



Yearly Status Report - 2015-2016

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. Surendra Pal
Designation	Vice Chancellor
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	02024304001
Mobile no.	8275065951
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. A. C. Abhyankar																		
Phone no/Alternate Phone no.	02024304311																		
Mobile no.	8806289111																		
Registered Email	iqac@diat.ac.in																		
Alternate Email	ashutoshabhyankar@gmail.com																		
3. Website Address																			
Web-link of the AQAR: (Previous Academic Year)	https://www.diat.ac.in/about-igac/																		
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/admission/academic-calendar/																		
5. Accrediation Details																			
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>B</td> <td>2.86</td> <td>2015</td> <td>26-Jun-2015</td> <td>25-Jun-2020</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	B	2.86	2015	26-Jun-2015	25-Jun-2020
Cycle	Grade	CGPA	Year of Accrediation	Validity															
				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																
NIRF 2016 Ranking	04-Jan-2016 5		250																

Preparation for Participation in NIRF	02-Nov-2015 90	250
NBA	05-Feb-2016 2	150
Preparation for NBA	01-Jul-2015 365	150
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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
Nil	Nil	Nil	2015 0	0
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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 :

2

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)

- NBA for five M Tech Programs
- NIRF ranking
- Syllabus revision /upgradation
- Inclusion of specializations
- Facilitate student to visit DRDO labs and Industry to carry out M Tech projects
- Enhanced use of ICT in teaching and learning process

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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				
Industry-Academic Interaction /Collaborations	Achieved				
Research Facilities	Achieved				
Inclusion of specializations	Achieved				
Syllabus revision / up-gradation	Achieved				
Smart classroom	Made in all department				
View File					
14. Whether AQAR was placed before statutory body ?	Yes				
<table border="1"> <thead> <tr> <th>Name of Statutory Body</th> <th>Meeting Date</th> </tr> </thead> <tbody> <tr> <td>Board of Management</td> <td>05-Jan-2016</td> </tr> </tbody> </table>		Name of Statutory Body	Meeting Date	Board of Management	05-Jan-2016
Name of Statutory Body	Meeting Date				
Board of Management	05-Jan-2016				
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	2016				
Date of Submission	08-Feb-2016				
17. Does the Institution have Management Information System ?	Yes				
If yes, give a brief descripton and a list of modules currently operational (maximum 500 words)	The database used in Finance, Academic section, Library and Material Management Group (MMG) Academic section: 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 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 admin uses Biometric systems such as attendance of regular and temporary faculty Staff members and maintains all records of leave, temporary duty, faculty and staff service records, etc. The MMG facilitates 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 and uses Tally to process the bills. 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
Mtech	GM	M.Tech in Aerospace Engineering (Guided Missiles)	01/12/2015

Mtech	AA	M.Tech in Aerospace Engineering (Air Armaments)	01/12/2015
Mtech	AC	M.Tech in Chemical Science and Technology	01/10/2015
Mtech	M&SC	M.Tech in Modeling and Simulation	01/12/2015
Mtech	LEO	M.Tech in Sensor Technology (Laser and Electro - Optics)	01/04/2015
Mtech	ST	M.Tech in Sensor Technology	01/04/2015
Mtech	C&S	M.Tech in Cyber Security	01/05/2015
Mtech	SPC	M.Tech in Signal Processing and Communication	01/05/2015
Mtech	R&C	M.Tech in Radar and Communications	01/05/2015
Mtech	CV	M.Tech in Combat Vehicles (Mechanical Engineering)	02/11/2015
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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
Mtech	All programme in S.N.1.1.1	23/04/2016	Ethical Hacking	23/04/2016
Mtech	All programme in S.N.1.1.1	11/04/2016	Java and Android	11/04/2016
Mtech	All programme in S.N.1.1.1	31/08/2015	Cryptology and Information Security	31/08/2015
Mtech	All programme in S.N.1.1.1	15/10/2015	Hands-on Training on Data Mining Tools	15/10/2015
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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	M.Tech in Chemical	30/04/2015

