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(सम विश्वविद्यालय), गिरिनगर, पुणे - 411025  
**Defence Institute of Advanced Technology**  
(Deemed University), **Girinagar, Pune-25**  
(रक्षा अनुसंधान एवं विकास संगठन से पूर्णवित्तीय पोषित  
स्वायत्त संस्थान, रक्षा मंत्रालय)  
(An Autonomous Organisation fully funded by  
Deptt of Defence R&D, Ministry of Defence)

No. DIAT/F/ADM/31<sup>st</sup> BoM/2023/

Dated 23<sup>rd</sup> May, 2023

**All Members of the Board of Management  
Defence Institute of Advanced Technology  
(Deemed to be University), Pune**

**Subject : Minutes of the 31<sup>st</sup> meeting of the Board of Management held  
on 03/05/2023**

Dear Sir / Madam,

The Minutes of the 31<sup>st</sup> BoM meeting held on 03/05/2023, approved by the Chairman, BoM is attached herewith for your perusal and comments please.

2. It is requested that comments, if any, on these minutes may please be communicated to the undersigned by email ([registrar@diat.ac.in](mailto:registrar@diat.ac.in)) within one week. If no comments are received, it would be presumed that minutes as recorded are in order and further action on the implementation of the decisions shall be taken accordingly.

3. The vision document as presented vide item No. 31.5.4 is also enclosed for your kind review / suggestions as decided in the meeting.

Thanking you,

Encl: As above.

Yours faithfully,

(Kamal Kumar Bajre)  
Registrar & Secretary - BoM

To,

**DRDO Members**

1. Shri K. S. Varaprasad, DS & DG (HR), DRDO, DRDO Bhawan, Rajaji Marg, New Delhi 110011, Telephone - 011-23016163, Fax: 011-23016127
2. Shri Vedveer Arya, Addl. FA & JS - DRDO, DRDO Bhawan, Rajaji Marg, New Delhi - 110011, Telephone: 011-23010159, Fax: 011-23016217
3. Director, Research & Development Establishment (RDE), Pune, R & DE (Engrs), Kalas, Alandi Road, Pune - 411 015

### **External Members**

1. Dr. Raghunath K. Shevgaonkar, Former Director, IIT Delhi and Professor Emeritus, IIT Bombay, B-301, Lake Homes, Phase-2, Near Gopal Sharma School, Powai – 400076
2. Prof. V. Ramgopal Rao, Professor, Indian Institute of Technology Delhi, Hauz Khas, New Delhi-110016, Email: [rrao@admin.iitd.ac.in](mailto:r Rao@admin.iitd.ac.in)
3. Prof. Prabhat Ranjan, Vice Chancellor, (Member, AICTE Committee), D Y Patil International University, Sector 29, Nigdi Pradhikaran, Akurdi, Pune 411044
4. Prof. Bharadwaj Amrutur, Professor, Centre for Nano Science and Engineering (CeNSE), Indian Institute of Science, Bangalore, Karnataka, India, Email: [amrutur@iisc.ac.in](mailto:amrutur@iisc.ac.in), Phone:080-22933172 Phone: 80-2293 3276 080-2293 3291
5. Prof. V. Kamakoti, Director, Indian Institute of Technology Madras , Email: [director@iitm.ac.in](mailto:director@iitm.ac.in), [kama@cse.iitm.ac.in](mailto:kama@cse.iitm.ac.in), Tel: 044-22574350, Fax:044-22574352, Chennai - 600036
6. Dr. Ajit T. Kalghatgi, Ex-Director, (R&D), Bharat Electronics Limited (BEL), Outer Ring Road, Nagavara, Bangalore – 560045, Mob: 09448049327, Email: [ajitkalghatgi58@gmail.com](mailto:ajitkalghatgi58@gmail.com)
7. Dr. N. Sarat Chandra Babu, Former Executive Director, Society for Electronic Transactions and Security (SETS), Chennai, MGR Knowledge City, CIT Campus, Taramani Chennai – 600113, Email: [saratcdac@gmail.com](mailto:saratcdac@gmail.com), [sarat@setsindia.net](mailto:sarat@setsindia.net), Phone: 0446632505, Fax: 04466632501

### **Internal Members**

1. Prof. Balasubramanian, Dean (Acad), DIAT
2. Prof A. Kumaraswamy, Dean (Students Affairs), DIAT
3. Prof. P. K. Khanna, HoD, Deptt. Applied Chemistry
4. Dr. Suvarna Datar, Asso. Prof. & HoD, Deptt. of Applied Physics

**Copy to:**

**VC, DIAT (DU) Pune**

प्रबंधन बोर्ड की एकतीसवी बैठक का कार्यवृत्त

**MINUTES OF THE 31<sup>th</sup> MEETING OF THE  
BOARD OF MANAGEMENT**

**03<sup>rd</sup> MAY, 2023**



**उन्नत प्रौद्योगिकी रक्षा संस्थान**  
(सम-विश्वविद्यालय)  
गिरीनगर, पुणे – 411025

**Defence Institute of Advanced Technology**  
**Pune- 411025, Maharashtra**

**DEFENCE INSTITUTE OF ADVANCED TECHNOLOGY  
PUNE, MAHARASHTRA**



**31<sup>th</sup> MEETING OF THE BOARD OF MANAGEMENT  
WEDNESDAY, MAY 03, 2023**

Item No.	Particulars
BoM -31.1	Opening Remarks by Vice Chancellor & Chairman, Board of Management
BoM -31.2	Action taken report on the decisions taken during the 30 <sup>th</sup> Meeting of BoM held on 24/01/2023
BoM -31.3	Confirmation of the Minutes of the 31 <sup>th</sup> Meeting of BoM
BoM -31.4	<b><u>REPORTING ITEMS</u></b>
BoM -31.5	<b><u>AGENDA ITEMS FOR DISCUSSION</u></b>
BoM -31.5.1	Approval of the M.Tech, PhD and MS (By Res) results of the Academic Year 2021-23
BoM -31.5.2	Approval of the Audited Accounts of the Institute for the F.Y. 2022-23
BoM -31.5.3	Policy for utilization Institute Scientific Instruments and facilities by other organizations / users.
BoM -31.5.4	To consider 5 year vision document for DIAT

**DEFENCE INSTITUTE OF ADVANCED TECHNOLOGY**

Minutes of 31<sup>th</sup> Meeting of the Board of Management held on 03<sup>rd</sup> May, 2023 from 11:30 A.M. in the 4<sup>th</sup> Floor Conference Room, DIAT, Pune.

The following were present:

- |     |  |                            |
|-----|--|----------------------------|
| 1)  | Dr. C.P. Ramanarayanan<br>Chairperson, BoM DIAT                                    | Chairperson                |
| 2)  | Shri K. S. Varaprasad<br>DG- HR, DRDO  | Member                     |
| 3)  | Prof. Raghunath K Shevgaonkar<br>Professor, Emeritus EE<br>IIT Bombay              | Member                     |
| 4)  | Prof. Prabhat Ranjan<br>Vice Chancellor<br>DY Patil International University, Pune | Member                     |
| 5)  | Dr. Ajit K. Kalghatgi<br>Ex-Director, BEL  | Member                     |
| 6)  | Dr. N. Sarat Chandra Babu<br>Former ED-SETS, Chennai                               | Member                     |
| 7)  | Prof A. Kumarswamy<br>Dean (Students Affairs), DIAT                                | Member                     |
| 8)  | Prof. Balasubramanian K.<br>Dean (Acad), DIAT                                      | Member                     |
| 9)  | Prof. P. K. Khanna<br>Prof. & HoD, Applied Chemistry                               | Member                     |
| 10) | Dr. Suwarna Datar<br>Asso. Prof. & HoD, Applied Physics, DIAT                      | Member                     |
| 11) | Shri Shivaraj Dhupe<br>Dy FA (R&D), DRDO   | Rep. of Addl FA & JS (R&D) |
| 12) | Dr. Vidya K. Gargote<br>Finance Officer, DIAT                                      | Invitee                    |
| 13) | Prof. Sangeeta Kale<br>Director (Planning & Coordination), DIAT                    | Invitee                    |
| 14) | Shri Kamal Kumar Bajre<br>Registrar, DIAT  | Secretary                  |

Leave of absence has been granted to the following:

- |    |   |        |
|----|---|--------|
| 1) | Prof V. Ramgopal Rao<br>Professor, IIT Delhi                | Member |
| 2) | OS & Director<br>R&D(E), Pune                               | Member |
| 3) | Prof. Bhardwaj Amrutur<br>Professor, CeNSE<br>IIT Bangalore | Member |
| 4) | Prof. V. Kamakoti<br>Director, IIT Madras                   | Member |

The Chairperson welcomed all present at the meeting.

**Item No. 31.1: Opening Remarks by Vice Chancellor & Chairman, Board of Management.**

At the outset, the Chairman, BoM welcomed all the members and presented a brief on the progress of DIAT since last BoM.

Thereafter, the agenda items were taken up as follows:

**Item No. 31.2 Action taken report on the decisions taken during the 30<sup>th</sup> Meeting of BoM held on 24/01/2023**

Agenda Points	Agenda points discussed	Decision	Progress / Action taken
<b>Item No.30.5.1</b>	Adoption of policy document for Sponsored Research and Development Centre at DIAT.	The BoM appreciated the proposal. After detailed deliberations, the BoM <b>RESOLVED</b> to approve the draft policy document for <b>Sponsored Research and Development Centre (SRDC) of DIAT (DU), Pune as per Annexure-30.5.1</b>  A separate provision of Professional Development Fund (PDA) for faculty out of the generated fund from SR be made available for utilization by concerned faculty in amendments to be made in the policy.	Implementation in progress

<b>Item No. 30.5.2</b>	To operate vacant positions of higher grade (to be filled on promotion) at lower grades due to non-availability of eligible candidates in the feeder grade for the next 5 (five) years	The BoM after detailed deliberation, <b>RESOLVED</b> to recommend the proposal to DRDO HQ for approval and subsequent amendment in the existing RRs of the institute	Matter is under consideration at DRDO HQ.
<b>Item No. 30.5.3</b>	Transfer of four posts of Laboratory Assistant from Direct Recruitment quota to Promotion quota as a one-time measure.	The BoM after deliberation, <b>RESOLVED</b> to recommend the proposal to DRDO HQ for approval and subsequent amendments in the existing RRs of the institute	Matter is under consideration at DRDO HQ.

The BoM **noted** the action on the decisions taken in 30<sup>th</sup> BoM meeting with following remarks:

While reviewing the Action Taken Report of agenda Item No: 30.5.2 & 30.5.3, the Board of Management resolved to constitute a committee with DHRD as a member to review the Recruitment Rules for Non-Teaching Staff (Appendix 'C' of Rules & Regulations Governing Service Conditions, 2009), so as to address staff grievances with regard to Recruitment, Promotion etc. and lay down a road-map for staffing requirement of the Institute. The recommendation of the committee be presented to BoM for approval.

**Item No. 31.3 To confirm the minutes of the 30<sup>th</sup> meeting of the Board of Management held on 24/01/2023**

It was noted that the minutes of 30<sup>th</sup> meeting of the Board of Management (BoM) held on 24/01/2023 have been circulated and no comments have been received. Therefore, the minutes of 30<sup>th</sup> meeting of the Board of Management (BoM) meeting held on 24/01/2023 was **confirmed**, as circulated.

**Item No.31.4: Reporting Items:**

**I. APPOINTMENTS**

Sr. No.	Name	Designation	Date of Appointment	Remarks
1	Shri Ajay Bhargava	Assistant	06.04.2023	-
2	Shri. Akshay V Bor	Laboratory Assistant	21/04/2023	-
3	Shri Naresh B	Laboratory Officer		Expected date of joining-15/06/2023
4	Shri Harish Patil	Superintendent		Expected date of joining-06/06/2023

5	Shri Lavish Sachdeva	Executive Assistant	Expected date of joining-19/06/2023
6	Shri Dushyant Pandit	Assistant	Expected date of joining-13/05/2023

## **II. PROMOTION**

- i) Dr P.S. Kulkarni promoted to the grade of Professor (Academic Pay Level-14) w.e.f. 01/03/2023 under CAS.
- ii) Dr Debasish Pradhan promoted to the grade of Associate Professor (Academic Pay Level-13A) w.e.f. 01/03/2023 under CAS.
- iii) Dr Ganapati Joshi promoted to the grade of Associate Professor (Academic Pay Level-13A) w.e.f. 31/03/2023 under CAS.
- iv) Dr Arun Mishra promoted to the grade of Associate Professor (Academic Pay Level-13A) w.e.f. 31/03/2023 under CAS.

