

**Defence Institute of Advanced Technology
(Deemed To Be University), Girinagar, Pune-411025**

Office of Dean (Sponsored Research)

1. The office of Dean (SR) is looking after the work of Research & Development cell (including research, foreign & industry collaborations).
2. List of Sponsored Research Projects and List of MoUs are attached as Annexure-A and Annexure-B respectively.

Annexure-A

Details of Sponsored Projects

Projects Sanctioned during Year 2024

Sr. No	Name of Faculty	Name of Department	Role of Faculty (PI/Co-PI)	Title of Sponsored Project	Funding Agency	Sanctioned Project No with Date	Sanctioned Amount and Duration	Status (Completed with Date /Ongoing)
1.	Prof. Bazil Raj Prof. K.P Ray	Electronics Engg.	PI Co-PI	Development of Foliage Penetration Radar	*** Classified	01/01/2024	Rs. 890.00 Lakhs	Ongoing
2.	Dr. T. Umasankar Patro	Metallurgical & Materials Engineering	PI	Development of open-cell polyurethane foam with simultaneous improvement in sound insulation and fire-retardant properties	Naval Research Board	25 Jan 2024	Rs. 27.869 Lakhs	Ongoing
3.	Prof. Sangeeta Kale	Applied Physics	PI	Progression from a well-validated prototype of a non-invasive, blood-free RBC indices and morphology detector towards a product in a market	BITS BioCynTiH	14 Feb 2024	Rs 27.50 Lakhs	Ongoing
4.	Dr. Shymal Mandal	Applied Physics	PI	Design and development of ultrafast fiber laser for broadband THz generation and detection	CARS-DRDO	26 Feb 2024	Rs. 138.00 Lakhs	Ongoing
5.	Prof. Sangeeta Kale	Applied Physics	PI	Fabrication of functionalised flexible resonators as nerve gas detectors	BRNS-DAE	Feb 2024	Rs 40.00 Lakhs	Ongoing

6.	Dr. Vijay Hiwarkar	Metallurgical & Materials Engineering	PI	Fatigue resistance of selectively laser-melted (SLM) Ti-6Al-4V alloy	SERB-DST	19 Feb 2024	Rs. 45.72136 Lakhs	Ongoing
7.	Dr. Rahul Yadav	School of Energy & Environmental systems	PI	Coupled 1D-3D Dynamic Simulations of Hydrogen Refuelling station with pressure Cascading	DIAT	08 Feb 2024	Rs. 9.86 Lakhs	Ongoing
8.	Dr. Manisha Nene	School of Computer Engg & Mathematical Sciences	PI	Proposal to conduct Security Analysis of Modern Hash Functions and Password Hashing Schemes using Crypt Analysis	DIAT	18 Mar 2024	Rs. 9.90 Lakhs	Ongoing
9.	Dr. Vijay Hiwarkar	Metallurgical & Materials Engineering	PI	Analysis and Design of GP Cartridge Assembly	HEMRL	26 March 2024	Rs. 9.97 Lakhs	Ongoing

Projects Sanctioned during Year 2023

Sr. No	Name of Faculty	Name of Department	Role of Faculty (PI/Co-PI)	Title of Sponsored Project	Funding Agency	Sanctioned Project No with Date	Sanctioned Amount and Duration	Status (Completed with Date /Ongoing)
1.	Dr. Shanmugasundaram T.	Metallurgical & Materials Engineering	PI	Development of high-entropy alloys electrodes for hydrogen-generation from sea water electrolysis	Ministry of Earth Science (MoES)	MoES/PAMC/DOM/48/2023 (E-12936) DTD. 26 Dec. 2023	Rs. 71.63785 Lakhs 02 Years	Ongoing
2.	Dr. A.V.R. Murthy and Suwarna Datar	Applied Physics	PI Co-PI	Biophysical investigation on lipid nanoparticle interactions in biomimetic lipid membranes.	DIAT	DIAT/F/Admi n/Project/OM dated 09 th Nov 2023	Rs. 10.00 Lakhs 2 Years	Ongoing