	Science and Technology	
Mtech	M Tech in Mechanical Engg, Specialization in Robotics	01/07/2015
Mtech	M.Tech in Signal Processing and Communications (Wireless Networks and Applications)	01/07/2015
Mtech	M.Tech in Signal Processing and Communications (Navigation Systems)	01/07/2015
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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
Mtech	All M Tech Programmes	01/07/2015

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
Foundations of Imaging Science and Technology	01/07/2015	12
Nano/Micro Mechanical Characterization of Coating through instrumentation Indentation/Scratch Technique (ME)	20/08/2015	16
National workshop on Model based system Engg. for Armament and combat vehicles technology, For faculties and students (ME)	06/05/2015	100
Special lecture on stealth signature management for Marine students (ME)	29/04/2015	10
Foundations of Imaging Science and Technology (AP)	01/07/2015	12
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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	Projects at DIAT, DRDO laboratories and various industries	44

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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 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 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, Industries) 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	350	3900	119
PhD or DPhil	All specializations	35	553	30

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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
2015	0	119	0	41	41

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
41	41	1	9	9	3

[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 faculty are deeply involved in mentoring the students and prepare them for their project presentation as well as for their interview at different places with Govt. as well as 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 organized each year, and students along with faculty mentors participate and showcase their talent. Dept 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. All M Tech and Ph.D. programs are mentored by respective program coordinators 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 their local guardian and mentor throughout their academic tenure. Students are encouraged to do internship in industries, DPSU's, PSU, DRDO labs etc. 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
119	41	1:3

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	41	29	1	36

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
2016	Dr. Surendra Pal	Vice Chancellor	Microwave Pioneer Award 2016 by International Symposium on Microwaves (ISM-16)
2016	Prof Sangeeta Kale	Professor	INSA Teacher Award, by Indian National Science Academy (INSA), New Delhi.
2016	Dr. Surendra Pal	Vice Chancellor	100 Most Influential Vice Chancellor for 2016 award" by 5th World

			Education Congress, Mumbai
2016	Dr. Krishna Naik	Assistant Professor	Best Teacher, DIAT
2016	Dr. Tejashree Bhawe	Assistant Professor	DRDO National Science Day Oration Medal
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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 (2014-2016 batch)	III Sem Autumn 2015	18/12/2015	05/01/2016
Mtech	M. Tech (2015-2017 batch)	ISem Autumn 2015	07/12/2015	05/01/2016
PhD or DPhil	Ph.D	Autumn 2015	07/12/2015	05/01/2016
Mtech	M. Tech (2014-2016 batch)	IV Sem Spring 2016	11/05/2016	18/05/2016
Mtech	M. Tech (2015-2017 batch)	II Sem Spring 2016	27/05/2016	12/07/2016
PhD or DPhil	Ph.D	Spring 2016	27/05/2016	18/05/2016
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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	495	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://www.diat.ac.in/query-from-naac/>

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
M. Tech 2014-2016 batch	Mtech	Sensor Technology	8	8	100

M. Tech 2014-2016 batch	Mtech	Electronics Engineering (Radar and Communicatio ns)	8	8	100
M. Tech 2014-2016 batch	Mtech	Computer science & Engineering (cyber Security)	15	15	100
M. Tech 2014-2016 batch	Mtech	Aerospace Engg (GM)	7	7	100
M. Tech 2014-2016 batch	Mtech	Aerospace Engg. (AA)	5	5	100
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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://www.diat.ac.in/query-from-naac/>

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	01/07/2015	DST, Govt of India
National	Dr AVR Murthy	DST Inspire Faculty award	16/07/2015	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
JRF - 1 no. Non linear Finite Element Analysis of Armoured Amphibious Dozer (AAD) Hull	288	VRDE
JRF - 1no. Project Titled "Developing Strategies for robust functional hybrid nanomaterials for solar cells: Synthesis, film formation and device fabrication"	411	SERB
RA-1no. DRDO-DIAT Nano Project	797	DRDO