## **III. EXTENSION OF CONTRACT**

- i) The contract term with respect to Dr Sonali Ingole, Gynecologist (part time) has been extended for a further period of one year w.e.f. 15/02/2023.
- ii) The contract term with respect to Ms. Prajakta Koratkar, Assistant Professor (on contract) has been reviewed and extended for a further period of one year w.e.f. 10/01/2023

## **IV. ACHIEVEMENTS / AWARDS / RECOGNITIONS**

Following patents / provisional patents have been granted since the last BoM to till date:

Sr. No.	Patent No. & Date	Patent Title	Inventors
1	Patent Appn. No. - 427946 12/04/2023	A ROAD STRUCTURE AND A PROCESS FOR PREPARING THE SAME"	Dr. Balasubramanian Kandasubramanian, Co-inventor: Mr. Sachin Ashok Jadhav.
2	Patent Appn. No. 202311010204 15/02/2023	"A PROCESS FOR SYNTHESIZING NATURAL FIBER REINFORCED COMPOSITES	Dr. Balasubramanian Kandasubramanian, Co-inventor: Ms. Niranjana J.P.
3	Provisional Patent Appn. No. 202311010203 15/02/2023	PROCESS OF SHOCK WAVE EXFOLIATION OF POLYMERIC/ ELASTOMERIC/ CERAMIC NANOCOMPOSITES BY IN-SITU POLYMERIZATION"	Dr. Balasubramanian Kandasubramanian, Co-inventor: Dr. Ganapati Joshi, Dr. Prashant S. Alegaonkar, Dr. Tejashree Bhave, Ms. Neelaambhigai Mayilswamy.
4	Provisional Patent Appn. No. 202311010205 15/02/2023	PROCESS FOR DESIGN AND OPTIMIZATION OF 4D POLYMERIC MATERIALS FOR WATER PURIFICATION SYSTEM	Dr. Balasubramanian Kandasubramanian, Co-inventor: Dr. Amrita Nighojkar.
5	Provisional Patent Appn. No. 202311028597 19/04/2023	A METHOD FOR FABRICATION OF METAL-ION BATTERIES WITH BOROPHENE AND	Inventor Dr. Balasubramanian Kandasubramanian,



		BIOCHAR COATED ELECTRODES	Co-inventor: Ms. Neelaambhigai Mayilswamy
6	Provisional Patent Appn. No. 202311027544 14/04/2023	FLEXIBLE ELECTRODE COMPOSED OF ORGANIC ACID DOPED CONDUCTING POLYMER, AND DEVICE THEREOF FOR FLEXIBLE ELECTRONICS"	Dr. Fiyanshu Kaka, Co-inventor: Nishant Nandkumar Gaikwad, Dr. Balasubramanian Kandasubramanian.
7	Provisional Patent Appn. Patent No. 202311025117 12/04/2023	A PROCESS FOR THE PREPRATION OF POLYMER COMPOSITE BEADS	Dr. Tutiki Umasankar Patro, Co-inventor: Dr. Divyansh Upreti and Dr. Rohit Dhyaneshwar Bangal.

#### **V. WORKSHOP / TRAINING PROGRAMME**

- i) Defence Institute of Advanced Technology (DIAT), Pune along with Indian Institute of Technology Madras and ALVA's Institute of Engineering & Technology, Mangalore organized an International Conference on Laser Deposition (iCOLD-2023) from 23-25 March, 2023 at DIAT Pune
- ii) Defence Institute of Advanced Technology (DIAT), Pune and Society for Data Science (S4DS India) have jointly organized the 7th International Conference on Data Management, Analytics and Innovation (ICDMAI 2023), Pune in association with NIELIT, Guwahati and Aurel Vlaicu University of Arad, Romania, IBM Ensonic Computer Pvt. Ltd and Springer Nature from 20th – 22nd January, 2023 at DIAT Pune.
- iii) Defence Institute of Advanced Technology (DIAT), Pune has organized 6<sup>th</sup> edition of 'National Conference on Chalcogenide Compounds (NC<sup>3</sup>-2023)' during 16<sup>th</sup> – 17<sup>th</sup> March, 2023

#### **VI. PROJECTS THE INSTITUTE HAS UNDERTAKEN SINCE LAST BOM:**

Sl. No	Project Title	PI & Co-PI	Duration	Dept/ School	Grant in Lakhs	Funding Agency
1	Drone Forencsics Tool (DFT) for Fly Path Reconstuction, Resident Files, Dierctories, Network Artifacts and Event Logs Analysis	Dr. Upasna Sing - PI	06 Months	School of Computer Engg & Mathematical Sciences	₹ 4.60	DSCI- NCoE
2	Numerical Investigation of Ballistic Impact on Additively Manufactured AISi10Mg Alloy for Aerospace Applications	Prof. D. G. Thakur - PI	10 Months	Mechanical Engg	₹ 4.74	DIAT

3	Prognostic Engine Health Assessment based on Borescope Images using AI approach	Dr. Sunita Dhavale	01 Year	School of Computer Engg & Mathematical Sciences	₹ 21.00	ADA, MoD
4	Development of Data-Driven Machine Learning Algorithms for Engine Health Prognostics based on FADEC Data	Dr. Bharath Ramkrishna - PI Prof. R K Satpathy - Co-PI	01 Year	School of Computer Engg & Mathematical Sciences	₹ 9.72	ADA, MoD
5	Development of tactile sensors for object identification and gripping, using a combination of sensing materials and sensor arrays	Prof. Sangeeta Kale - PI Ms. Prajakta V K - Co.PI	02 Years	Applied Physics	₹ 95.75	CARS-DRDO
<b>Total</b>					<b>135.81</b>	

### 31.5 Agenda for discussion:

#### 31.5.1 **Approval of the M.Tech, MSc and PhD results of the Academic Year 2021-23.**

Academic Council in its meeting held on 01/05/2023 recommended the following degrees for approval of BoM:

M.Tech / MSc	:	261
PhD	:	23

The Controller of Examination (CoE) presented the results of the Academic Year 2021-23.

After detailed discussion, the BoM **RESOLVED** to approve the M.Tech, MSc and PhD results of the Academic Year 2021-23 as per the **Annexure-31.5.1** under clause 11.6 (xi) of the Institute

#### 31.5.2 **Approval of the Audited Accounts of the Institute for the F.Y. 2022-23**

The FC in its 29<sup>th</sup> meeting held on 03/05/2023 considered the Audited Accounts of the Institute for the FY 2022-23 and recommended to the BoM for approval.

The BoM **RESOLVED** to approve the Audited Accounts of the Institute for the FY 2022-23, with the following remarks:

- a) Surplus income from Hostel be transferred to Institute Corpus funds for future requirements of the institute.
- b) Efforts should be made for early settlement of advances disbursed on account of institute civil works

- c) In addition to the fixed deposit options to be explored for better returns.

**31.5.3 Policy for utilization Institute Scientific Instruments and facilities by other organizations / users.**

The policy for utilization institute Scientific Instrument and facilities by other organization / users on chargeable basis was presented by Prof. S. N. Kale, Director (Policy and Planning) before the BoM.

The BoM appreciated the proposal. After detailed deliberations, the BoM **RESOLVED** to approve the draft policy document for **utilization of institute Scientific Instruments and facilities by other organizations / users as per Annexure- 32.5.3**, with following remarks:

- a) A detailed Standard Operating Procedure (SOP) to utilize the institute scientific equipment by other organizations / users may be prepared. A clause for provision of insurance in the event of any accidents while utilizing scientific instruments may also be provided. The calibrations of the institute scientific instruments to be done at the frequent intervals and adequate protection to be taken care while operating the high-end scientific equipment.
- b) Discounts for startup companies / incubation centres is not required. Startups or incubation centres located within the campus only may be provided discount.
- c) Institute students may not be charged except when they are deployed on projects.

**31.5.4 To consider 5-year vision document for DIAT.**

A 5-year vision document for DIAT presented by Prof. S. N. Kale, Director (Policy and Planning) (attached as Annexure-31.5.4), before the BoM for consideration.

The BoM decided that the vision document may be circulated among the members for detailed review / suggestions and matter be considered in the next BoM.

There being no other agenda items, the meeting concluded with a vote of thanks to the Chair. The BoM members were urged to attend the 12<sup>th</sup> Convocation of DIAT scheduled on 15<sup>th</sup> of May, 2023.

  
(Kamal Kumar Bajre)  
Registrar & Secretary-BoM

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## 2021-2023 and 2020-2022 Batch List of students eligible for Convocation

Sr. No.	Column2	PROGRAMME	Regn No	NAME OF STUDENT	Grade	Credits	SGPA	CGPA
1	1	AE (GM)	21--01--01	EDMEALEM YENENEH	A+	14	9.00	8.21
2	2	AE (GM)	21--01--02	EDMEACHEW AYAL	A+	14	9.00	8.26
3	3	AE (GM)	21--01--03	SOORAJ KUMAR	A+	14	9.00	8.40
4	4	AE (GM)	21--01--04	RAJAT KUMAR THAKUR	A+	14	9.00	8.03
5	5	AE (GM)	21--01--05	MAYA C	A	14	8.00	8.50
6	6	AE (GM)	21--01--06	NAVEEN KUMAR KILAPARTHI	A+	14	9.00	8.53
7	7	AE (GM)	21--01--07	ANIRUDH SINGH	B+	14	7.00	7.24
8	8	AE (GM)	21--01--08	UMA MAURYA	A+	14	9.00	8.37
9	9	AE (GM)	21--01--09	RAJESH KUMAR CHAUDHARY	A+	14	9.00	8.03
10	10	AE (GM)	21--01--10	NIRMAL KUMAR S	A	14	8.00	8.45
11	11	AE (GM)	21--01--11	SHUBHAM SAWARKAR	A	14	8.00	8.00
12	12	AE (GM)	21--01--12	RUDRESH SINGH	A	14	8.00	8.00
13	13	AE (GM)	21--01--13	ANIRUDDHA MAGDUM	B+	14	7.00	7.34
14	14	AE (GM)	21--01--16	HARSHISH DAMOR	A	14	8.00	7.92
15	15	AE (GM)	21--01--17	SAURABH JADHAV	B+	14	7.00	7.55
16	16	AE (GM)	21--01--18	SAURABH KATHAIT	A+	14	9.00	8.40
17	17	AE (GM)	21--01--19	ADITYA PANT	A+	14	9.00	8.53
18	18	AE (GM)	21--01--20	LT CDR DIPU BHUYAN	A+	14	9.00	8.26
19	19	AE (GM)	21--01--21	NEHETE JAYESH RAMESH	B+	14	7.00	7.45
20	20	AE (GM)	21--01--22	BONTHU NIRANJAN KUMAR	A	14	8.00	7.60
21	1	AE (UAVs)	21--03--01	AYELE DIRIBA	A+	14	9.00	7.89
22	2	AE (UAVs)	21--03--02	FEKADU TESHOME	A+	14	9.00	7.89
23	3	AE (UAVs)	21--03--03	DINESH SA	A+	14	9.00	8.26
24	4	AE (UAVs)	21--03--04	PRATYUSH AGNIHOTRI	B+	14	7.00	7.50
25	5	AE (UAVs)	21--03--05	GOKUL PILLAI	B+	14	7.00	7.61
26	6	AE (UAVs)	21--03--06	ASHU GARG	A	14	8.00	8.18
27	7	AE (UAVs)	21--03--08	NEERAJ KUMAR	A+	14	9.00	8.58
28	8	AE (UAVs)	21--03--09	HERISH A	A	14	8.00	8.08
29	9	AE (UAVs)	21--03--10	RUSHIKESH ATUL KARANDIKAR	B+	14	7.00	7.23
30	10	AE (UAVs)	21--03--11	NAGA MOULI RAYAPROLU	A	14	8.00	8.10
31	11	AE (UAVs)	21--03--12	ALOK KUMAR	A+	14	9.00	8.31
32	12	AE (UAVs)	21--03--13	SAKTHI PRAKASH M	A+	14	9.00	8.58
33	13	AE (UAVs)	21--03--14	GAURAV KUMAR	A	14	8.00	8.03
34	15	AE (UAVs)	21--03--17	VIVEK MALVIYA	A	14	8.00	7.58
35	16	AE (UAVs)	21--03--18	DIVYANSHU AMAN	A+	14	9.00	7.95
36	17	AE (UAVs)	21--03--19	ASHUTOSH THORAT	A+	14	9.00	7.39
37	18	AE (UAVs)	21--03--20	SUNIL KUMAR ANDUGULA	A	14	8.00	8.13