3.	Dr. Sunil Chandel	Mechanical Engg.	PI	Study of an Air Lift System for vertical transport of Sea Water Nodule Slurry	Ministry of Earth Science (MoES)	DIAT/F/Admi n/Project/OM dated/Corr/p-49 Dtd. 01 Nov 2023	Rs. 34.49392 Lakhs	Ongoing
4.	Dr. Rishi Raj Sharma	Electronics Engg	PI	An advanced signal processing and doppler signature based novel methodology for contract f-free heart rate measurement	DIAT	DIAT/F/Admi n/Project/OM dated 17 Oct 2023	Rs. 8.45 Lakhs 2 Years	Ongoing
5.	Dr. Shanmugasundaram T.	Metallurgic al & Materials Engineerin g	PI	Development of high-temperature high entropy alloys for aero engine applications	GTRE	GTRE/23CR0 004/MTG/GN/ CMS-III Year: 2023 2023-2026	Rs. 282.00 Lakhs	Ongoing
6.	Prof. Sangeeta Kale & Ms. Prajkta VK	Applied Physics	PI Co-PI	Development of tactile sensors for object identification and gripping using a combination of sensing materials and sensor arrays.	CARS R&DE (Engrs),Pune	DIAT/F/Adm/ Project/OM/C orr/P-49 dtd.10April 2023	Rs. 95.75 Lakhs 02 Years	Ongoing
7.	Dr. Ramkrishna Bharath	School of Computer Engineerin g and Mathematic al Science	PI	Development of Data-Driven Machine Learning Algorithms for Engine Health Prognostics based on FADEC data.	ADA	ADA/PS/IVH M- DIAT/3301/20 23/1 Dt:17/02/2023	Rs. 9.72757 Lakhs 1 Year	Ongoing
8.	Dr Upasna Singh	School of Computer Engineerin g and Mathematic al Science	PI	Unified Drone Forensic Tool for fly Reconstruction, Resident file, Directories, Network Artifacts, Events	DSCI	Dt:15/02/2023	Rs. 4.60 Lakhs 6 Months	Ongoing
9.	Dr. Ajay Mishra	Aerospace	PI Co-PI	Aerodynamic Characterization of Grid Fins in Subsonic Regime	ARMREB	ARMREB/AD MB/2023/266 dt:12/01/2023	Rs. 44.64952 Lakhs	Ongoing

	Dr. Ganpati Joshi						3 Years	
10	Dr. Sunita Dhavale	School of Computer Engineering and Mathematical Science	PI	Prognostic Engine Health Assessment based on Borescope Image using AI Approach	ADA	ADA/PS/IVH MDIAT/3301/2023/2 Dt:17/02/2023	R. 21.00039 Lakhs 1 Year	Ongoing
11	Dr. Fiyanshu Kaka	Metallurgical & Materials Engineering	Co-PI	Thermal Barrier Coatings with Enhanced Radiation Rejection Performance: Computational Design to Prototype Fabrication	DIAT	DIAT/F/Admin/Project/OM dated 23 rd May 2023	Rs 7.85 Lakhs	Ongoing
12	Dr. Bhaskar Majumdar	Metallurgy and Materials Engineering	PI	Futuristic W Alloys and Composites.	ARMREB	ARMREB/MAA/2023/276 Sept 2022	Rs. 55.36 Lakhs 3 years (Sept '22 to Sept '26)	Ongoing
13	Prof. SVSSNVG Krishna Murthy	Applied Mathematics	Co-PI(s) : Prof. B V Rathish Kumar (IIT Kanpur) International PI : Prof. Kambiz Vafai (University of California, Riverside (UCR))	Multiphysics & Entropy Generation in Complex Porous Cavities with Nanofluids under Magnetic Effect: Modelling & Simulation	SPARC, Min. of Education, Govt of India	No.: SPARC/2019-2020/P2465/S L Dt.: 28.07.2023	Rs. 50.77347 Lakhs	Ongoing
14	Dr. Suvarna Datar	Applied Physics	PI	Development of Sensor Array Systems detection of H2S, NO and CO in breath sample of mountaineers at high altitude.	ER & IPR (DRDO)	ERIP/ER/2023 04001/M/01/1823 dtd. 21 June 2023	Rs. 112.13940 Lakhs 3 Years	Ongoing