SRF-1 no. DRDO-DIAT Nano Project	1045	DRDO
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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
Major Projects	2190	ER-IPR, DRDO	430000000	100000000
Major Projects	1826	DST	3500000	1900000
Major Projects	549	DRDO - VRDE	1000000	720000
Major Projects	730	DRDO - ARDB	1310000	925000
Major Projects	796	AR DB (DRDO-IC-CFD)	2827000	1954000
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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 2015	Applied Chemistry	14/01/2015
National conference on Advances in Mechanical Engg.	Mechanical Engg.	12/03/2015
Centre for Air Power Studies (CAPS) workshop on Management of the Technology Era in Defence	Technology Management	27/10/2015
Indian National Association of Engineering (INAE) Annual Convention 2015.	DIAT	11/12/2015
International workshop Championship (Robotryst-2016) in collaboration with Robosapiens Pvt. Ltd IIT, Delhi	Mechanical Engg.	22/02/2016
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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 Application Oriented research Paper	Dr Sunita Dhavale	IETE-M N Saha Memorial Award -2016	09/05/2016	Best Application Oriented Research Pap
Best Higher Education Institute on Maharashtra/	DIAT	CMAI Association of India	12/01/2016	Innovation in Education

Innovative Category				
Innovative Educational Leadership Award -2016	DIAT	DNA Stars of the Industry Group, Mumbai	13/03/2016	Innovation in Education
INSA Teacher Award	Prof. Sangeeta Kale	INSA	10/02/2016	Teachers who have inspired students to take upcareers in Science Technology
Best Paper Award	Sq. Ldr. Praveen Kumar	2nd IEEE International Conf. on Engineering Tech. (ICETECH), Coimbatore, TN	04/01/2016	Best research Paper (Signal Processing)
6th National Award for Technological Innovation	Dr Balasubramanian K	Ministry of Chemicals and Fertilizers, GoI.	06/07/2015	Innovation in Polymer waste management Recycling Technology
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
Nil	Nil	Nil	Nil	Nil	01/12/2016
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.	2
Applied Physics	3
Computer Science Engg.	2
Mechanical Engg.	6
Applied Mathematics	1
Applied Chemistry	3
Materials Engg	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	Applied Chemistry	21	3
International	Aerospace Engg.	1	0
International	Applied Mathematics	16	2.5

National	Computer Science Engg.	2	0
International	Computer Science Engg.	8	1
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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
Applied Chemistry	2
Aerospace Engg.	9
Applied Mathematics	0
Applied Physics	4
Computer Science Engg.	24
Aerospace Engg.	9
Electronics Engg.	5
Technology Management	4
Materials Engineering	3
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3.4.4 – Patents published/awarded/applied during the year

Patent Details	Patent status	Patent Number	Date of Award
Panigrahi, S.K. and Tyagi, S., Bearing Fault Detector	Filed	201621003344	27/05/2016
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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
Pd-catalyzed Reigoselective Arylation on C-5 position of N-aryl 1,2,3-Triazoles	K. D. B. Yamajala, M. Patil, S. Banerjee	J. Org. Chem.	2015	7	DIAT	7
PVP coated copper-iron oxide nanocomposite as an efficient catalyst	N. Joshi and S. Banerjee	Tetrahedron Lett	2015	0	DIAT	0

for Click reactions						
Effect of precursor on the formation of different phases of iron oxide nanoparticles	D. Kumar, H. Singh, S. Jouen, B. Hannover and S. Banerjee	RSC Adv.	2015	2	DIAT	1
Recent applications of ring-rearrangement metathesis in organic synthesis	S Kotha, M Meshram, P Khedkar, S Banerjee, D Deodhar	Beilstein Journal of Organic Chemistry	2015	0	DIAT, IIT Bombay	0
Diversity oriented approach to polycyclics via cross-enyne metathesis and Diels-Alder reaction as key steps	S. Kotha, V Seema, S Banerjee, MK Dipak	Journal of Chemical Sciences	2015	1	DIAT, IIT Bombay	1

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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
All publications of DIAT	Nil	Nil	2015	24	332	DIAT

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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	5	12	0	1
Presented papers	8	0	0	0
Resource persons	7	16	2	0

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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)
Nil	Nil	Nil	0
View File			

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.P.K.Khanna, Applied Chemistry	Customized Course for Indian Ordnance Factory Officers	National Academy of Defence Production, Nagpur	3493425	50
Dr.Ajay Mishra Aerospace Engg.	Customized Course on Missile Technology	Brahmos Aerospace Pvt.Ltd.	1447368	19
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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
Blood Donation Camp	Ammucare ,Pune	10	40
Swachhta Drive	DIAT Swachha Bharat Mission Committee	38	108
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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
Nil	Nil	Nil	0
View File			