SK

38	20	AE (UAVs)	21-03-22	ADITYA CHUHAN	A+	14	9.00	8.90
39	21	AE (UAVs)	21-03-23	SATHEESH KUMAR B	A+	14	9.00	8.79
40	1	ME (MRN)	21-04-02	LANKA PALLAVI	A	14	8.00	7.95
41	2	ME (MRN)	21-04-03	CHARISHMA ALMEIDA	A+	14	9.00	8.31
42	3	ME (MRN)	21-04-04	RAHUL YADAV	A	14	8.00	7.84
43	4	ME (MRN)	21-04-05	REHAN M KHAN	A	14	8.00	7.27
44	5	ME (MRN)	21-04-06	RIZWAN ALI	A+	14	9.00	8.03
45	6	ME (MRN)	21-04-07	SAURABH KUMAR SAINI	A	14	8.00	7.13
46	7	ME (MRN)	21-04-09	SAYANTA MITRA	A+	14	9.00	7.74
47	8	ME (MRN)	21-04-10	KAPIL SAINI	A	14	8.00	6.40
48	1	ME (ACV)	21-05-01	DANIEL MOSISA	A	14	8.00	7.34
49	2	ME (ACV)	21-05-02	ADITYA SWAROOP	A	14	8.00	7.24
50	3	ME (ACV)	21-05-03	SHINDE SHREERAM PANDURANG	A	14	8.00	7.34
51	4	ME (ACV)	21-05-04	KISHOR M ANTONY	A+	14	9.00	8.10
52	5	ME (ACV)	21-05-05	JAYANT SINGH	A	14	8.00	8.08
53	6	ME (ACV)	21-05-06	KSHITIJ CHITRANSH	A+	14	9.00	8.73
54	7	ME (ACV)	21-05-07	POGULA NIKHIL CHAKRAVARTHY	A+	14	9.00	8.95
55	8	ME (ACV)	21-05-08	DESHMUKH SHAMBHURAJ NILESH	A+	14	9.00	7.29
56	9	ME (ACV)	21-05-09	SIDDARTHA MADDURI	A+	14	9.00	8.11
57	10	ME (ACV)	21-05-10	VIKAS KUMAR SINHA	A+	14	9.00	7.95
58	11	ME (ACV)	21-05-11	SIDDHESH PANDURANG SAWANT	A+	14	9.00	8.37
59	12	ME (ACV)	21-05-12	SYED ALISHAN AHMED	A+	14	9.00	8.26
60	13	ME (ACV)	21-05-13	AKSHAY THOMBARE	A+	14	9.00	8.73
61	1	ME (ROBOTICS)	21-06-01	ANURAG A	A+	14	9.00	8.90
62	2	ME (ROBOTICS)	21-06-02	KULDEEP GURJAR	A	14	8.00	8.08
63	3	ME (ROBOTICS)	21-06-03	ABHIMANYU SINGH	A+	14	9.00	8.47
64	4	ME (ROBOTICS)	21-06-04	PRANAYA PRAKASH MAURYA	A+	14	9.00	8.42
65	5	ME (ROBOTICS)	21-06-05	RAGHVIND CHOPRA	A+	14	9.00	8.63
66	6	ME (ROBOTICS)	21-06-07	NITESH KUMAR	A+	14	9.00	8.53
67	7	ME (ROBOTICS)	21-06-08	JAYAKANT KUMAR	A+	14	9.00	7.34
68	8	ME (ROBOTICS)	21-06-09	NELLI VAMSHI	A+	14	9.00	8.53
69	9	ME (ROBOTICS)	21-06-10	MITESH SHINDE	A+	14	9.00	8.47
70	10	ME (ROBOTICS)	21-06-11	SEEMA	A+	14	9.00	8.08
71	11	ME (ROBOTICS)	21-06-12	SAI BATHULA	A+	14	9.00	8.26
72	12	ME (ROBOTICS)	21-06-13	ANEES H	A+	14	9.00	8.05
73	13	ME (ROBOTICS)	21-06-14	YASWANTH NEELAMSETTI	A+	14	9.00	8.58
74	14	ME (ROBOTICS)	21-06-16	RAJEEV RANJAN ASTHA	A	14	8.00	7.61
75	15	ME (ROBOTICS)	21-06-17	JAYESH PRAKASH	A+	14	9.00	8.58
76	16	ME (ROBOTICS)	21-06-18	DAVID SMITH SUNDARSINGH	A+	14	9.00	8.58
77	17	ME (ROBOTICS)	21-06-19	AJAY VAISHNAV	A+	14	9.00	8.39

78.2	ME (MSD)	21--07--03	C H PRVTHVI KUMAR	A	14	8.00	6.92
79.4	ME (MSD)	21--07--07	SHRADDHA SINGH	A+	14	9.00	7.87
80.5	ME (MSD)	21--07--09	AZEEMULLAH ANSARI	B+	14	7.00	7.79
81.6	ME (MSD)	21--07--10	HIMANSHU DABKE	A+	14	9.00	8.21
82.7	ME (MSD)	21--07--11	AZAD YADAV	B+	14	7.00	7.55
83.8	ME (MSD)	21--07--12	SHUBHAM KAMBLE	B+	14	7.00	7.32
84.9	ME (MSD)	21--07--13	NAVNEET RATRE	A+	14	9.00	7.66
85.10	ME (MSD)	21--07--14	DHANANJAY SINGH	C	14	5.00	6.71
86.11	ME (MSD)	21--07--15	ASHUTOSH PANDEY	A+	14	9.00	7.39
87.12	ME (MSD)	21--07--16	VARUN KUMAR	A+	14	9.00	7.84
88.13	ME (MSD)	21--07--17	GANESH LAWANDE	A+	14	9.00	8.32
89.1	CE (CS)	21--08--01	WONDIMU TOMA TUFA	B+	14	7.00	8.00
90.3	CE (CS)	21--08--03	VIKRAM KUMAR	B+	14	7.00	7.10
91.4	CE (CS)	21--08--04	NANDITA BISWAS	B	14	6.00	6.58
92.5	CE (CS)	21--08--08	SARANG RAJ CHOURASIA	B+	14	7.00	7.60
93.6	CE (CS)	21--08--09	APURVA CHANDRAKANT TAMHANKAR	A	14	8.00	8.45
94.7	CE (CS)	21--08--10	PRATHAMESH B NALE	A+	14	9.00	8.73
95.8	CE (CS)	21--08--12	ESHA SANJIV SHARMA	A+	14	9.00	8.58
96.9	CE (CS)	21--08--13	NEELES SINGH KATOCH	A	14	8.00	8.71
97.11	CE (CS)	21--08--15	GHULAM SARWAR	B+	14	7.00	7.79
98.12	CE (CS)	21--08--17	YASHAS AHIRWAR	B	14	6.00	7.24
99.13	CE (CS)	21--08--18	RAHUL HERMON	A	14	8.00	8.45
100.14	CE (CS)	21--08--19	ANIRUDH RATHORE	A	14	8.00	8.45
101.15	CE (CS)	21--08--20	AKASH BUDHRANI	A	14	8.00	8.61
102.16	CE (CS)	21--08--21	BHAVYA SINGH SHISHODIA	A+	14	9.00	8.68
103.17	CE (CS)	21--08--22	AJAY SALARIA	A+	14	9.00	8.37
104.18	CE (CS)	21--08--23	SANKALP DOGRA	A	14	8.00	8.29
105.1	AC (EMP)	21--11--01	U THANIGAIVELAN	A+	14	9.00	8.95
106.1	MM (MST)	21--12--01	MOHAMAMD AMIR AHEMAD	A+	14	9.00	8.00
107.2	MM (MST)	21--12--04	SHRUTI GUPTA	O	14	10.00	9.32
108.3	MM (MST)	21--12--05	KALYAN SUNDAR KRISHNA CHIVUKULA	A+	14	9.00	8.58
109.1	MM (MATE)	21--13--01	MULLA JAASIM MOHAMMED JUNAID	A+	14	9.00	8.58
110.2	MM (MATE)	21--13--02	YADAV SANDEEP KUMAR	A+	14	9.00	8.42
111.3	MM (MATE)	21--13--03	BIRAJDAR RAM GULAB	A+	14	9.00	8.16
112.4	MM (MATE)	21--13--05	TARADE DIPAK SHAMRAO	A+	14	9.00	9.05
113.5	MM (MATE)	21--13--06	NISHANT NANDKUMAR GAIKWAD	A+	14	9.00	8.16
114.6	MM (MATE)	21--13--07	ALBIN ALBERT	A	14	8.00	7.92
115.7	MM (MATE)	21--13--08	SAGRE SANTOSH MAHARUDRA	A+	14	9.00	7.71
116.8	MM (MATE)	21--13--09	AMBATI MOULISHWAR REDDY	A+	14	9.00	8.89
117.1	AM (M&SC)	21--14--01	DEVASHISH PANDEY	A	14	8.00	7.87

118	2	AM(M&SC)	21--14--04	SHYAM SUNDAR	A	14	8.00	7.95
119	3	AM(M&SC)	21--14--05	LOVISH MITTAL	A+	14	9.00	8.42
120	4	AM(M&SC)	21--14--06	SAIKAT BANK	A+	14	9.00	8.58
121	5	AM(M&SC)	21--14--07	MATIN AHMED	A	14	8.00	7.58
122	6	AM(M&SC)	21--14--09	BUBUN DAS	A	14	8.00	8.00
123	7	AM(M&SC)	21--14--10	SONIKA	A	14	8.00	7.32
124	8	AM(M&SC)	21--14--11	PRUTHVI RAJU UTTURWAR	A	14	8.00	7.87
125	9	AM(M&SC)	21--14--12	ABHIJEET RAVINDRA MALKAR	A+	14	9.00	7.68
126	10	AM(M&SC)	21--14--13	LEELA PRAKASH ATTULURI	A+	14	9.00	8.16
127	11	AM(M&SC)	21--14--14	HAREKRUSHNA SAHU	A+	14	9.00	8.18
128	12	AM(M&SC)	21--14--15	PRIYESH KUMAR ROY	A+	14	9.00	7.58
129	13	AM(M&SC)	21--14--16	MD SHAHZEB	A+	14	9.00	8.32
130	14	AM(M&SC)	21--14--17	PURAM YUDHISTAR SAI	A+	14	9.00	7.53
131	15	AM(M&SC)	21--14--18	PRANJALI VIJAY PAGARE	A	14	8.00	7.34
132	16	AM(M&SC)	21--14--19	SAMEER BARA	A	14	8.00	6.89
133	18	AM(M&SC)	21--14--21	SUMUKHA VARAMBALLY	A+	14	9.00	8.11
134	19	AM(M&SC)	21--14--22	RAHUL J BALIGA	A+	14	9.00	8.47
135	1	AP(ST)	21--15--01	VIJAYARAJ L SANGAVI	A+	14	9.00	7.50
136	2	AP(ST)	21--15--02	SHIVAM JAISWAL	A+	14	9.00	8.37
137	3	AP(ST)	21--15--05	CHINMAI SUSHANT MYSOREKAR	A+	14	9.00	8.68
138	4	AP(ST)	21--15--06	PIYUSH KUMAR SAHU	A+	14	9.00	8.00
139	5	AP(ST)	21--15--07	KRIPALI JAIN	A+	14	9.00	8.63
140	6	AP(ST)	21--15--08	FENIL NITESH MANDALIA	A+	14	9.00	8.42
141	7	AP(ST)	21--15--09	SREETHU P	A+	14	9.00	7.95
142	8	AP(ST)	21--15--10	TANUSHREE PAL CHOWDHURY	A+	14	9.00	8.61
143	9	AP(ST)	21--15--12	HITESHU SHARMA	A+	14	9.00	7.71
144	10	AP(ST)	21--15--13	SANTOSH KUMAR	A+	14	9.00	7.81
145	1	AP(LEOC)	21--16--01	V K SANJEEVI MITRA VEMURI V	A+	14	9.00	8.53
146	2	AP(LEOC)	21--16--02	SHREYAS JAIN	A+	14	9.00	8.23
147	3	AP(LEOC)	21--16--03	SATHIYA NARAYANAN S L	A+	14	9.00	8.68
148	4	AP(LEOC)	21--16--04	MADHURIMA	A+	14	9.00	8.13
149	5	AP(LEOC)	21--16--05	JAMPANI KASHYAP	A+	14	9.00	7.68
150	6	AP(LEOC)	21--16--06	PIYUSH SINGH RATHORE	A+	14	9.00	8.79
151	1	AP(OPC)	21--17--01	PAKKI PATNAIK	A+	14	9.00	8.53
152	2	AP(OPC)	21--17--02	SRICHARAN N	A+	14	9.00	8.53
153	3	AP(OPC)	21--17--07	UTKARSH KUMAR SINGH	A+	14	9.00	8.32
154	1	TM	21--18--02	POOJA SONI	A	14	8.00	7.87
155	2	TM	21--18--03	YASH DEEPAK KULKARNI	A+	14	9.00	8.58
156	3	TM	21--18--04	MASKE TULSHIDAS RAMDAS MUKTABAI	A+	14	9.00	8.16
157	4	TM	21--18--05	BHISE SHOUNAK SAMIR	A	14	8.00	8.05