						w.e.f 10 Aug 2023	w.e.f 10 Aug 2023	
15	Dr. AA Bazil Raj	Electronics	PI	NXXO-CO3-PS-Study	DIAT	DIAT/F/Adm/Project/OM/Corr/P-49. 06 Sept. 2023	Rs. 5.00 Lakhs 06 months w.e.f. 06 Sept 2023	Ongoing
16	Dr. Upasana Singh	School of Computer Engineering and Mathematical Science	PI	Drone forensics Tool (DFT) for Fly path Reconstruction, Resident,Files, Directories, Network Artifacts and Event Logs Analysis	DIAT	DIAT/F/Adm/Project/OM/Corr/P-49. 06 Sept. 2023	Rs. 2.48732 Lakhs	Ongoing
17	Dr. Amrita Nighojkar, Prof. Balasubramanian K	Technology Management Metallurgical & Materials Engineering	PI Co-PI	Artificial Intelligence-enabled analysis of sludge-derived biochar for the treatment of heavy metal and dye pollutants in aqueous system	DIAT	DIAT/F/Adm/Project/OM/Corr/P-49. 08 Sept. 2023 (02 Years)	Rs. 9.39 Lakhs	Ongoing
18	Dr. Bhaskar Majumdar Dr. Shanmugamsundaram T	Metallurgical & Materials Engineering	PI Co-PI	Futuristic W Alloys and Composites	ARMREB	ARMREB/M AA/2023/276 DTD. 07 July 2023	Rs. 53.08486 Lakhs 03 Years w.e.f. 22 Sept 2023	Ongoing

19	Dr. Rajesh K. Singh	Electronics	PI	Development of wide band Antenna array and wide band RF Power Combiner/Splitter Network for wideband RF systems	CARS SSPL (DRDO)	1115/TS/SPL/ CARS-104/23 DTD. 08 Aug 2023	Rs. 13.53 Lakhs 01 Year	Ongoing
20	Dr. TU Patro	Metallurgical & Materials Engineering	PI	Development of polymer lend electrolyte for batteries with morphology optimization and improved ionic transport through experimental and computational techniques	DIAT	DIAT/F/Adm/ Project/OM/C orr/P-49. 12 Sept. 2023 (01 Years)	Rs. 8.94 Lakhs 01 Year	Ongoing
21	Dr. Sushma Kumari	School of Computer Engineering and Mathematical Science	PI	Random Projection for enhanced machine learning algothims: A Comprehensive Investigation	DIAT	DIAT/F/Adm/ Project/OM/C orr/P-49. 12 Sept. 2023 (02 Years)	Rs. 8.29150 Lakhs (02 Years)	Ongoing
22	Dr. Nilesh Ware	Technology Management	PI	Study of physics of failure-based approach towards reliability enhancements of TRMs (AAAU) of phased array data.	CARS LRDE (DRDO)	LRDE/CARS- 93/DQA/2023 DTD. 6 June 2023	Rs. 10.00 Lakhs 15 Months	Ongoing
23	Prof. D.G. Thakur	Mechanical Engg.	PI	Numerical Investigation of Ballistic Impact on Additively manufactured AISi10Mg Alloy for Aerospace Applications	DIAT	DIAT/F/Adm/ Project/OM/C orr/P-49. 11 Jan. 2023 10 Months	4.50 lakhs	Completed

24	Dr. TU Patro Dr. Fiyanshu Kaka	Metallurgical & Materials Engineering	PI Co-PI	Development of Open Cell polyurethane foam with simultaneous improvement in sound insulation and fire-retardant properties	NRB	DGTM/NRB/GIA/23-24/252 DTD. 01 Nov 2023	Rs. 27.869 Lakhs	Ongoing
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Projects Sanctioned during Year 2022