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
Swachhata Pakhwada 1st - 30th Sept 2015	DIAT (DU) Swachha Bharat Mission Committee	Cleanliness of workshops assembly areas, electrical stations etc.	6	25

Swachhata Pakhwada 1st-30th Aug 2015	DIAT (DU) Swachha Bharat Mission Committee	Cleanliness of areas surrounding the outside Lab perimeter.	18	69
Swachhata Pakhwada 1st - 30th July 2015	DIAT (DU) Swachha Bharat Mission Committee	Cleanliness of food/cooking facility - Canteen Mess.	5	15
Swachhata Pakhwada 1st - 30th June 2015	DIAT (DU) Swachha Bharat Mission Committee	Talk on energy conservation	4	28
Swachhata Pakhwada 1st - 30th May 2015	DIAT (DU) Swachha Bharat Mission Committee	Poster Essay Writing Competition.	3	14
Swachhata Pakhwada 1st - 30th Apr 2015	DIAT (DU) Swachha Bharat Mission Committee	Condemnation of Vehicle	3	10
Swachhata Pakhwada 1st - 31st Mar 2015	DIAT (DU) Swachha Bharat Mission Committee	Essay Competition	3	15
Swachhata Pakhwada 1st - 28th February 2015	DIAT (DU) Swachha Bharat Mission Committee	Elimination of open defecation. 2. Eradication of manual scavenging. 3. Collection and scientific disposal of solid waste. 4. Weeding out of unwanted documents. 5. Generated the awareness among DIAT fraternity clean India Mission.	3	32
Swachhata Pakhwada 1st -31st Jan 2015	DIAT (DU) Swachha Bharat Mission Committee	Medical Talk on Self Upkeep	4	45
Swachhta Bharat Mission, Government of India	DIAT (DU) Swachha Bharat Mission Committee	Week Long 'Swachhta Drive'	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
Physical and Chemical principles of Quantum Dot/Metal graphene new nanocomposites for photonics and electronic	Prof PK Khanna & Dr A Kukhta, Belarus	Indo - Belarus, DST	730
Computational analysis of two-Dimensional blood flows through asymmetric catheterized stenotic tapered artery.	Dr.D Srikanth, DIAT & Prof. D Srinivas Acharya, NITW	CSIR	1095
Analysis and Design of 3D Printed Automobile Leaf Spring	PI: Prof. Balasubramanian Kandasubramanian, & Dr. Sunil Nimje, DIAT	DIAT	730
Development of SOx/NOx-derivatives gas sensors using nanomaterial-functionalized ring resonators.	Prof. Sangeeta Kale & Dr. Shaibal Banerjee DIAT (DU),	DAE-BRNS	1095
Theoretical and Experimental investigations of induced magnetism in Graphene Nanoribbons (GNRs) upon conjugation	Suwarna Datar, DIAT& Kavita Joshi, NCL,	DST Nano mission	1095
Leveraging Deep Learning Models for Human Activity Recognition	Dr. Upasna Singh	Nil	730
Design of Wideband HF Antennas	Prof K P Ray & Dr. A Bazil Raj	LRDE, DRDO	558
Photonics Radar	Prof K P Ray & Dr. A Bazil Raj	DST, SERB	1095
View File			

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	Duration From	Duration To	Participant

		details			
Internship	B Tech M. Tech	IIT BHU, IIT Roorkee, Pune University, Fergusson college, COEP, CIPET	01/05/2016	30/06/2016	12
Projects	M Tech, MS by Research, PhD Work	ARDE, NMRL, DMRL, HEMRL, RD Engg, CWPRS, CAIR, BEL, Bharat Forge,	15/07/2015	30/04/2016	42
View File					