158	5	TM	21--18--08	ASHOK RAINA	A+	14	9.00	9.00
159	6	TM	21--18--09	ARVIND M DHAMNE	A+	14	9.00	9.21
160	7	TM	21--18--10	KULDEEP TIKOO	A+	14	9.00	9.27
161	8	TM	21--18--11	ARUN PRABHAKARAN	A+	14	9.00	8.82
162	9	TM	21--18--12	MANISH AGRAWAL	A+	14	9.00	9.05
163	10	TM	21--18--13	ANUP RALEGAONKAR	A+	14	9.00	8.90
164	11	TM	21--18--14	SHIVA DUDHRAJ	A+	14	9.00	7.92
165	12	TM	21--18--15	ANUP KUMAR	A	14	8.00	8.45
166	1	EE(SPC)	21--19--01	DEBNATH ANUBHAV	A	14	8.00	8.55
167	2	EE(SPC)	21--19--03	CHOWDHURY NIPUNIKA	B+	14	7.00	8.32
168	3	EE(SPC)	21--19--04	NITHYA K	A+	14	9.00	8.89
169	4	EE(SPC)	21--19--05	SUHAIL IQBAL	A	14	8.00	8.69
170	5	EE(SPC)	21--19--06	RASHMI MANOJ KATARIYA	A+	14	9.00	8.73
171	6	EE(SPC)	21--19--07	MEENA RAJNI	A	14	8.00	7.13
172	7	EE(SPC)	21--19--08	JALLEPALLI KOUNDINYA	A+	14	9.00	8.95
173	1	EE(R&C)	21--20--01	GHANSHYAM YADAV	A+	14	9.00	8.63
174	2	EE(R&C)	21--20--03	ANANJAY PANDEY	A	14	8.00	8.21
175	3	EE(R&C)	21--20--04	RAGHAVENDRA K	A+	14	9.00	8.95
176	4	EE(R&C)	21--20--05	KANIKA SINGH RAJPOOT	A+	14	9.00	8.37
177	5	EE(R&C)	21--20--06	SAPANA SHIRSAT	B+	14	7.00	6.89
178	6	EE(R&C)	21--20--07	SURAJ SARKAR	A	14	8.00	8.13
179	7	EE(R&C)	21--20--08	SURAJ SHARMA	A+	14	9.00	8.16
180	9	EE(R&C)	21--20--10	RASHMIKA THOTA	A+	14	9.00	8.79
181	10	EE(R&C)	21--20--11	AAKASH BHATIA	A	14	8.00	7.40
182	11	EE(R&C)	21--20--12	S PHANIRAJ	A	14	8.00	7.58
183	12	EE(R&C)	21--20--13	MAHMUD MOHAMMAD	A+	14	9.00	8.05
184	1	EE(DES)	21--21--01	YOGESH KUMAR	A+	14	9.00	8.90
185	2	EE(DES)	21--21--02	NEHA SINGH	A+	14	9.00	8.73
186	3	EE(DES)	21--21--03	HANEEF SYED	B+	14	7.00	7.87
187	4	EE(DES)	21--21--04	SHOAIB BOHRA	A+	14	9.00	8.79
188	5	EE(DES)	21--21--05	SHISHIR R	A+	14	9.00	8.37
189	6	EE(DES)	21--21--06	PUSHPENDRA RAJPUROHIT	A+	14	9.00	8.32
190	7	EE(DES)	21--21--07	ARUN M	A	14	8.00	7.74
191	8	EE(DES)	21--21--08	SHRIKRISHNA BIHARI	A	14	8.00	8.50
192	1	EE(VLSI)	21--24--01	SWITEE MESHAM	A+	14	9.00	7.92
193	2	EE(VLSI)	21--24--02	BHARAT SUTHAR	A	14	8.00	8.47
194	3	EE(VLSI)	21--24--03	ANIL KUMAR MEENA	A+	14	9.00	9.24
195	4	EE(VLSI)	21--24--04	AVULA GIRISH KUMAR	A+	14	9.00	8.50
196	5	EE(VLSI)	21--24--06	MEGHA S	A+	14	9.00	8.84
197	6	EE(VLSI)	21--24--07	RAHUL P R	A+	14	9.00	8.97

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198	7	EE(VLSI)	21-24-08	GOVIND RATHOD	A	14	8.00	8.16
199	8	EE(VLSI)	21-24-09	SUNIL KUMAR KANNAUJIYA	A	14	8.00	8.00
200	9	EE(VLSI)	21-24-11	KOTA BHAVANI	A+	14	9.00	8.50
201	10	EE(VLSI)	21-24-14	BHARATH RAMBARIKA	A+	14	9.00	8.23
202	11	EE(VLSI)	21-24-15	SAMYAK JAIN	A+	14	9.00	8.03
203	12	EE(VLSI)	21-24-16	THARAL PIUS	A+	14	9.00	8.48
204	13	EE(VLSI)	21-24-17	CHANDRA MOHAN NAGAR	A	14	8.00	7.79
205	14	EE(VLSI)	21-24-18	A HITESH	A	14	8.00	8.52
206	1	MME(CORRO)	21-25-01	CHAUHAN VISHAL	A+	14	9.00	8.84
207	1	CSE(CSE)	21-26-02	TARUN KUMAR SAHU	A+	14	9.00	8.03
208	2	CSE(CSE)	21-26-03	NILESH NAYAK	A+	14	9.00	8.84
209	4	CSE(CSE)	21-26-07	AMAN YADAV	A+	14	9.00	7.66
210	5	CSE(CSE)	21-26-08	AKANKSHA SUBUDHI	A+	14	9.00	8.00
211	6	CSE(CSE)	21-26-09	APEKSHA AGASE	A+	14	9.00	8.18
212	7	CSE(CSE)	21-26-10	PRAKASH VED	A+	14	9.00	7.58
213	8	CSE(CSE)	21-26-11	PRADDHUMNA SONI	A	14	8.00	7.71
214	9	CSE(CSE)	21-26-12	MAYUR SHENDE	A+	14	9.00	8.03
215	10	CSE(CSE)	21-26-13	SHEETAL BORKAR	A+	14	9.00	7.55
216	11	CSE(CSE)	21-26-14	MAJOR ABHIMANYU SINGH	O	14	10.00	9.18
217	12	CSE(CSE)	21-26-15	DEVABRAT MOHAKUL	A+	14	9.00	8.37
218	13	CSE(CSE)	21-26-16	JAVED MOHAMMAD	A	14	8.00	7.74
219	14	CSE(CSE)	21-26-17	MANAK BABRA	C	14	5.00	6.97
220	15	CSE(CSE)	21-26-18	MAJOR PRAVEEN KUMAR SHARMA	A	14	8.00	8.16
221	16	CSE(CSE)	21-26-19	MAJOR SANDEEP CHAUHAN	A+	14	9.00	8.84
222	17	CSE(CSE)	21-26-20	MAJOR SUSHIL KUMAR	A+	14	9.00	8.84
223	18	CSE(CSE)	21-26-21	SANJEEV YADAV	A+	14	9.00	8.42
224	1	AM(DS)	21-27-01	AKKARAPAKA KULADEEP	A+	14	9.00	8.42
225	2	AM(DS)	21-27-02	SHREYAS SADANAND SHELKE	A	14	8.00	7.53
226	3	AM(DS)	21-27-03	NEETIRAJ MALVIYA	A+	14	9.00	7.55
227	4	AM(DS)	21-27-04	ASHISH KUMAR	B+	14	7.00	6.87
228	5	AM(DS)	21-27-05	MAULI PRAKASH JADHAV	A+	14	9.00	7.92
229	6	AM(DS)	21-27-06	SIDHANT SATAPATHY	A	14	8.00	7.53
230	7	AM(DS)	21-27-07	SHIVAM KUMAR GOEL	A	14	8.00	7.73
231	8	AM(DS)	21-27-08	SUBODH MILIND WASEKAR	A	14	8.00	7.16
232	9	AM(DS)	21-27-09	ROHIT KUMAR JANGIR	A	14	8.00	7.37
233	10	AM(DS)	21-27-10	NISHCHAL PRAKASH KARWADE	A	14	8.00	6.92
234	11	AM(DS)	21-27-11	KALYAN SEKHAR GALI	A+	14	9.00	8.13
235	12	AM(DS)	21-27-12	VISHNU DEV TRIPATHI	A	14	8.00	7.32
236	13	AM(DS)	21-27-13	SOURAV KUMAR KHAN	A+	14	9.00	8.37
237	14	AM(DS)	21-27-14	KAMAL KANDPAL	A+	14	9.00	8.50

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238	15	AM(DS)	21--27--15	ABHIJEET SINGH	A	14	8.00	7.71
239	16	AM(DS)	21--27--16	RAJATKUMAR BHARAT BORKAR	A	14	8.00	7.92
240	17	AM(DS)	21--27--17	ROHIT LOHANI	A+	14	9.00	8.24
241	18	AM(DS)	21--27--18	SANJAY YADAV	A	14	8.00	6.58
242	19	AM(DS)	21--27--19	SAURABH S RAMTEKE	A+	14	9.00	8.03
243	20	AM(DS)	21--27--21	RAM KRISHNA MARRI	A	14	8.00	7.13
244	1	QT	21--28--01	RAJA SINGH YADAV	B+	14	7.00	7.26
245	2	QT	21--28--02	SHRIKANT YADAV	A+	14	9.00	7.82
246	3	QT	21--28--03	VISHAL KUMAR PATHAK	A+	14	9.00	8.63
247	4	QT	21--28--04	MOHIT RAJPUROHIT	A+	14	9.00	8.90
248	5	QT	21--28--06	ANUPAM PATRA	A	14	8.00	8.11
249	6	QT	21--28--07	UDDIPTA MUKHERJEE	A	14	8.00	7.34
250	7	QT	21--28--08	DARSHAN L	O	14	10.00	9.68
251	1	NT(AC)	21--29--01	KARTIK KUMAR SAINI	B+	14	7.00	7.34
252	2	NT(AC)	21--29--02	ALOK KUMAR YADAV	A+	14	9.00	8.16
253	3	NT(AC)	21--29--03	SHUBHANGI PANDIT	O	14	10.00	8.89
254	4	NT(AC)	21--29--04	SEMONTEE RAY	A+	14	9.00	8.47
255	5	NT(AC)	21--29--05	BANDI MYSURA REDDY	A	14	8.00	8.45
256	6	NT(AC)	21--29--06	DEBKANTA PAL	A+	14	9.00	8.42
257	2	VLSI	20--24--04	CHINTAMANI A PHADKE	A+	14	9.00	8.50
258	1	MSC (FT)	21-55-01	Prashant G	A+	25	9.00	8.44
259	2	MSC (FT)	21-55-02	Jag Mohan	A+	25	9.00	8.76
260	3	MSC (FT)	21-55-03	Gautam Bambah	A	25	8.00	8.47
261	4	MSC (FT)	21-55-04	Pamidi Pragnasree	A+	25	9.00	8.95

## List of toppers in batch 2021-2023 for Mtech and MSc

Column2	PROGRAMME	Regn No	NAME OF STUDENT	SGPA SEM1	SGPA SEM2	SGPA SEM3	SGPA SEM4	CGPA
1	AE (GM)	21-01-19	ADITYA PANT	8.17	8.33	9.00	9.00	8.53
2	AE (UAVs)	21-03-22	ADITYA CHUHAN	8.67	9.00	9.00	9.00	8.90
3	ME (MRN)	21-04-03	CHARISHMA ALMEIDA	7.50	8.33	9.00	9.00	8.31
4	ME (ACV)	21-05-07	POGULA NIKHIL CHAKRAVARTHY	8.50	9.33	9.00	9.00	8.95
5	ME (ROBOTICS)	21-06-01	ANURAG A	8.50	9.17	9.00	9.00	8.90
6	ME (MSD)	21-07-17	GANESH LAWANDE	7.67	8.17	9.00	9.00	8.32
7	CE (CS)	21-08-10	PRATHAMESH B NALE	8.83	8.33	9.00	9.00	8.73
8	AC(EMP)*	21-11-01	U THANIGAIVELAN	8.67	9.17	9.00	9.00	8.95
9	MM(MST)*	21-12-04	SHRUTI GUPTA	9.17	8.67	10.00	10.00	9.32
10	MM(MATE)	21-13-05	TARADE DIPAK SHAMRAO	8.83	9.33	9.00	9.00	9.05
11	AM(M&SC)	21-14-06	SAIKAT BANK	8.50	8.17	9.00	9.00	8.58
12	AP(ST)	21-15-05	CHINMAI SUSHANT MYSOREKAR	8.50	8.50	9.00	9.00	8.68
13	AP(LEOC)	21-16-06	PIYUSH SINGH RATHORE	8.50	8.83	9.00	9.00	8.79
14	AP(OCP)*	21-17-02	SRICHARAN N	8.00	8.50	9.00	9.00	8.53
15	TM	21-18-10	KULDEEP TIKOO	9.17	9.67	9.00	9.00	9.27
16	EE(SPC)	21-19-08	JALLEPALLI KOUNDINYA	9.17	8.67	9.00	9.00	8.95
17	EE(R&C)	21-20-04	RAGHAVENDRA K	9.00	8.83	9.00	9.00	8.95
18	EE(DES)	21-21-01	YOGESH KUMAR	8.17	9.50	9.00	9.00	8.90
19	EE(VLSI)	21-24-03	ANIL KUMAR MEENA	8.67	9.50	10.00	9.00	9.24
20	MME(CORRO)*	21-25-01	CHAUHAN VISHAL	8.50	9.00	9.00	9.00	8.84
21	CSE(CSE)	21-26-14	MAJOR ABHIMANYU SINGH	8.83	9.17	9.00	10.00	9.18
22	AM(DS)	21-27-14	KAMAL KANDPAL	8.67	8.33	8.00	9.00	8.50
23	QT	21-28-08	DARSHAN L	9.33	9.67	10.00	10.00	9.68
24	NT(AC)	21-29-03	SHUBHANGI PANDIT	8.33	8.17	10.00	10.00	8.89
25	MSC (FT)*	21-55-04	Pamidi Pragnasree	8.80	9.20	8.80	9.00	8.95

\* Not eligible for gold medal as per the OM no. DIAT/F/ACAD/Policy/Gen on dated 08/12/2022.