Sr. No	Name of Faculty	Name of Department	Role of Faculty (PI/Co-PI)	Title of Sponsored Project	Funding Agency	Sanctioned Project No with Date	Sanctioned Amount and Duration	Status (Completed with Date /Ongoing)
1.	Abhilash MT	Electronics Engineering Department	Co-PI (In collaboration with IIT Jammu, IIT Hyderabad, MACE Kerala, IIT BHU)	Development of Physical layer technologies and prototypes of Acoustic Modem and performance evaluation by channel characterization & modelling	Naval Research Board	DIAT/F/Adm/Project/OM/P-49/dated 25 Feb 2022	Rs 47.3827 Lakhs 3 Year	Ongoing
2.	Dr. Shanmugasundaram T.	Metallurgical & Materials Engineering	PI	Development and coating of Complex Concentrated Alloys	NMRL, Ambernath, NMRL /NMR255 /RSQR /DIAT Pune	NMRL, Ambernath, NMRL /NMR255 /RSQR /DIAT Pune Year: 2022	Rs. 10.00 Lakhs 2022-Aug 2023	Ongoing

3.	Dr. Shanmugasundaram T.	Metallurgical & Materials Engineering	PI	High strength and ductile HEAs for naval structural applications	NRB	NRB-501/MAT/22-23 dt:23/11/2022	Rs. 50.00 Lakhs and 03 Years	Ongoing
4.	Dr. Sumati Sidharth	Technology Management	PI	Impact of Team Effectiveness on Performance of project teams at NPOL-Exploratory Study and Analysis	CARS from NPOL	NPOL/23CR0004/TMD/GN/LP dtd.01 Jun 2022	Rs. 9.90 Lakhs and 18 Months	Ongoing
5.	Dr. Chetan J Bhongale	Applied Chemistry	PI	Exploratory Research on Fabrication of Bioprocess-inspired CaCO ₃ /OM Composites with unique properties: Biomimicking sea-shells	DIAT	DIAT/F/Adm/Project/OM/Corr/P-49 19 Oct 2022	Rs. 9.2786 Lakhs 02 Years	Ongoing
6.	Dr. K. Srinivasan	School of Quantum Technologies	PI	Development of Compact and High Brightness Entangled Photon Source	DIAT	DIAT/F/Adm/Project/OM/Corr/P-49 DTD. 26 SEP 2022	Rs. 9.90 Lakhs and 02 Years	Ongoing
7.	Dr. Sankaranarayanan Dr. K. Srinivasan	School of Quantum Technologies	PI Co-PI	Development of an FPGA based control system for the efficient operation of atomic experiments	DIAT	DIAT/F/Adm/Project/OM/Corr/P-49 DTD. 19 SEP 2022	Rs. 9.84 Lakhs and 02 Years	Ongoing
8.	Dr. Bhubon Chandra	Electronics Engg.	PI	Design and Development of Reconfigurable FETs using	DIAT	DIAT/F/Adm/Project/OM/C	Rs. 9.90 Lakhs	Ongoing

	Prof. KP Ray		Mentor	2D Materials for HF Applications		orr/P-49 DTD. 24 Jun 2022	and 30 Months	
9.	Dr. Bharat Ramakrishna Dr. SVSSNKG Krishna Murthy	Applied Mathematics	PI Co-PI	Data Analytics based Maritime Traffic Analysis	DIAT	DIAT/F/Adm/Project/OM/Corr/P-49 DTD. 22 Jun 2022	Rs. 9.89 Lakhs and 02 Years	Ongoing
10.	Dr. Shyamal Mondal	Applied Physics	PI	Realization of Non-SESAM based Modelocking of Ultrafast Laser and its Amplifiers	DIAT	DIAT/F/Adm/Project/OM/Corr/P-49 DTD. 29 Apr 2022	Rs. 9.89 Lakhs and 02 Years	Ongoing
11.	Dr. Yogeshwar Singh Dadwhal Dr. SVSSNKG Krishna Murthy	Applied Mathematics	PI Co-PI	Super -Resolution in IR Thermal Images for Drone Surveillance	DIAT	DIAT/F/Adm/Project/OM/Corr/P-49 DTD. 04 May 2022	Rs. 9.87 Lakhs and 02 Years	Ongoing
12.	Dr. Pooja Agrawal	School of Robotics	PI	Underwater Vision Base Surveillance and Tracking using Machine Learning	IIT Guwahati	TIH/TD/0309 dt:28/09/2022	Rs.10.00 Lakhs 1 Year	Ongoing
13.	Dr AVR Murthy	Applied Physics	PI	Demonstration and implementation of Bi-directional (>10m) underwater Optional Communication Link with	IIT Guwahati	TIH/TD/0408 dt:28/09/2022	Rs.10.00 Lakhs 1 Year	Ongoing