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
FiberOptika Technologies Pvt. Ltd. Mumbai, Maharashtra,	08/06/2015	R D projects in the field of Fiber Optics sensing networking applications. a) Academic and Research collaboration in the areas of mutual interest b) Exchange of academic information, scholarly information, materials, publications	2
National Defence Academy (NDA) Pune, Maharashtra,	28/10/2015	Academic courses and research programmes: Sponsor their Two candidates for M. Tech programmes	20
Space Application Centre, Ahmedabad, Gujarat	12/04/2016	IRNSS Navigation Receiver Field Trial and Data Collection	1
Bharat Forge Limited (Agreement / MoU under Progress), Pune	03/05/2016	Academic courses and research programmes: Sponsor their Two candidates for M. Tech programmes	2
TITLIS Engg. Projects Pvt. Ltd,	20/05/2016	Exchange of students/employees	5

Vadodara, Gujarat	for training/ higher education. a) Joint RD in applied futuristic areas of Science and Technology. b) Joint RD in the field of catalysis for development of products/process. c) Joint RD in the field of energy product
View File	

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
1185	1007

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Newly Added
Seminar Halls	Existing
Value of the equipment purchased during the year (rs. in lakhs)	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 partially)	Version	Year of automation
LibSys	Fully	7	2010

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	12565	628500	696	5953353	13261	6581853
Reference Books	42254	84421300	255	1180441	42509	85601741
e-Books	339	2513889	0	0	339	2513889
Journals	0	0	141	927579	141	927579
e-Journals	0	0	1852	15657153	1852	15657153
Digital Database	0	0	8	3962650	8	3962650

CD & Video	1438	0	91	0	1529	0
Library Automation	1	494675	0	91274	1	585949
Weeding (hard & soft)	4805	0	0	0	4805	0
Others (specify)	1734	0	91	0	1825	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
Nil	Nil	Nil	01/12/2016

[View File](#)

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	37	2	2	1	1	1	1	100	8
Added	0	0	0	0	0	0	0	0	0
Total	37	2	2	1	1	1	1	100	8

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
MATLAB	https://www.diat.ac.in
Windows Server 2008	https://www.diat.ac.in
CLRSTREAM	https://www.diat.ac.in
Net protector	https://www.diat.ac.in
MITHI Software	https://www.diat.ac.in
Wildcard SSL Certificate	https://www.diat.ac.in
Cyberoam UTM.	https://www.diat.ac.in
Balasai Net	https://www.diat.ac.in
ERNET	https://www.diat.ac.in
Academic institutions.	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
425	424	650	549

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 proposals for construction of new academic building, library, class room and electrical appliances are submitted by Estate Works Officer (EWO), DIAT to DRDO headquarter with SOC along with proper justification and supporting documents. DRDO HQ constitutes Board of Officers (BOO) and on the recommendation of the BOO, the competent authority may consider the proposal for sanction. The sanctioned works are either executed 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/query-from-naac/>

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	15	18000
Financial Support from Other Sources			
a) National	M.Tech	39	12400
b) International	Nil	0	0
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 implementation	Number of students enrolled	Agencies involved
DFLS lecture series	09/07/2015	320	DIAT
Personal Counselling and Mentoring	14/07/2016	119	DIAT
MatLab courses	06/01/2016	320	DRDO, GoI, India
Yoga and Meditation	08/07/2015	320	DRDO, GoI, India

classes			
FEM	01/07/2015	300	DRDO, GoI, India
View File			

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
2015	Nil	0	0	0	0
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
Tata Consultancy Bramhos BDL	70	9	BDL	15	2
View File					

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
2016	1	M.Tech	CSE	DIAT	PhD
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
NET	0
SET	0
SLET	0
GATE	250
GMAT	0
CAT	0

GRE	0
TOFEL	2
View File	

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

Activity	Level	Number of Participants
Football	District Level	20
Badminton	District Level	10
Eklavya Sports Meet 2016	Institute Level	100
Since 2015 the University is active in sport and related activities both indoor and outdoor. Like football, badminton, volley ball, basketball, chess, carom etc. Since 2016, The University is actives.	Both hostel and Day scholars	300
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/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2015	Nil	National	0	0	0	Nil
View File						

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 Plantation, 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. Alumni Association 5. Anti-Sexual Harassment Cell 6. 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 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 discussion 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 2016 is 245, and the contribution is Rs.234500.