*gn*

*Pragnasree*

## LIST OF PHD PASSED OUT STUDENTS FOR 2022-23

Sl	Name of student	Reg. No.	Supervisor	Department	Title
1	Harish C Kumawat	18-51-05	Dr. Bazil Raj	Electronics Engineering	Accurate Detection and Classification of Low-RCS Targets using their Micro-Doppler Signatures
2	Kaumudi Yadav	16-52-06	Dr. Patro	Materials Engineering	Synthesis of NiCo <sub>2</sub> O <sub>4</sub> nanoneedles and their growth on carbon substrates for multifaceted applications
3	Arvind Kumar	15-52-11	Dr. O Ojela	Applied Maths	Analysis of Structural Aspects of Stream Ciphers
4	Vivek Kale	19-51-13	Dr. S Kale	Applied Physics	Nanomaterials Functionalized Patterned Structures for Gas Sensing and Biological Applications
5	Ayush Verma	17-52-01	Dr. Shannugasundaram	Materials Engineering	A Study on the Effect of Cu on Mechanical and Surface Properties of CoCrFeNi High Entropy Alloy
6	Mainak Chakraborty	18-52-07	Dr. S Dhavale	Computer Sc & Engg	Novel Deep Learning Architectures for Different Real-world Problems
7	Girish Mishra	16-51-01	Dr. SK Murthy	Applied Maths	Security Analysis of Symmetric Ciphers Using Machine Learning Techniques
8	Preeti	16-52-08	Dr. O Ojela	Applied Maths	Numerical Investigation of Heat Transport Enhancement in Boundary Layer flows of Hybrid Nanofluids
9	Sagar D Kamble	17-52-04	Dr. AVR murthy	Applied Physics	Investigation of Biophysical and Nano-mechanical Properties of Single and Multi-component supported lipid bilayers
10	Chinke Shamal L	16-52-07	Dr. T Bhawe	Applied Physics	Blast Mitigation Properties of Nano-carbons & System Engineering of Muzzle Velocimetry
11	Sushil S Pawar	16-52-04	Dr. Balasubramanian	Materials Engineering	Hydrophilic and Hydrophobic Antifouling Coatings for Marine Application
12	R G Revaiah	18-51-12	Dr. Balasubramanian	Materials Engineering	Studies on the properties of coated technical textiles used in the military applications
13	Harmeet Singh Dalwani	17-51-02	Dr. PK Khanna	Applied Chemistry	Studies on Nitrate Ester Plasticized Composite Propellants based on Crosslinkable Triblocks of Polycaprolactone-Polybutadiene-Polycaprolactone
14	M H Rahaman	18-51-08	Dr. KP Ray	Electronics Engineering	Terahertz Technology in Defence & Communication - Issues, Challenges and Way forward
15	Harikrishnan S	16-51-05	Dr. Ajay Misra	Aerospace Engineering	Investigation of the Design Aspects and Environmental Conditioning of Shaped Charge Warheads
16	Pankaj K Verma	16-52-02	Dr. V Hiwarkar	Materials Engineering	Fabrication and Annealing of TiB/Ti-6Al-4V composites using Laser Powder Bed Fusion Additive Manufacturing
17	Sudeep Kumar T	19-52-12	Dr. Shannugasundaram	Materials Engineering	A study on the oxidation and corrosion behavior of AlCoCrFeNi <sub>2</sub> eutectic high entropy alloy
18	Suresh V Panchal	17-52-05	Dr. S Datar	Applied Physics	Machine Learning in Sensors and Imaging Systems
19	Saurabh Parmar	18-51-04	Dr. S Datar	Applied Physics	Quartz Tuning Fork (QTF) based Sensor Array: Towards Breathomics
20	Mahesh A Naik	18-51-01	Dr. D Thakur	Mechanical Engineering	Experimental and Numerical Investigations of Additively Manufactured Polymer Composite Materials for Aerospace Applications
21	R Anthoni S	19-51-09	Dr. D Thakur	Mechanical Engineering	Experimental Investigation and Analysis of Optimised Zwitterionic Surfactant Based ENI-P-nanoTiO <sub>2</sub> Coatings on AH36 Steel for Naval Applications
22	Prahlad S Joshi	18-51-02	Dr. Panigrahi	Mechanical Engineering	Dynamic Response of Monolithic and Composite Laminated Structures under Internal blast loading
23	Pashant A Dixit	18-52-06	Dr. H Panda	Materials Engineering	Investigation on Mechanical and Electrical Properties of Structural and Functional Ceramics for Defence Applications

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**Defence Institute of Advanced Technology (DIAT)  
Office of Director (Policy & Planning)**

**Academic and Co-curricular Vision Document for DIAT in 05 Years (2023 – 2028)**

Defence Institute of Advanced Technology, under the aegis of Department of Defence Research and Development, Ministry of Defence, Government of India, has grown in strength and stature, since its recognition as Deemed to be university on 1<sup>st</sup> April 2006. The Institute has also acquired ISO 9001:2000 certification from DNV Norway. Having conferred the status of category “A” Deemed to be University by the Ministry of Human Resource Development, Government of India, the institute is on its way to NBA and NAAC accreditations.

The institute, a premier autonomous educational entity, equipped with modern laboratories, well-qualified faculty members is engaged in post graduate education and research leading to M. Tech and Ph. D degrees. Efforts are continuously on to maintain higher standards of quality training in the critical area of modern Defence Technologies, thereby enhancing the technical capabilities of DRDO Scientists, Service Officers, officers from defence Industries and fresh engineering graduates. The Institute also prepares trained manpower for industries engaged in” Make in India “campaign of Government of India.

At DIAT, to meet the needs of Armed Forces, DRDO, Defence Quality Assurance, Defence Ordnance Factories, Directorate of Aeronautical Quality Assurance and other Public Sector undertakings many specialized /customized PG Courses are conducted. In addition to the Ph. D & M. Tech Courses, the Institute also conducts 1-1.5yr duration specific limited courses and a variety of specialised short-term courses. DIAT opened its gates in the year 2006 for the general public and since then has been admitting students in open category with scholarships to join its Ph.D/M.Tech programmes. To boost the ongoing research programmes and also to enhance quality of teaching and training the institute has introduced a scheme of “Visiting Professors /Scientists”. The institute is on its way to take a quantum leap in the domain of technical education & research, specific to defence needs.

The Vision of DIAT is to be a Centre of Excellence of International repute for Education, Training and research in Advanced Technologies with a view to strengthen national security and self-reliance. To evolve as an Innovative Unique Research University to develop indigenous contemporary Defence related technologies in Navigation Systems, Wireless Sensors, Efficient Propulsion Systems for DRDO and Defence Services, provide technological solutions to the services to optimise combat battlefield effectiveness and above all produce qualified quality manpower which can truly become an instrument for building a strong indigenous Base in India, is the Mission of DIAT.

In order to achieve its Vision and Mission, Defence Institute of Advanced Technology (DIAT) is committed to creating a centre of Excellence for Education, Training by way of continual improvement and consistent innovation in material as well as Intellectual Infrastructure towards customer’s delight.

The recent National Education Policy (NEP) which has been made mandatory for all Universities, are also considered while framing this document. Following points are considered while framing this Vision document:

- ✓ Towards a More Holistic Education
- ✓ Optimal Learning Environments and Support for Students
- ✓ Motivated, Energised, and Capable Faculty
- ✓ Equity and Inclusion in Higher Education
- ✓ Reimagining Vocational Education
- ✓ Professional Education

Therefore, the Office of Policy and Planning has a mandate to frame the vision plan in such a way that following objectives are nurtured by DIAT:

- 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 collaborations with the Armed Forces, Academia, R&D Institutions and Industry.
- To generate adequate financial resources for sustainable Growth and Development.

To attain these objectives, following plans are underway, so that in upcoming 5 years the objectives are met to a large extent.

### **1. New Schools and Centre's:**

This is an era of interdisciplinary research. The times of working in silo have gone past and unless collaborations between various departments does not occur, major technologies cannot be realized. Quantum Technology, Robotics, Radar Technology are in place. In the upcoming years, additional schools on Energy and Environment, Sensor Technology, Metallurgy and Manufacturing, Cyber Technologies would be on anvil. Project Management is one area in Defence Sector which is of prime importance. This can also be initiated in the coming years.

This concept of Schools will be immensely beneficial to the students studying their M. Tech curriculum since they can choose from wide range of electives from where a seamless education can be offered to them. DIAT Post Graduate Committee (PGC) has already done this exercise for students in Quantum Technology and this will be done all across the institute. The idea in the upcoming 5 years would be to have the university in the form of Schools and Centre's which would be supported by individual Departments.

## **2. Involving students for Development of new technologies to address challenging times:**

Entire country has witnessed Pandemic challenges in past few years. The country has rose to the occasion and therefore, India has seen immense developments of indigenous technologies in the products as simple as face-mask to, as complicated as, Ventilators. DIAT has geared up in the same way and has developed more than 8 products right from face masks, sanitizers, quarantine zones, AI-based imaging for diagnostics, nanomaterials based anti-covid formulations and many similar products. Students and faculty have worked hard to recognize such products. Patent have come up to safeguard the technologies. These technologies have been given to industries and upscaled products are available in the market.

In upcoming years, this momentum is planned to continue. The synergy between students and faculty members to develop a product indigenously would be harnessed more. In-house funding would be given to faculty and students together for developing such ideas. DIAT has developed “Innovation Cell” to handle such ideas from students and faculty. This cell is backed by Dean (Sponsored Research) so that more such project ideas are initiated and realized. Constant lectures from Industry personnel would be conducted on such lines for student motivation. Entrepreneurships and start-up will be encouraged for faculty and students alike.

## **3. Research towards product development under “Atmanirbhar Bharat”**

DIAT is a post-graduate University. Many international and National project competitions are conducted world-wide. DIAT is motivating students to participate in such competitions so that indigenous technologies and research is encouraged. Students are given good exposure to challenging problems of DRDO and are motivated to do projects on those lines.

Involving students in DRDO projects and boosting them to participate in project competitions would make them industry -ready. This will be further boosted in the coming 5 years. Acquiring more projects from PSUs, Tri-Services and Industry would be the main focus. DIAT will strive as Research University and develop technologies which can compete at National level, minimum. Becoming an Institute of National Importance is the final aim of DIAT in coming couple of years. The documentation is already in the pipeline and the efforts have already started on these lines.

## **4. Establishment of Hobby Clubs for Co-curricular development of Students**

Students are the back-bone of every university. They are the stake holders and their overall development is the main motto of any good university. Hobby clubs are mainly initiated to uncover the hidden talents in the students. Literary club, Robotics Club, Additive manufacturing club, Quantum-Club are already thought of. Such clubs would be formed by the student sand for the students. Many such co-curricular activities would be planned in upcoming years. Social responsibility would also form a part of this planning. These include CSR activities, tree plantations,

rural upliftment and education, cleanliness drives, water treatment and recycling activities would form the agenda in upcoming years. Making students more socially responsible, is the aim.

#### **5. Strengthening Alumni Network**

Alumni of DIAT is very strong and rich. Though DIAT is a young University, the alumni comprise of personalities from DRDO and Army-Navy-Air Force backgrounds. Many civilian students have gone overseas for higher education in excellent universities in USA and Europe. They bring fresh ideas for curriculum development, more options for placement cell and more exposure to the current students. Strengthening the DIAT Alumni will be one agenda in upcoming years.

#### **6. Establishment of Chair Professor / Professor of Practice Positions**

DRDO, Tri-Services (Army-Navy-Air Force), Industry and PSU sponsored chair Professors would be highly beneficial to add to the Vision and Mission of the University. They work as excellent Guru's to the faculty as well. DIAT is already taking steps to have such luminaries on the campus. In next 5 years it will be one main agenda. Institutionalization of Chairs will be done and at least 5 such positions would be created.

#### **7. Strengthening Placement Cells**

The name of the institute is strongly dependent upon the industry and academia where the students get placed. Placement cell is highly strengthened in past 2 years and it will continue to grow and become more professional to attract more companies towards DIAT. DIAT will have a dedicated Placement officer so that he/she can take care of all civilian students and uplift placement statistics.

