single Unit University, Financial records are fully computerized. Accounts have been maintained in a 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. The finance department has adopted the e-payment system for all types of payments of the institutes. E-payment system is based on the three-tier authorization basis to bring accuracy. To bring transparency minimal cash transactions are carried out only in case of emergency.</p> <p>iii. Application fees and Semester fees are being collected ON-LINE basis using the platform provided by the State Bank of India. The hassle-free fee collection system is in place.</p> <p>iv. Finance Dept. has implemented the ERP system for Payroll processing, Online Payslip Income Tax as per 7th CPC.</p>

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
No Data Entered/Not Applicable !!!				
View File				

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)
2018	Training on Noting and Drafting	Noting and Drafting	03/11/2018	01/12/2018	33	90
2019	Training on service matters	Talk on service matters	12/04/2019	13/04/2019	28	87
2019	Talk on Procurement Manual 2016 by Sanjay Tandon, Director, ITM, Mussoorie	Talk on Procurement Manual 2016 by Sanjay Tandon, Director, ITM, Mussoorie	12/02/2019	12/02/2019	20	35
2018	Author Workshop on Scholarly Writing and Publishing in association with Springer-Nature publisher	Nil	20/11/2018	20/11/2018	20	5
2018	User Awareness Programme on J-Gate Database in collaboration with Informatics Pvt Ltd, Bangalore	User Awareness Programme on J-Gate Database in collaboration with Informatics Pvt. Ltd, Bangalore	06/12/2018	06/12/2018	15	5
2018	User Awareness Programme on ProQuest: ABI/Inform Database	Nil	02/11/2018	02/11/2018	20	0

in association with ProQuest

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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
No Data Entered/Not Applicable !!!				
View File				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
44	44	104	104

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>A. Government of India Welfare Schemes implemented by DIAT (DU)</p> <ul style="list-style-type: none"> • Increment in 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. • Financial support for participation and presence in international seminars, conferences, etc., once in three years. • Medical reimbursement facility • Health Center facility • Canteen • CSD facility • Government vehicle for private purpose on the standard rate • Allotment of Government residences <p>B. Welfare Schemes implemented by DIAT (DU)</p> <ul style="list-style-type: none"> • Provision of drinking water purifier • Celebration of Indian festival • Organizing cultural programmes • Establishment of employees cooperative 	<p>A. Government of India Welfare Schemes implemented by DIAT (DU)</p> <ul style="list-style-type: none"> • An incentive for acquiring higher qualification • Modular work station for clerical staff • Medical reimbursement facility • Health Center facility • Canteen • CSD facility • Government vehicle for private purpose on a standard rate • Allotment of Government residences <p>B. Welfare Schemes implemented by DIAT (DU)</p> <ul style="list-style-type: none"> • Provision of drinking water purifier • Celebration of Indian festival • Organizing cultural programmes • Establishment of employees cooperative society • Community Centre, Bank, Post Office, Grocery shop, Vegetable shops, Stationery shops, Refreshment Center etc., on the campus 	<ul style="list-style-type: none"> • Health Center facility • Orientation programme • Sports activity • Social activity • Cultural activity • Industrial visit • National laboratory visit • Community Centre, Bank, Post Office, Grocery shop, Vegetable shops, Stationary shops, Refreshment Center, etc., on the campus

society • Community Centre, Bank, Post Office, Grocery shop, Vegetable shops, Stationery shops, Refreshment Center, etc., in the campus

6.4 – Financial Management and Resource Mobilization

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

• Finance and Accounts i. Defence Institute of Advanced Technology being single Unit University, Financial records are fully computerized. Accounts have been maintained in a 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. ii. The finance department has adopted the e-payment system for all types of payments of the institutes. E-payment system is based on the three-tier authorization basis to bring accuracy. To bring transparency minimal cash transactions are carried out only in case of emergency. iii. Application fees and Semester fees are being collected ON-LINE basis using the platform provided by State Bank of India. Hassle-free fee collection system is in place. iv. Finance Dept. has implemented the ERP system for Payroll processing, Online Payslip Income Tax as per 7th CPC.

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
No Data Entered/Not Applicable !!!		
No file uploaded.		

6.4.3 – Total corpus fund generated

No Data Entered/Not Applicable !!!

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	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)

<ul style="list-style-type: none"> • Increase in the seats of all programs 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)

<ul style="list-style-type: none"> • Promoting supporting staff for Higher education • 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 Programes 2. NIRF Ranking 3. Re-constitution of IQAC committee 4. Revision of Syllabus based on the outcome of feedback from stack holders. 5. Regular meetings with academic and administrative staff members were conducted to prepare an action plan for the Institute. 6. To support the defence needs as industry requirements Inclusion of various specializations were implemented 7. Implementation of ERP system (Ekalvya) - Modules for Academic, Examination Section, Administration, Material Management (Store Purchase), Finance section. . 8. Academic and Administrative Audit of the Institute. 9. Biometric of attendance of all the subjects. 10. Enhancement of Wi-Fi connectivity of all classrooms. 11. Up-gradation of Research infrastructure and Laboratory renovations 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	No