5.4.2 – No. of registered Alumni:

117

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

111500

5.4.4 – Meetings/activities organized by Alumni Association :

One

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) HoDs are empowered to sanction Rs. 15,000/- cash purchase of the items f) HoDs are empowered to approve the leave of their staff working under them g) In service departments sub-ordinate officers have been authorized to dispose of many routine cases h)

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 candidate 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 /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 reimburse towards membership fee of professional bodies. Non - teaching staffs were also encouraged attending training programs to update their knowledge and skill level.

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 MTech students.

Research and Development

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

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.

Teaching and Learning

Teaching learning process has an extensive use of demonstration /

	<p>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.</p>
Curriculum Development	<p>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.</p>

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

E-governance area	Details
Planning and Development	<p>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.</p> <p>2. POINTS - 20 programme 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.</p> <p>3. Few administrative changes were implemented: RO 30/2015 Dated: 15th July 2015 - Remuneration to visiting faculty/adjunct faculty/guest lecturers RO 40/2015 Dated: 09th Nov 2015 - Primary and secondary duties of faculty and officers including roles in various committees / other bodies RO 34/2015 Dated: 02nd Sept 2015 - AIDE memoire for indenting and procurement</p>

	<p>activities at DIAT, Pune. RO 33/2015 Dated: 27th Aug 2015 - Review and extension of research projects at DIAT. RO 30/2015 Dated: 15th July 2015 - Internal audit committee on procurement. RO 27/2015 Dated: 07th July 2015 - Guidelines for appointment of adjunct faculty. RO 25/2015 Dated: 23rd June 2015 - Policy for conduct of customized courses by DIAT (DU).</p>
Finance and Accounts	<p>i. Defence Institute of Advanced Technology being 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 latest version is being used to maintain financial data. 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 collected ON-LINE basis using the platform provided by State Bank of India. Hassel free fee collection system is in place.</p>
Student Admission and Support	<p>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.</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
2015	Dr Arun Mishra	Short Term Programme Cryptography, SAG, New Delhi	SAG, New Delhi	10000
2015	Dr Upasna Singh	FDP on	IEEE Pune	0

		Mathematical Modelling and Statistical Analysis in Computation, IEEE Pune Chapter	Chapter	
2015	Ms, Deepti Vidyarthi	ACM Third International Symposium on Women in Computing Informatics, Kochi	ACM Third International Symposium, Kochi	15000
2016	Dr Upasna Singh	Two days workshop on "Sixth Sense Robotics", DIAT.	DIAT	0
2016	Dr. H.S. Panda	Short course on Flexible electronics July 4th-8th, 2016, IIT Kanpur	IIT Kanpur	5000
2015	Dr. Debasish Pradhan	International Conference on Current Trends in PDEs: Theory Computations, Department of Mathematics, South Asian University, New Delhi, December 28 30, 2015	South Asian University, New Delhi	10000
2015	Dr. Shaibal Banerjee	National Conference on Recent Advancements in Chemical Sciences (RAICS-2015)" at MNIT Jaipur, 21-23rd Aug, 2015	MNIT Jaipur	15000
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)
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2015	CEP on Laser and its applications	Nil	05/10/2015	09/10/2015	10	0
2016	Talk on "Skill Development" by Lt. Gen (Dr.) SP Kochhar, C EO-Telecom Sector Skill Council	Talk on "Skill Development" by Lt. Gen (Dr.) SP Kochhar, C EO-Telecom Sector Skill Council	03/05/2016	03/05/2016	25	30
View File						

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
Orientation course at SPPU, Pune	1	18/04/2016	15/05/2016	30
Attend short course at WTC, Bangalore	1	03/02/2016	07/02/2016	5
FDP on 'Mathematical Modelling and Statistical Analysis in Computation' at MAEER's MITCOE, Pune	1	04/06/2015	13/06/2015	10
Training Programme on 'Cryptography and Information Security' at SAG Delhi	1	30/08/2015	11/09/2015	12
Orientation Course	1	30/08/2015	30/09/2015	30
View File				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
40	40	112	112

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
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<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 society • Community Centre, Bank, Post Office, Grocery shop, Vegetable shops, Stationery shops, Refreshment Center, etc., in the campus 	<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, Stationery shops, Refreshment Center, etc., on the campus • Financial support for attending national and international conferences
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6.4 – Financial Management and Resource Mobilization

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

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.