				various Modulation Schemes on a testbed				
14.	Dr. Shanmugasundaram T	Metallurgical & Materials Engineering	PI	Design and Development of High Temperature High Entropy Alloy for Aero Engine Application	GTRE	GTRE/23CR0004/MTG/GN/CMS-II dt:14/12/2022	Rs.282.17 Lakhs 3 Years	Ongoing
15.	Dr. Shanmugasundaram T	Metallurgical & Materials Engineering	PI	Designing Coating, and Microstructural Characterizations of Complex Concentrated Alloys	CARS-NMRL	NMRL/MMG/0401/04/CARS/NMR255/2/2022-23 dt:12/04/2022	Rs.9.87896 Lakhs 1 Year	Ongoing
16.	Dr. Chetan J Bhongale	Applied Chemistry	PI	Exploratory Research on Fabrication of Bioprocess-inspired CaCO ₃ /OM Composites with unique properties: Biomimicking sea-shells	DIAT	DIAT/F/Adm/Project/OM/Correction/P-49. 1st Nov. 2022	Rs. 9.2786 Lakhs (2 years)	Ongoing
17.	Dr P M Nadge	Mechanical Engg	PI	Numerical flow analysis of 3.5-5.0 KW Auxilary Power Unit (APU) cooling Jacket	VRDE	VRDE/23CR0002/PM&G/VRDE-078/PG-I Dt:9/07/2022	Rs. 1.09 Lakhs 9 Months	Completed 31 May 2023
18.	Dr. Shaibal Banerjee	Applied Chemistry	PI	Protective Textile having decontamination materials for neutralization of Sulfur Mustard, Nerve Agent and their stimulants	LSRB	LSRB/01/15001/LSRB-398/BTB/2022 dt:09/09/2022	R. 34.21364 Lakhs 3 Years	Ongoing
19.	Dr. Fiyanshu Kaka	Metallurgical & Materials Engineering	PI	Numerical and experimental investigation of polymer composites for application in Electric Vehicle	DIAT	DIAT/F/Adm in/Project/OM dated 03.03.2022	Rs 7.84 Lakhs 2 Years Extension up to 02 Jun 2024	Ongoing

Projects Sanctioned during Year 2021

Sr. No	Name of Faculty	Name of Department	Role of Faculty (PI/Co-PI)	Title of Sponsored Project	Funding Agency	Sanctioned Project No with Date	Sanctioned Amount and Duration	Status (Completed with Date /Ongoing)
1.	Dr S Chandel Dr DG Thakur	Mech Engg	PI	CFD Analysis of Ejection Seat System of an Aircraft	ARDB	ARDB/01/103 2006/M/I dated 16 Sep 2021	Rs 12.00 Lakhs / 2 Yrs	Ongoing
2.	Dr. Kanaka Raju Pandiri	School of Quantum Technology	PI	Random Number Generator from Post Quantum Primitive	DIAT	DIAT/F/Admi n/Project/OM/ Corr/P/49 Dated 29 July 2021	Rs. 5.72 Lakhs	Ongoing
3.	Prof. Prashant Kulkarni & Dr. Ganpati Joshi	School of Energy & Environmental system	PI & Co-PI	Development of Technology for Production of Non-flammable Hydrogen Gas and its Application in Lighter than Air (LTA) Vehicle.	ER & IPR	21 Nov 2021	Rs. 739.03 Lakhs 03 Years (Nov 2021 - 2024)	Ongoing
4.	Prof. A. Kumaras wamy & Dr. Sunil Nimje	Mechanical Engg.	PI & Co-PI	Numerical Analysis on Effect of Fragment Shapes on Damage of Targets in Ballistic Applications	ARMREB	ARMREB/AD MB/2021/246 dated 07 Sept, 2021	Rs. 30.01361 Lakhs	Ongoing
5.	Dr. Sunita Dhavale	Computer Science and Engineering (CSE)	PI	Intelligent Video based human Activity Detection	LSRB	LSRB/01/1500 /M/LSRB-381/PEE&BS/ 2020 Based April 2021	Rs. 44.58051 Lakhs 25 Months	Completed 15/08/2023