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
No Data Entered/Not Applicable !!!					
View File					

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
Womens day celebration at POINTS Hostel	08/03/2019	08/03/2019	30	10

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
<p>The Institute has an Environment Committee who looks after the regular affairs of sustainability and environmental consciousness within the campus and its premises. In this regard, following practices were adopted by the Institute.</p> <p>Environment Initiative: The DIAT is surrounded with lush green campus. New saplings/plants are grown in the entre campus to reduce the carbon footprints. The Institute conducts a green audit through an environment committee. Guest faculty delivers lectures on the environment. Faculty members and students of the institute were actively in moving to various places for enhancing the awareness of environment through planting trees in schools and Panchayat offices. Departmental heads are given the support for procuring sapling and for traveling within Maharashtra for such initiative. Swachh Bharat Mission: To</p>

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 gives lessons on solid and liquid waste management. Students were oriented for cleaning local villages and school premises during weekends. All the students were given option to join NSS center for carrying out Swachh Bharat Mission of the Institute. 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 entire Institute. Provisions were given to the students for commuting from hostel to institute using cycle. Use of renewable energy: Bio-gas 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 bio-gas plants are under installation. Solar power is used in the campus and is being planned to be utilized for cooking purposes. Several faculties are pursuing in research in the field of Solar Cells. The cooking at the cafeteria were completely supported by Biogas plant. Water harvesting: We use spray system for watering the plants and harvest rain water for gardening. We conserve a lot of water by use of fertilizer for plantation. Sprinkler is used in entire campus for watering saplings and plants. Every department was given designated garden for maintenance and enriching a green campus. Vertical farming was initiated by students in the hostel. 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 e-waste generated by the institute was condemned regularly. The plastics waste were collected and given to the local vendor for effective recycling. Carbon neutrality Hazardous waste management E-waste management

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

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
No Data Entered/Not Applicable !!!							
View File							

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
128th birth anniversary celebration of Bharat Ratna Dr. Babasaheb Ambedkar	15/04/2019	15/04/2019	100
International Day of YOGA	21/06/2019	21/06/2019	75
Vigilance Awareness Week and Integrity pledge taking Ceremony	02/11/2018	02/11/2018	150
Celebrated Gandhi Jayanti and Plantation Drive	02/10/2018	02/10/2018	200
Heartfulness Meditation programme	13/06/2018	13/06/2018	30
Swachh Bharat Abhiyan to promote the values and ethics of Mahatma Gandhi	15/01/2019	15/01/2019	200
Sadbhavana Divas and Sadbhavana Pledge taking Ceremony	20/08/2018	20/08/2018	75
NSS Special Camp - 2 at Gram Panchayat, Donje Village, Haveli Taluka, Pune District	25/03/2019	29/03/2019	80
Celebrated Hindi Divas and various competitions were organized	14/09/2018	28/09/2018	50
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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 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

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 ongoing time to time and industry interaction expert lecture/workshop/brainstorming sessions have been organized by this cell to encourage innovation and entrepreneurship at DIAT. 2. Publications are encouraged with reputed publishers like IEEE, ASME, ASM, AAS, RSC, IOP, ACS, Elsevier, Nature, SN etc 3. Cultural Fest - DIAT ensures the overall development of the students by encouraging them to hold a cultural and sports fest every year and to showcase their talent. 4. Conduct of DIAT Distinguished Lecture Series - DIAT invites distinguished speakers from varied fields to deliver a talk and interact with the faculty and students every month 5. Open Book exam - DIAT encourages the conduct of open book exam to an 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 6. Proper investigations and disposal of the grievance 7. Timely promotions of teaching and non-teaching staff Promotion of teaching, learning, evaluation and research activities through computer-aided methods 8. Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link 9. Timely Convocation - DIAT has its convocation timely every year. This has a very good effort on the moral of the standards of the students. 10. Timely publication of Annual Reports - The Annual Report of every academic year is 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

1. We will enrich education in faculty members, enhancing the structure and comprehensiveness of educational curricula at both levels and raising the mobility of students. We will also facilitate participation in short- and long-term courses at DIAT. 2. In the faculty members, we will deliver education that equips each student with broad outlooks, academic sophistication, language proficiency, and fundamental knowledge in their field of specialization. For this purpose we will devise means such as small classes and build finely-tuned educational systems. 3. In DIAT, we will pursue the highest global standards of research and endeavour to foster motivated and creative researchers capable of playing active roles internationally. We will also work to cultivate high-level professionals. 4. We will welcome talented researchers regardless of age, gender, or nationality, and create an environment that brings out the best in these researchers in both research and education. 5. We will advance education and research that involves graduate schools, faculties, research institutes and centres working in concert and tackling new fields of academic endeavour. For this purpose we will adopt flexible approaches to reorganization, amalgamation and establishment of new centres within DIAT. 6. We will develop support structures across all areas of research and education at DIAT, and enhance not only research and teaching facilities, but also library systems and information technology infrastructure, welfare services, and other organizations and facilities that support research and education.