#### **8. International Networking for Research and Training**

National and International MoUs are important to diversify the research domain and collaborate to learn better. This pushes the faculty and students to work at competitive edge and deliver to an international community. MoUs with Universities in the UK, USA and Australia already exist. In next 5 years joint research has to be explored. Joint post-graduate programmes would be targeted. At least 4-5 such dual degree programmes with international universities would be target.

#### **9. Innovation and Incubation Centre for more Start-ups on campus**

The era of conventional jobs is rapidly diminishing and a culture of self-employment is on the anvil. Recent government grants are being offered to boost Incubation of start-ups on the campus. DIAT is already working on those lines. DIAT has established an Innovation and Incubation Centre and the policy is already framed. Two companies are incubated in this facility. At least 3-4 more companies should start on campus would be the agenda for upcoming 5 years.



## **10. Inviting more projects from Industry, PSUs and Private sector**

Government funding for conventional research is largely reduced in recent years. It will continue to reduce in coming years. The industry, other hand becoming more aware of indigenization and “Make in India” philosophy. Industry, therefore has many research ideas which can eventually become novel products. DIAT is gearing up their faculty in this direction. Faculty and students are encouraged to take projects from industry so that they learn to work on deadlines and focused deliverables. This will be encouraged more in the coming years. Atleast 2 Industry project per Department would get the target for upcoming 5 years. This will also help DIAT to become more self-reliant and take lesser grants from DRDO in coming times. Large financial asset development and striving towards financial autonomy and self-reliance would be main focus in upcoming years.

## **11. DIAT as an Online Education Hub**

Online mode of study has become a new normal. Many institutes like IITs in India and Boston/Harvard in the USA have uploaded lectures and small course module in specific topic, which is of large interest to students. Few of such lecturers are compiled together to give small certification courses. DIAT also wishes to develop such resource material for online platforms. These could be used for MOOC courses (by AICTE) or CEP (Continuing Education Programme) programmes which are conducted on national platforms. Such material is being developed by different faculty members at DIAT. In coming 5 years such resource material will be made available by DIAT in the form of lectures and videos.

## **12. DIAT will strive to excel on following grounds:**

1. DIAT will substantially increase the student intake, multidisciplinary capacity and residential facilities in the upcoming years.
2. DIAT will try to run Open Distance Learning (ODL) and online programs, and provide increased opportunities for lifelong learning.
3. DIAT will gradually move towards full autonomy - academic and administrative - to enable a flexible and vibrant culture. The new regulatory system envisioned by this Policy will foster this overall culture of empowerment and autonomy to innovate.
4. DIAT has already geared-up to become an “Institute of National Importance”. We are awaiting a response from the Parliament, which will enable DIAT to achieve higher goals, which would be commensurate with the NEP 2020 vision.

**The Attachment to this document is the actual implementation to realise this vision, via complying to National Education Policy (Attachment 1)**

**Note :** This is an evolving document and will keep on getting up-graded from time-to-time as per the recommendations from National Education Policy of 2020.

**Proposed by**

**Dr Sangeeta Kale  
Director (Policy & Planning)**

**Approved by**

**Vice Chancellor, DIAT**

**Attachment 1**

**DEFENCE INSTITUTE OF ADVANCED TECHNOLOGY  
(DIAT)**

**Document for Implementation of  
National Education Policy (NEP) 2020**

# **National Education Policy 2020**



**Ministry of Human  
Resource Development**

**Government of India**

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**DIAT - HIGHER EDUCATION**  
**Introduction and Philosophy of NEP**

**9. Quality Universities and Colleges: A New and Forward-Looking Vision for India's Higher Education System**

**9.1.** As India moves towards becoming a knowledge society and economy - and keeping in view the requirements of the fourth industrial revolution, characterised by increasing proportion of employment opportunities for creative, multidisciplinary and highly skilled workforce - the higher education system must, at the earliest, be re-adjusted, re-vamped, and re-energised to meet these requirements.

**9.2.** Given these requirements of the 21<sup>st</sup> century, the aim of a quality university or college education must be to develop good, well-rounded, and creative individuals. It must enable an individual to study one or more specialised areas of interest at a deeper level, while at the same time build character, ethical and Constitutional values, intellectual curiosity, scientific temper, creativity, spirit of service, and 21<sup>st</sup> century capabilities across a range of disciplines including the sciences, social sciences, arts, humanities, languages, as well as professional, technical, and vocational crafts. A quality higher education must enable personal accomplishment and enlightenment, constructive public engagement, and productive contribution to society. It must prepare students for more meaningful and satisfying lives and work roles, and enable economic independence. Quality university and college education must, therefore, aim to be both a joy and an opportunity, to which all citizens must have access if they so desire.

**9.3.** At the level of society, the aim of higher education must be to enable the development of an enlightened, socially-conscious, knowledgeable, and skilled nation that can uplift its people and construct and implement robust solutions to its own problems. Higher education must thus form the basis for knowledge creation and innovation in the nation and thereby contribute deeply to a growing national economy. The purpose of quality higher education is, therefore, more than simply the creation of greater opportunities for individual employment; it represents the key to more vibrant, socially-engaged, and cooperative communities and a happier, cohesive, cultured, productive, innovative, progressive, and prosperous nation.

**9.4.** Some of the major problems currently plaguing the higher education system in India include: i) a severely fragmented higher educational ecosystem, with more than 50,000 higher

education institutions (HEIs), a large proportion of which offer only a single programme and have fewer than 100 students and a large percentage of which are commercial enterprises in which little or no education is taking place; ii) poor learning outcomes and development of cognitive skills of students; iii) rigid separation of disciplines, with too much early specialisation and streaming of students into narrow areas of study; iv) a lack of access to higher education, especially in socio-economically disadvantaged areas; v) a lack of teacher and institutional autonomy to innovate and excel; vi) inadequate mechanisms for merit-based career management and progression of faculty and institutional leaders; vii) a lack of research at most universities and colleges, and transparent and competitive peer-reviewed research funding across disciplines; viii) suboptimal governance and leadership of HEIs; ix) a regulatory system that is not empowered to close down fake colleges, while constraining excellent and innovative institutions; x) problems associated with large affiliating universities resulting in poor undergraduate education in colleges.

**9.5.** This policy envisions a complete overhaul and re-energising of the higher education system to overcome these challenges and thereby deliver high-quality higher education, with equity and inclusion, to all young people who aspire to it. The policy's vision includes the following key changes to the current system: (a) moving towards a higher educational system consisting of large, multidisciplinary universities and colleges, with at least one in or near every district; (b) moving towards a more multidisciplinary undergraduate education; (c) moving towards faculty and institutional autonomy; (d) re-vamping curriculum, pedagogy, assessment, and student support for enhanced student experiences; (e) reaffirming the integrity of faculty and institutional leadership positions through merit-appointments and career progression based on teaching, research, and service; (f) establishment of a National Research Foundation to fund outstanding peer-reviewed research and to actively seed research in universities and colleges; (g) governance of HEIs by highly-qualified independent boards having academic and administrative autonomy; (h) "light but tight" regulation by a single regulator for all of higher education, including professional education; and (i) increased access, equity, and inclusion through a range of measures, including open schooling, online education and Open Distance Learning (ODL), keeping in view needs of learners with disabilities, and substantial increases in scholarships at private/philanthropic universities for disadvantaged and underprivileged students.

DIAT being a higher education institute, the above points may be adhered without any modifications.

### **Implementation Details:**

## **10. Institutional Restructuring and Consolidation**



**10.1.** The main thrust of this policy in higher education is to end the fragmentation of higher education by transforming higher education institutions into large multidisciplinary universities, colleges, and HEI clusters, each of which will aim to have 3,000 or more students. This would help build vibrant communities of scholars and peers, break down harmful silos, enable students to become well-rounded across disciplines (including artistic, creative, and analytic subjects as well as sports), develop active research communities across disciplines (including cross-disciplinary research), and increase resource efficiency, both material and human, across higher education. DIAT has been following this from its very beginning, as a university.

**10.2.** DIAT has been striving to move to large multidisciplinary university

**10.3.** DIAT is a multidisciplinary institution of higher learning that offers postgraduate programs, with high-quality teaching, research, and community engagement. It aims to evolve into research-intensive universities (RUs), where it is largely focused on research.

**10.4.** As per NEP 2020, an Autonomous degree-granting College (AC) will refer to a large multidisciplinary institution of higher learning that grants undergraduate degrees and is primarily focused on undergraduate teaching though it would not be restricted to that and it need not be restricted to that and it would generally be smaller than a typical university. DIAT is an autonomous institute does not have any affiliated colleges.

**10.5.** In addition to teaching and research, DIAT will also have other crucial responsibilities, which it will discharge through appropriate resourcing and structures. These include supporting other HEIs in their development, community engagement and service, contribution to various fields of practice, faculty development for the higher education system, and support to school education.

**10.6.** By 2040, DIAT will become multidisciplinary institution and shall have good (in thousands) student enrolments, for optimal use of infrastructure and resources. Since this process will take time, DIAT will firstly plan to become multidisciplinary; and gradually increase student strength to the desired levels. DIAT will substantially increase the student intake, multidisciplinary capacity and residential facilities in the upcoming years.

**10.9.** DIAT will make an effort to run Open Distance Learning (ODL) and online programs, and provide increased opportunities for lifelong learning (SDG4). All ODL programs (and their

components) leading to any diploma or degree will be of standards and quality equivalent to the highest quality programs run by the DIAT.

**10.10.** Each program running at DIAT, if it a single-stream program, will move towards becoming vibrant multidisciplinary program. DIAT will gradually move towards full autonomy - academic and administrative - to enable this vibrant culture.

**10.11.** The new regulatory system envisioned by this Policy will foster this overall culture of empowerment and autonomy to innovate.

**10.12.** The overall higher education sector will be integrated into one higher education system - including professional and vocational education. In the above line, DIAT will be the part of AICTE vision.

**10.13.** A university has only one definition worldwide, namely, a multidisciplinary institution of higher learning that offers undergraduate, graduate, and PhD programs, and engages in high-quality teaching and research. The present complex nomenclature of HEIs in the country as ‘deemed to be university’, ‘affiliating university’, ‘affiliating technical university’, ‘unitary university’ shall be replaced by ‘university’. In this context, DIAT is proposing to change its nomenclature.

The following points which are as per NEP 2020 are discussed in detail (Point-wise) and is documented in **Annexure-1**.

**11. Towards a More Holistic Education**

**12. Optimal Learning Environments and Support for Students**

**13. Motivated, Energised, and Capable Faculty**

**14. Equity and Inclusion in Higher Education**

**15. Reimagining Vocational Education**

**16. Professional Education**

**17. Promoting high-quality research: National Research Foundation**

**18. Effective Governance and Leadership for Higher Education Institutions**

**19. Transforming the Regulatory System of Higher Education**

## Annexure 1

### National Education Policy: Higher Education

Ref.No.	Policy Content	Complied/Not-complied	Comments/Recommendations [if not-complied]	Responsible Section
9.2	Enable an individual to study one or more specialized areas of interest at a deeper level, while at the same time build character, ethical and Constitutional values, intellectual curiosity, scientific temper, creativity, spirit of service, and 21 <sup>st</sup> century capabilities across a range of disciplines including the sciences, social sciences, arts, humanities, languages, as well as professional, technical, and vocational crafts.	Complied	<ol style="list-style-type: none"><li>1. All M.Tech. courses are specialized and hence offer deep-level understandings.</li><li>2. To invoke scientific curiosity, frequent interactions with DRDO laboratories, PSU's and industries are ensured through project dissertations and arranged lectures.</li><li>3. Professional and Vocational trainings are offered through specialized lectures conducted from time-to-time</li><li>4. Inclusion of social sciences, arts, humanities, languages is to be implemented / commented by PGC</li></ol>	PGC: With reference to AICTE model PG curriculum and PGC meeting dated 13 <sup>th</sup> Dec. 2021, the points are complied.
9.2	Prepare students for more meaningful and satisfying lives and work roles, and enable economic independence	Complied	<p>Efforts towards economic independence starts from BoS level itself. This ensures industry and defence experts, who ensure employability.</p> <p>The Placement cell is active in this regard, and continuous feedback is taken from stakeholders, for continual improvements in syllabus.</p>	Placement cell & Department
9.3	Higher education must thus form the basis for knowledge creation and innovation in the nation and thereby contribute deeply to a growing national economy.	Complied	<ol style="list-style-type: none"><li>1. Industry interactions through projects is ensured.</li><li>2. Institute encourages product development and ToT transfers. This helps in contributing towards</li></ol>	IIC center and IQAC Cell

			indigenous product development and hence the economy.	
9.5	Moving towards faculty and institutional autonomy	Complied	DIAT is an autonomous institute	--
9.5	Revamping curriculum, pedagogy, assessment, and student support for enhanced student experiences	Complied	This is a continuous process, at DIAT	PGC
9.5	Reaffirming the integrity of faculty and institutional leadership positions through merit-appointments and career progression based on teaching, research, and service;	Complied	Merit appointments and CAS schemes are meticulously followed	Registrar
9.5	Increased access, equity, and inclusion through a range of measures, including open schooling, online education and Open Distance Learning (ODL), keeping in view needs of learners with disabilities, and substantial increases in scholarships at private/philanthropic universities for disadvantaged and underprivileged students.	NA	-- This is mainly at the central level (at AICTE/UGC level)  Online courses conducted by various departments are hosted on cloud/You tube etc. The programs are conducted for various Govt. Organisations and educational institutes across the country.	--
10.2	Moving to large multidisciplinary universities and HEI clusters is thus the highest recommendation of this policy regarding the structure of higher education.	Complied	DIAT has multi-disciplinary approach.	PGC
10.3	It is envisioned that over a period of time all existing HEIs and new HEIs will evolve into research-intensive universities (RUs), teaching universities (TUs), and autonomous degree-granting colleges (ACs)	Complied	DIAT aims to be a RU	IQAC Cell
10.3	All colleges shall eventually become ACs, which are large multidisciplinary institutions of higher learning primarily focused on undergraduate teaching. A college should therefore either be an autonomous degree-granting institution, or a constituent college of a university - in the latter case, it would be fully a part of the university.	Complied	DIAT is autonomous degree-granting institution	IQAC Cell