6.	Prof. D.G. Thakur & Dr. Sunil Chandel	Mechanical Engg.	PI & Co-PI	Numerical & Experimental Investigation of Additively Manufactured aircraft wing components using carbon fiber reinforced polymer composite material	ARDB	ARDB/01/203 1989/M/I DTD. 08 July 2021	Rs 36.76 Lacs/3Yrs	Ongoing
7.	Dr. Viiay Hiwarkar	Metallurgical & Materials Engineering	PI/Co-PI	Development of process and establishment of parameters for producing parts by permanent joining (welding) of metal additively manufactured aluminum alloy and conventionally manufactured parts/components of aluminum alloy for current and futuristic application in armament engineering	ARMREB	ARMREB/M AA/2021/243 Sanctioned 10/9/2021	Rs. 41.83020 Lakhs 03 Years	Ongoing
8.	Dr. Shanmugasundaram T.	Metallurgical & Materials Engineering	PI	Wear studies of high entropy alloys	DIAT	DIAT/F/Adm/Project/OM/ Mate/Corr/P- 49 Year: 2021	Rs. 8.00 Lakhs 2021-2022	Completed, 31 st Aug 2022
9.	Dr. Arun Mishra	Computer Science and Engineering (CSE)	Co-PI	Random Number Generator from Post Quantum Primitive	DIAT	DIAT/F/Adm in/Project/OM/ Corr/P-49 Dated 29 th July 2021	Rs. 5.72 Lakhs 01 Year	Completed July 2022

Projects Sanctioned during Year 2020

Sr. No	Name of Faculty	Name of Department	Role of Faculty (PI/Co-PI)	Title of Sponsored Project	Funding Agency	Sanctioned Project No with Date	Sanctioned Amount and Duration	Status (Completed with Date /Ongoing)
1.	Dr. Sunita Dhavale	Computer Science and Engineering (CSE)	PI	CNN Based Covid-19 Chest X-Ray Image Analysis (C31A)	DIAT	DIAT/F/Admi n/Project/OM dated 18.05.2020	Rs.10.00 Lakhs 03 Months	Completed Aug 2020
2.	Abhilash MT	Electronics Engineering Department	Co-PI (In collaborat ion with IIT Jammu, IIT Hyderabad, MACE Kerala, IIT BHU	Algorithms for fast computation of Principal Components for self-noise cancellation in Underwater Acoustics	NRB, New Delhi	DIAT/F/Adm/ Project/OM/C ORR/P-49 dated 09 Nov 2020	Rs.49.96136 Lakhs 3 Years	Ongoing
3.	Dr Devnath Dhirhe	Applied Physics	PI	Electrically tunable 3-3.45um quantum cascade laser for LiDAR Applications	LASTEC, DRDO	DGECs/15258 /05/P/2019/00 4/CARS Dt: 08 th May 2020	Rs. 296.72 Lakhs & (2020-2024)	Ongoing
4.	Dr Devnath Dhirhe	Applied Physics	PI	Design and Development of THz Quantum Cascade Laser	SSPL-DRDO	1115/CARS-85/TS/SPL/20 Dt: 08/12/2020	Rs 469.31 Lakhs 3 Year	Ongoing
5.	Prof. S.K Panigrahi	Mechanical Engg.	PI	No-Linear Finite Element Analysis of Composite Valve	NMRL, Ambernath	NMRL/MMG/401/04/PSTD/ CARS/LP/173 /2019-20 Dated 04.01.2020	Rs. 10.00 Lakhs 1.5 Years	Completed 20 Oct. 2022