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
Nil	0	Nil
View File		

6.4.3 – Total corpus fund generated

28170322

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 programmes for admission • Student results analyzed for improving further • Addition of value added courses and interdisciplinary courses
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6.5.4 – Development programmes for support staff (at least three)

<ul style="list-style-type: none"> • Staffs orientation in different department • Training on letter writing/drafting etc • Administrative training
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6.5.5 – Post Accreditation initiative(s) (mention at least three)

<p>1. NBA accreditation of 5 M Tech Programes 2. NIRF Ranking 3. Revision of Syllabus based on the outcome of feedback from stack holders. 4. Regular meetings with academic and administrative staff members were conducted to prepare an action plan for the Institute. 5. To support the defence needs as industry requirements Inclusion of various specializations were implemented 6. Academic and Administrative Audit of the Institute. 7. Biometric of attendance of all the subjects. 8. Enhancement of Wi-Fi connectivity of all classrooms. 9. Up-gradation of Research infrastructure and Laboratory renovations</p>

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
2015	NBA	05/02/2016	05/02/2016	05/02/2016	5

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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
Kriya Cultural Fest (including donation for cyclone Relief)	01/07/2015	30/06/2016	30	75

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 environmental consciousness within the campus and its premises. In this regard, following practices were adopted by the Institute.

Environment Initiative: The DIAT is surrounded with lush green campus. New saplings/plants are grown in the entire 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 were always given the responsibility for planting more saplings. **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 gives lessons on solid and liquid waste management. During the weekends students were given the responsibility for cleaning the premises of hostel and its surroundings.

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. The students are encouraged to sit in library for their studies and not in their rooms after college working hours. Every room in the hostel has automatic cut off power unit for Geysers. **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 research in the field of Solar Cells. The newly built multi-storey building has the state of the art solar unit for bathing /washing. **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. Drip irrigation is practiced for watering plants 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. **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
2015	0	0	01/12/2016	0	NA	NA	0
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
The Central Civil Services (Conduct) Rules	01/07/2015	The Central Civil Services (Conduct) Rules, 1964 as amended from time to time is applicable mutatis mutandis to both teaching and Non-Teaching Officers staff of the Institute.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
153rd Birth Anniversary of Swami Vivekananda's Birth Anniversary	12/01/2016	12/01/2016	85
125th birth anniversary celebration of Bharat Ratna Dr. Babasaheb Ambedkar	13/04/2016	13/04/2016	90
Awareness Program on Women Harassment at Workplace by Mrs. Rama Sarode, Advocate and Sociologist, SAHYOG, NGO, Pune	13/04/2015	13/04/2015	55
Gandhi Jayanti celebration with Swachh Bharat Abhiyan to promote the values and ethics of Mahatma	02/10/2015	02/10/2015	71

Gandhi			
National Integrity day	19/11/2015	19/11/2015	55
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Swatch 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 are organized • 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.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. 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 2. 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 3. Timely promotions of teaching and non-teaching staff Promotion of teaching, learning, evaluation and research activities through computer-aided methods. 4. Various green initiatives for conservation of energy 5. Publications in peer reviewed journals by faculty of all departments. 6. Encouraging Filing of patents by students, staffs and faculty of all the departments. 7. Cultural 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 9. Timely Convocation - DIAT has its convocation timely every year. This has a very good effort on the moral of the students. 10. Timely publication of Annual Reports - The Annual Report of every academic year is ready by Jul-Aug of following year to be passed in the parliament. 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/query-from-naac/>

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 the 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 the 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/query-from-naac/>

8.Future Plans of Actions for Next Academic Year

- NAAC re-accreditation and NBA accreditation for remaining programs and also efforts for the accreditations by various agencies at National and International levels
- NIRF ranking
- Efforts for the accreditations by various national and international agencies
- Improvement of training and placement of students.
- Research infrastructure development / up-gradation
- Revisiting of the existing course curriculum
- Efforts for the generation of revenue through sponsored research projects to achieve self-sustainability.
- Up-gradation of Research infrastructure and Laboratory renovations
- Organizing the faculty quality enhancement program.
- Complete digitization of institute