10.5	Supporting other HEIs in their development, community engagement and service, contribution to various fields of practice, faculty development for the higher education system, and support to school education.	Complied	DIAT is engaged in hand-holding Kendriya Vidyalaya, National Defence Academy to support their education.	Registrar's Office
10.6	By 2040, all higher education institutions (HEIs) shall become multidisciplinary institutions and shall have student enrolments in the thousands, for optimal use of infrastructure and resources	Action in Progress	In future DIAT can go for increasing students subscriptions	Dean Academics
10.9	There will be a fair and transparent system for determining (increased) levels of public funding support for public HEIs. This system will give an equitable opportunity for all public institutions to grow and develop	Complied	DIAT has transparent systems to obtain and justify funding support from MoD (DDR&D)	Registrar's Office
10.10	All types of institutions will have the option to run Open Distance Learning (ODL) and online programmes.	Complied	Online courses conducted by various departments are hosted on cloud/You tube etc. The program are conducted for various Govt. Organizations and educational institutes across the country.	TPC and Departments
10.14	The present complex nomenclature of HEIs in the country as 'deemed to be university', 'affiliating university', 'affiliating technical university', 'unitary university' shall be replaced by 'university'.	Action in Progress	DIAT is in the process of applying for change of nomenclature.	Action by UGC
11.1	The very idea that all branches of creative human endeavour - including mathematics, science, vocational subjects, professional subjects, and soft skills - should be considered 'arts' indeed has distinctly Indian origins.	Complied	PGC has circulated revised M.Tech structure by including these courses in the of Audit courses	PGC

11.4	Even engineering schools, such as the IITs, will move towards more holistic education with more arts and humanities, while arts and humanities students will aim to learn more science -while all will make an effort to learn more vocational subjects. India's rich legacy in the arts as well as in the sciences and beyond will significantly help in making the move towards a holistic arts education an easy and natural transition.	Complied	PGC has circulated revised M.Tech structure by including these courses in the of Audit courses	PGC
11.5	Graduate-level (master's and doctoral) education in large multidisciplinary universities, while providing rigorous research-based specialisation, would also provide opportunities for multidisciplinary work, including in academia, government and industry.	Complied	DIAT has excellent research-based education. All M.Tech. programmes have options of choosing elective courses from other disciplines. The second year of M.Tech. is mainly dedicated towards research / development based projects. The PhD programs have more applied topics to inculcate industry-oriented research	Dean Academics and Dean Research
11.9	HEIs will have the flexibility to offer different designs of Masters programs, (a) there may be a two-year program with the second year devoted entirely to research for those who have completed the three-year Bachelors program; (b) for students completing a four- year Bachelors program with Research there could be a one-year Masters program and (c) there may be an integrated five-year Bachelor's/Masters program. Undertaking a PhD shall require either a Master's degree or a 4-year Bachelor's degree with Research. The M.Phil. program shall be discontinued.	Complied	DIAT has 2 year M.Tech. program.  DIAT also has MS-by Research as one year program.	PGC
11.10	Model public universities for holistic education, at par with IITs, IIMs, etc., called MERUs (Multidisciplinary Education and Research Universities) will be set up and will aim to reach the global status of, e.g., the Ivy League Universities in the U.S. They will help set the highest standards for holistic education across India.	Partially-complied	DIAT has applied for it to be a Institute of National Importance	IQAC Cell and Deans

11.13	HEIs as part of multidisciplinary education will focus on research & innovation by setting up start-up incubation centres, technology development centres, centres in frontier areas of research, greater industry-academic linkages, and inter-disciplinary research including humanities/social science research.	Partially-Complied	DIAT is well equipped with: a) Multidisciplinary education b) Research Innovations c) Incubation Centre d) Schools and Centres for high-end research in upcoming technological domains  A connect to social science requires some policy at DIAT level	IQAC Cell and Deans
<b>12.</b>	<b>Optimal Learning Environments and Support for Students</b>			
Ref.No.	Policy Content	Complied/Not-complied	Comments/Recommendations [if not-complied]	Responsible Section
12.1	Effective learning requires a comprehensive approach that involves appropriate curriculum, engaging pedagogy, continuous formative assessment, and adequate student support. The curriculum must be interesting and relevant, and updated regularly to align with the latest knowledge requirements and to meet specified learning outcomes. High-quality pedagogy is then necessary to successfully impart the curricular material to students; pedagogical practices determine the learning experiences that are provided to students, thus directly influencing learning outcomes. The assessment methods must be scientific, designed to continuously improve learning and test the application of knowledge. Last but not least, the development of capacities that promote student wellness such as fitness, good health, psycho-social well-being, and sound ethical grounding are also critical for high-quality learning.	Partially-Complied	1. BOS being conducted periodically with appropriate time gap to update the curriculum to align with the latest knowledge requirements and to meet specified learning outcomes. 2. Suitable continuous formative assessments being adopted. 3. Student activity centre (SAC) should be established to promote student wellness such as fitness, good health, psycho-social well-being, and sound ethical grounding etc. 4. The institute level resources and infrastructure, such as quality libraries, classrooms, labs, technology, sports/recreation areas, student discussion spaces, and dining areas are being provided / enhanced.	Dean Academics

2.2	<p>First, in order to promote creativity, institutions and faculty will have the autonomy to innovate on matters of curriculum, pedagogy, and assessment within a broad framework of higher education qualifications that ensures consistency across institutions and programs and across the ODL, online, and traditional ‘in-class’ modes. Accordingly, curriculum and pedagogy will be designed by institutions and motivated faculty to ensure a stimulating and engaging learning experience for all students, and continuous formative assessment will be used to further the goals of each programme. All assessment systems shall also be decided by the HEI, including those that lead to final certification. The Choice Based Credit System (CBCS) will be revised for instilling innovation and flexibility. HEIs shall move to a criterion-based grading system that assesses student achievement based on the learning goals for each programme, making the system fairer and outcomes more comparable. HEIs shall also move away from high-stakes examinations towards more continuous and comprehensive evaluation.</p>	Complied	<ol style="list-style-type: none"> <li>1. Autonomy given to the Faculty to propose course curriculum, pedagogy and assessment with support of BOS and academic council.</li> <li>2. DIAT may offer refresher courses, workshops &amp; training to the Tri Services, Govt. Officers, &amp; PSU in addition to the civilians.</li> </ol>	TPC and Department
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12.3	<p>Second, each institution will integrate its academic plans ranging from curricular improvement to quality of classroom transaction - into its larger Institutional Development Plan (IDP). Each institution will be committed to the holistic development of students and create strong internal systems for supporting diverse student cohorts in academic and social domains both inside and outside formal academic interactions in the classroom. For example, all HEIs will have mechanisms and opportunities for funding of topic-centred clubs and activities organized by students with the help of faculty and other experts as needed, such as clubs and events dedicated to science, mathematics, poetry, language, literature, debate, music, sports, etc. Over time, such activities could be incorporated into the curriculum once appropriate faculty expertise and campus student demand is developed. Faculty will have the capacity and training to be able to approach students not just as teachers, but also as mentors and guides.</p>	Complied	<p>1. Skill enabling courses can be adopted as per faculties own interest other than teaching.</p> <p>2. Topic-centred clubs and activities should be established.</p>	Dean Academics , Departments and SCEC Committee
12.4	<p>Third, students from socio-economically disadvantaged backgrounds require encouragement and support to make a successful transition to higher education. Universities and colleges will thus be required to set up high-quality support centres and will be given adequate funds and academic resources to carry this out effectively. There will also be professional academic and career counselling available to all students, as well as counsellors to ensure physical, psychological and emotional well-being.</p>	Partially Complied	<p>Students from Socio-economically disadvantaged backgrounds should be encouraged by providing:</p> <ul style="list-style-type: none"> <li>i. Enhance the number of text books from Library.</li> <li>ii. Special professional &amp; academic training should be arranged</li> <li>iii. Concession in the tuition fees as per norms.</li> </ul>	Director Policy and planning along with IQAC, Library

12.5	<p>Fourth, ODL and online education provide a natural path to increase access to quality higher education. In order to leverage its potential completely, ODL will be renewed through concerted, evidence-based efforts towards expansion while ensuring adherence to clearly articulated standards of quality. ODL programmes will aim to be equivalent to the highest quality in-class programmes available. Norms, standards, and guidelines for systemic development, regulation, and accreditation of ODL will be prepared, and a framework for quality of ODL that will be recommendatory for all HEIs will be developed.</p>	Complied.	<p>Online courses conducted by various departments are hosted on cloud/You tube etc. The programs are conducted for various Govt. Organisations and educational institutes across the country.</p>	PGC
12.6	<p>Finally, all programmes, courses, curricula, and pedagogy across subjects, including those in-class, online, and in ODL modes as well as student support will aim to achieve global standards of quality.</p>	Compiled	<p>ALL programmes such as M.Tech / M.Sc / Ph.D etc. at DIAT maintain the Global Standards.</p>	PGC and DRC
12.7	<p>The various initiatives mentioned above will also help in having larger numbers of international students studying in India, and provide greater mobility to students in India who may wish to visit, study at, transfer credits to, or carry out research at institutions abroad, and vice versa. Courses and programmes in subjects, such as Indology, Indian languages, AYUSH systems of medicine, yoga, arts, music, history, culture, and modern India, internationally relevant curricula in the sciences, social sciences, and beyond, meaningful opportunities for social engagement, quality residential facilities and on-campus support, etc. will be fostered to attain this goal of global quality standards, attract greater numbers of international students, and achieve the goal of ‘internationalization at home’.</p>	Complied	<p>PGC has circulated revised M.Tech structure by including these courses in the of Audit courses</p>	PGC

12.8	<p>India will be promoted as a global study destination providing premium education at affordable costs thereby helping to restore its role as a VishwaGuru. An International Students Office at each HEI hosting foreign students will be set up to coordinate all matters relating to welcoming and supporting students arriving from abroad. Research/teaching collaborations and faculty/student exchanges with high-quality foreign institutions will be facilitated, and relevant mutually beneficial MOUs with foreign countries will be signed. High performing Indian universities will be encouraged to set up campuses in other countries, and similarly, selected universities e.g., those from among the top 100 universities in the world will be facilitated to operate in India. A legislative framework facilitating such entry will be put in place, and such universities will be given special dispensation regarding regulatory, governance, and content norms on par with other autonomous institutions of India. Furthermore, research collaboration and student exchanges between Indian institutions and global institutions will be promoted through special efforts. Credits acquired in foreign universities will be permitted, where appropriate as per the requirements of each HEI, to be counted for the award of a degree.</p>	Complied		PGC
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12.9	Students are the prime stakeholders in the education system. Vibrant campus life is essential for high-quality teaching-learning processes. Towards this end, students will be given plenty of opportunities for participation in sports, culture/arts clubs, eco-clubs, activity clubs, community service projects, etc. In every education institution, there shall be counselling systems for handling stress and emotional adjustments. Furthermore, a systematized arrangement shall be created to provide the requisite support to students from rural backgrounds, including increasing hostel facilities as needed. All HEIs will ensure quality medical facilities for all students in their institutions.	Complied	Existing facilities in DIAT has to be enhanced in the larger scale.	TM Deptt
12.10	Financial assistance to students shall be made available through various measures. Efforts will be made to incentivize the merit of students belonging to SC, ST, OBC, and other SEDGs. The National Scholarship Portal will be expanded to support, foster, and track the progress of students receiving scholarships. Private HEIs will be encouraged to offer larger numbers of free ships and scholarships to their students.	Complied	AICTE and DIAT funding is given to students	DIAT
<b>13. Motivated, Energized, and Capable Faculty</b>				