6.	Prof. D.G. Thakur	Mechanical Engg.	PI	Numerical and Experimental Investigations on Formability of Thin Metal Foils in Micro Forming for Aerospace Applications	ARDB	ARDB//01/20 31949/M/I DTD. 27 Feb 2020	Rs. 15.00 Lakhs 02 Years	Completed Feb 2022
7.	<u>Dr. A. A. Bazil Raj</u>	Electronics Engineering Department	PI	Long term training and report generation for the feasibility study on OTH Radar	NxxO, GoI	DIAT/EE/KP R/C01/XX/20 19 dt. 1/09/2020	Rs. 32.4 Lakhs & (2020-2023)	Ongoing
8.	<u>Dr. A. A. Bazil Raj</u>	Electronics Engineering Department	PI	Development of A Medium Range (5-10 km) Secured Free Space Optical (FSO) Voice Simplex Communication System for The Mission Critical Wireless Optical Link	NxxO, GoI	XXXIV/05/41/ 2019-1367 dt. 9/06/2020	Rs. 89.4 Lakhs & (2020-2023)	Ongoing

Projects Sanctioned during Year 2019

Sr. No	Name of Faculty	Name of Department	Role of Faculty (PI/Co-PI)	Title of Sponsored Project	Funding Agency	Sanctioned Project No with Date	Sanctioned Amount and Duration	Status (Completed with Date /Ongoing)
1.	Dr. Sumati Sidharth	Technology Management	PI	A study and identification of Critical Success Factors for projects in Pune based DRDO laboratories	DIAT(DU)	DIAT/F/Adm/Project/OM/Corr dated 04 Mar 2019	Rs. 7.7 Lakhs 1.5 Years	Ongoing
2.	Dr. T. UmasankarPatro	Metallurgical & Materials Engineering	PI	Development of glassy carbon foam with controlled pore size and improved mechanical and electrical properties using nanofillers for acoustic and EMI shielding materials and high temperature insulation	DIAT (DU)	DIAT/F/Adm/Project/OM/Corr Dated 14Feb 2019	Rs. 8.75 Lakhs and 02 Years	Completed (Feb 2021)
3.	Prof. D.G. Thakur	Mechanical Engg.	Co-PI	Surface integrity studies during Milling of Aluminum- Lithium alloys used in aerospace applications for improved functional Performance	ARDB	ARDB/01/203 1909/M/I Dtd. 16 May 2019	Rs. 15.00 Lakhs 03 Year	Completed May 2022

Projects Sanctioned during Year 2018

Sr. No	Name of Faculty	Name of Department	Role of Faculty (PI/Co-PI)	Title of Sponsored Project	Funding Agency	Sanctioned Project No with Date	Sanctioned Amount and Duration	Status (Completed with Date /Ongoing)
10	<u>Dr. A. A. Bazil Raj</u>	Electronics Engineering Department	PI	Photonics Radar Design	SERB, New Delhi	TARE/2018/001273 dt. 5/11/2018	Rs. 18.48 Lakhs, & (2018-2021)	Completed Dec 2022
11	<u>Dr. A. A. Bazil Raj</u>	Electronics Engineering Department	PI	Design of a FMCW Radar	DIAT	DIAT/EE/RP-PRPO/FMCW-1 dt. 19/02/2018	Rs. 10.00 Lakhs, & (2018-2020)	Completed Dec 2022
12	Dr. Ganapati N. Joshi	Aerospace Engineering	PI	Attenuation of Flowfield Unsteadiness due to Flare Induced Shock/Boundary Layer Interaction using Micro Vortex Generators	SERB	CRG/2018/003925 28 March 2018	Rs. 25.82679 Lakhs 3 years (28 Mar 2019 – 27 Mar 2022)	Completed 27 Sept 2022