13.1	<p>The most important factor in the success of higher education institutions is the quality and engagement of its faculty. Acknowledging the criticality of faculty in achieving the goals of higher education, various initiatives have been introduced in the past several years to systematize recruitment and career progression, and to ensure equitable representation from various groups in the hiring of faculty. Compensation levels of permanent faculty in public institutions have also been increased substantially. Various initiatives have also been taken towards providing faculty with professional development opportunities. However, despite these various improvements in the status of the academic profession, faculty motivation in terms of teaching, research, and service in HEIs remains far lower than the desired level. The various factors that lie behind low faculty motivation levels must be addressed to ensure that each faculty member is happy, enthusiastic, engaged, and motivated towards advancing her/his students, institution, and profession. To this end, the policy recommends the following initiatives to achieve the best, motivated, and capable faculty in HEIs.</p>	Partially-Complied	<p>Faculties are encouraged by providing: Continuing Professional Development (CPD), yearly grant to purchase academic text books, seed money for initial take up initial research, to attend conferences in India and abroad to enhance their domain knowledge.</p>	Dean Academics
13.2	<p>As the most basic step, all HEIs will be equipped with the basic infrastructure and facilities, including clean drinking water, clean working toilets, blackboards, offices, teaching supplies, libraries, labs, and pleasant classroom spaces and campuses. Every classroom shall have access to the latest educational technology that enables better learning experiences.</p>	Complied	<p>Basic facilities should be maintained.</p>	Registrar

13.3	Teaching duties also will not be excessive, and student-teacher ratios not too high, so that the activity of teaching remains pleasant and there is adequate time for interaction with students, conducting research, and other university activities. Faculty will be appointed to individual institutions and generally not be transferable across institutions so that they may feel truly invested in, connected to, and committed to their institution and community.	Complied	Implemented	Dean Academics
13.4	Faculty will be given the freedom to design their own curricular and pedagogical approaches within the approved framework, including textbook and reading material selections, assignments, and assessments. Empowering the faculty to conduct innovative teaching, research, and service as they see best will be a key motivator and enabler for them to do truly outstanding, creative work.	Complied	Implemented	Dean Academics and HoDs
13.5	Excellence will be further incentivized through appropriate rewards, promotions, recognitions, and movement into institutional leadership. Meanwhile, faculty not delivering on basic norms will be held accountable.	Complied	Implemented	Vice Chancellor

13.6	<p>In keeping with the vision of autonomous institutions empowered to drive excellence, HEIs will have clearly defined, independent, and transparent processes and criteria for faculty recruitment. Whereas the current recruitment process will be continued, a 'tenure-track' i.e., suitable probation period shall be put in place to further ensure excellence. There shall be a fast-track promotion system for recognizing high impact research and contribution. A system of multiple parameters for proper performance assessment, for the purposes of 'tenure' i.e., confirmed employment after probation, promotion, salary increases, recognitions, etc., including peer and student reviews, innovations in teaching and pedagogy, quality and impact of research, professional development activities, and other forms of service to the institution and the community, shall be developed by each HEI and clearly enunciated in its Institutional Development Plan (IDP).</p>	Complied	Adopted	Registrar
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13.7	<p>The presence of outstanding and enthusiastic institutional leaders that cultivate excellence and innovation is the need of the hour. Outstanding and effective institutional leadership is extremely important for the success of an institution and of its faculty. Excellent faculty with high academic and service credentials as well as demonstrated leadership and management skills will be identified early and trained through a ladder of leadership positions. Leadership positions shall not remain vacant, but rather an overlapping time period during transitions in leadership shall be the norm to ensure the smooth running of institutions. Institutional leaders will aim to create a culture of excellence that will motivate and incentivize outstanding and innovative teaching, research, institutional service, and community outreach from faculty members and all HEI leaders.</p>	Complied	Adopted	Deans, IIC, SCEC
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Ref.No.	Policy Content	Complied/Not-complied	Comments/Recommendations [if not-complied]	Responsible Section
<b>16. Reimagining Vocational Education</b>				
16.5	Higher education institutions will offer vocational education either on their own or in partnership with industry and NGOs. The B.Voc.degrees introduced in 2013 will continue to exist, but vocational courses will also be available to students enrolled in all other Bachelor's degree programmes, including the 4-year multidisciplinary Bachelor 's programmes. HEIs will also be allowed to conduct short-term certificate courses in various skills including soft skills. 'Lok Vidya', i.e., important vocational knowledge developed in India, will be made accessible to students through integration into vocational education courses. The possibility of offering vocational courses through ODL mode will also be explored.	Partially Complied	1. The students should be given practical skill based training, like lab equipments, software and other soft skills in sync with industry requirements. 2. Special workshops are conducted for this. 3. Professional and Vocational trainings are offered through specialised lectures conducted from time-to-time.	TPC
16.6	Vocational education will be integrated into all school and higher education institutions in a phased manner over the next decade. Focus areas for vocational education will be chosen based on skills gap analysis and mapping of local opportunities.	Partially Complied	Input may be taken from local or relevant industries for skill requirements	TPC and HoDs
16.7	Different models of vocational education, and apprenticeships, will also be experimented by higher education institutions.	Action in Progress	HOD may give input about their respective Depts on this.	TPC and HoDs
16.7	Incubation centres will be set up in higher education institutions in partnership with industries.	Complied	DIAT has set-up an incubation cell for entrepreneurship.	IIC
<b>17. Catalysing Quality Academic Research in All Fields through a new National Research Foundation</b>				

17.2	A robust ecosystem of research is perhaps more important than ever with the rapid changes occurring in the world today, e.g., in the realm of climate change, population dynamics and management, biotechnology, an expanding digital marketplace, and the rise of machine learning and artificial intelligence.	Partially Complied	DIAT has excellent research infrastructure and output. It needs to strengthen further.	Dean Research
17.4	The societal challenges that India needs to address today, such as access for all its citizens to clean drinking water and sanitation, quality education and healthcare, improved transportation, air quality, energy, and infrastructure, will require the implementation of approaches and solutions that are not only informed by top-notch science and technology but are also rooted in a deep understanding of the social sciences and humanities and the various socio-cultural and environmental dimensions of the nation. Facing and addressing these challenges will require high- quality interdisciplinary research across fields that must be done in India and cannot simply be imported; the ability to conduct one 's own research also enables a country to much more easily import and adapt relevant research from abroad.	Action to be taken	DIAT is in the right direction for addressing the issues and striving to achieve excellence in supporting Defence technologies.	Registrar

17.6	<p>Research and innovation at education institutions in India, particularly those that are engaged in higher education, is critical. Evidence from the world's best universities throughout history shows that the best teaching and learning processes at the higher education level occur in environments where there is also a strong culture of research and knowledge creation; conversely, much of the very best research in the world has occurred in multidisciplinary university settings.</p>	Complied	<p>DIAT is actively engaged in multidisciplinary research and development activities. It needs to strengthen further in days to come.</p>	Dean Research
<b>18. Transforming the Regulatory System of Higher Education</b>				
18.3	<p>NHERC will be set up to regulate in a 'light but tight' and facilitative manner, meaning that a few important matters particularly financial probity, good governance, and the full online and offline public self-disclosure of all finances, audits, procedures, infrastructure, faculty/staff, courses, and educational outcomes will be very effectively regulated. This information will have to be made available and kept updated and accurate by all higher education institutions on a public website maintained by NHERC and on the institutions' websites. Any complaints or grievances from stakeholders and others arising out of the information placed in public domain shall be adjudicated by NHERC.</p>	Complied	--	Registrar
18.4	<p>The primary mechanism to enable such regulation will be accreditation. The second vertical of HECI will, therefore, be a 'meta-accrediting body', called the National Accreditation Council (NAC). Accreditation of institutions will be based</p>	Partially complied	It is a continuous Process.	IQAC

	<p>primarily on basic norms, public self-disclosure, good governance, and outcomes, and it will be carried out by an independent ecosystem of accrediting institutions supervised and overseen by NAC. The task to function as a recognized accreditor shall be awarded to an appropriate number of institutions by NAC. In the short term, a robust system of graded accreditation shall be established, which will specify phased benchmarks for all HEIs to achieve set levels of quality, self-governance, and autonomy. In turn, all HEIs will aim, through their Institutional Development Plans (IDPs), to attain the highest level of accreditation over the next 15 years, and thereby eventually aim to function as self-governing degree-granting institutions/clusters. In the long run, accreditation will become a binary process, as per the extant global practice.</p>			
18.5	<p>The third vertical of HECI will be the Higher Education Grants Council (HEGC), which will carry out funding and financing of higher education based on transparent criteria, including the IDPs prepared by the institutions and the progress made on their implementation. HEGC will be entrusted with the disbursement of scholarships and developmental funds for launching new focus areas and expanding quality programme offerings at HEIs across disciplines and fields.</p>	Complied	Adopted	Registrar and Finance
<b>19. Effective Governance and Leadership for Higher Education Institutions</b>				

19.5	While being provided with adequate funding, legislative enablement, and autonomy in a phased manner, all HEIs, in turn, will display commitment to institutional excellence, engagement with their local communities, and the highest standards of financial probity and accountability. Each institution will make a strategic Institutional Development Plan on the basis of which institutions will develop initiatives, assess their own progress, and reach the goals set therein, which could then become the basis for further public funding. The IDP shall be prepared with the joint participation of Board members, institutional leaders, faculty, students, and staff.	Presently practiced	This is a continuous process.	Registrar and Deans
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Ref.No.	Policy Content	Complied/Not-complied	Comments/Recommendations [if not-complied]	Responsible Section
<b>20. Professional Education</b>				
20.1	Preparation of professionals must involve an education in the ethic and importance of public purpose, an education in the discipline, and an education for practice. It must centrally involve critical and interdisciplinary thinking, discussion, debate, research, and innovation.	Complied	--	Dean Academic/ IQAC

20.2	Professional education thus becomes an integral part of the overall higher education system. Stand-alone agricultural universities, legal universities, health science universities, technical universities, and stand-alone institutions in other fields, shall aim to become multidisciplinary institutions offering holistic and multidisciplinary education.	Complied	Multidisciplinary specialization already at place	PGC
20.6	Technical education includes degree and diploma programs in, engineering, technology, management, architecture, town planning, pharmacy,	Complied	DIAT gives Master in Technology Degrees	PGC

	hotel management, catering technology etc.,			
<b>23. Technology Use and Integration</b>				
23.2	Given the explosive pace of technological development allied with the sheer creativity of tech-savvy teachers and entrepreneurs including student entrepreneurs, it is certain that technology will impact education in multiple ways, only some of which can be foreseen at the present time.	Complied	New technologies are discussed and taught here such as AI; VR; Block chain; python; Quantum computing, etc.	HoDs
23.3-23.9	Use and integration of technology to improve multiple aspects of education will be supported and adopted, provided these interventions are rigorously and transparently evaluated in relevant contexts before they are scaled up.	Complied	DIAT has various modes of ICT technology in placed	HoDs

	<p>The thrust of technological interventions will be for the purposes of improving teaching-learning and evaluation processes, Supporting teacher preparation and professional development, enhancing educational access, and streamlining educational planning, management, and administration including processes related to admissions, attendance, assessments, etc.</p> <p>Particular attention will need to be paid to emerging disruptive technologies that will necessarily transform the education system</p> <p>This policy has been formulated at a time when an unquestionably disruptive technology</p> <p>- Artificial Intelligence (AI)</p> <p>3D/7D Virtual Reality - has emerged in response to MHRD's formal recognition of a new disruptive technology, the National Research Foundation will initiate or expand research efforts in the technology.</p>	Complied	<p>DIAT's administrative and academic work is mostly complied through ICT technology.</p> <p>Research on core and advance study on AI applications are present.</p>	HoDs
23.10	<p>A rich variety of educational software, for all the above purposes, will be developed and made available for students and teachers at all levels.</p>	Partially Complied	<p>Faculties and students should promote all their knowledge domain through ICT technology and make it available online.</p>	HoDs



23.11	Universities will aim to offer Ph.D. and Masters programmes in core areas such as Machine Learning as well as multidisciplinary fields “AI + X” and professional areas like health care, agriculture, and law.	Complied	DIAT’s some specializations fall under this category.	HoDs
<b>24. Online and Digital Education: Ensuring Equitable Use of Technology</b>				
24.1	The National Education Policy 2020 recognizes the importance of leveraging the advantages of technology while acknowledging its potential risks and dangers.	Complied	<ul style="list-style-type: none"> <li>• DIAT is using online education tools and faculties are aware about its use.</li> <li>• Infrastructure supported by ICT based blended class rooms.</li> <li>• However, for fostering creativity and promotion for using these; training and incentives for teachers can be given for creating towards digital platform.</li> </ul>	TPC and Library
24.3	Teachers require suitable training and development to be effective online educators.			
24.4	The emergence of digital technologies and the emerging importance of leveraging technology for teaching-learning at all levels from school to higher education			
24.5	Creating a Dedicated Unit for Building of World Class, Digital Infrastructure, Educational Digital Content and Capacity			