List of MOUs

S. No	Details of MoU	Date of MoU	Validity
1.	Government of India Department of Defence Research and Development, Ministry of Defence	03.04.2019	Valid till its termination
2.	Academic Progression Agreement Between Cranfield University UK and DIAT (Award of dual/double degree agreement)	17.08.2020 23.02.2024 (renewed)	23.02.2029
3.	Cranfield University, Cranfield, Bedfordshire, MK43 OAL	15.05.2017 23.02.2024 (renewed)	23.02.2029
4.	National Defence Academy (NDA), Pune	08.09.2023	08.09.2028
5.	Indian Air Force, Centre for Air power studies	27.02.2019	Valid till its termination
6.	National Technical Research Organization (NTRO)	15.04.2019	Valid till its termination
7.	Institute of Technology Management (ITM), Mussoorie	12.02.2019	11.02.2024
8.	Indian Navy	05.09.2019	Valid till its termination
9.	IIT, Madras	19.12.2019	Valid till its termination
10	Letter of Intent (LoI) with Military Technical Academy (MTA), Vietnam	25.11.2019	-----
11	MoU with Dassault Aviation, France	27.11.2019	06.11.2024
12	RUDN University, Russia	06.12.2019	05.12.2024
13	National Institute of Advanced Studies (NIAS), Bengaluru	31.01.2020	30.01.2025
14	Society for Electronic Transactions and Security (SETS), Chennai	24.01.2020	23.01.2025
15	Akademika Lab Solutions, Pune	16.07.2020	15.07.2025
16	University of the West of England (UWE), Bristol	03.06.2020	02.06.2025

17	National Institute of Electronics and Information Technology (NIELIT), Calicut	28.05.2020	26.05.2025
18	Indian Naval Academy (INA), Ezhimala (Kerala)	20.11.2020	19.11.2025
19	ISAE SUPAERO, France	10.07.2020	09.07.2025
20	National Technical Research Organization (NTRO)	-----	-----
21	MIST, Dhaka, Bangladesh	11.04.2019	11.04.2024
22	Centre for Development of Advanced Computing (CDAC)	28.07.2021	28.07.2026
23	Amity Universities and Institutions, Noida, U.P	17.08.2021	17.08.2026
24	Pune Knowledge Cluster (PKC)	28.07.2021	28.07.2026
25	City University, London	01.11.2021	01.11.2026
26	M/s Guts Electromech Ltd., Hyderabad	30.12.2021	-----
27	Open University, UK	10.03.2022	10.03.2027
28	Walchandnagar Industries Ltd.	09.06.2022	-----
29	SMTU, Russia	10.01.2022	10.01.2027
30	National Institute of Naturopathy (NIN), Pune	05.09.2022	-----
31	Acoustics India Pvt. Ltd, Trichi, Tamilnadu	03.10.2022	03.10.2025
32	Tarxya Technologies Pvt. Ltd. Bengaluru	05 April 2023	---
33	VIT, Vellore	13 April, 2022	13 April, 2027
34	Zagreb University, Croatia	05.07.2023	05.07.2028
35	KIMS Foundation & Research Centre (KFRC), Secunderabad	04.01.2024	04.01.2029
36	Synctreads Computing Pvt. Ltd. Pune	08.02.2024	08.02.2029
37	Bharat Forge	10.02.2023	10.02.2028
38	Homi Bhaba National Institute, Mumbai	20.12.2023	20.12.2028
39	National Academy of Defence Production	07.06.2024	07.06.2029

	(NADP), Nagpur		
40	Letter of Understanding Armoured Corps Centre & School (ACC&S) Ahmednagar	05.03.2024	-----
41	CSIR- CSIO (Central Scientific Instruments Organisation), Sector-30C, Chandigarh-160030	26.06.2024	26.06.2029
42	L&T Precision Engineering and Systems	15.05.2024	15.05.2027