

Tele 24304021
FAX 24389509
registrar@diat.ac.in

Defence Institute of Advanced Technology(DIAT),
Deemed University (DU), Girinagar,
Pune-411 025

DIAT/F/10(3)/BOM/2013-Adm

05th April 2015

**MINUTES OF THE 5th MEETING OF THE BOARD OF MANAGEMENT (BoM) OF
DIAT(DU) HELD AT DIAT(DU) PUNE AT 1030 HRS ON 23RD MARCH 2015**

1. The following were present:-

(a) Dr S Pal	VC, DIAT (DU)	Chairman
(b) Dr GS Malik	CC(R&D) HR, DRDO Hqrs	Member
(c) Sh RG Viswanathan	Addl FA(R&D), DRDO Hqrs	Member
(d) Dr Hina Gokhale	DHRD DRDO	Special Invitee
(e) Prof KN Ganesh	Director IISER, Pune	Member
(f) Prof Girish Kumar	IIT Bombay	Member
(g) Prof K Rajanna	IISc	Member
(h) Dr Sangeeta Kale	Dean (Academics)/DIAT(DU) Pune	Member
(i) Dr PK Khanna	HoD AC, DIAT (DU) Pune	Member
(j) Dr SK Das	HoD AM, DIAT (DU), Pune	Member
(k) Dr SE Talole	HoD AE, DIAT(DU)	Special Invitee
(l) Dr A Kumaraswamy	CoE, DIAT(DU), Pune	Invitee
(m) Sh Ramesh Jahagirdar	FO/DIAT	Special Invitee
(n) Rear Admiral (Retd) VS Batra, VSM	Registrar, DIAT(DU) Pune	Secretary

2. Registrar, DIAT(DU) welcomed all to the 5th meeting of the BoM. Thereafter Registrar invited VC and CC(R&D) HR to make opening statement, being their first meeting.

3. VC stated that in his brief stint at the DIAT so far, it is evident that,

- DIAT has potential to grow as an Institute of eminence for PG Education and Research.
- DIAT has a name as the erstwhile IAT in the field

(c) DIAT needs to re-focus on Technology Departments and establish effective interface with DRDO and Private Industry.

(d) DIAT needs to re-look at contents and curriculum of the M Tech Programmes with a view to align them to the needs of the Stakeholders (action is being taken).

(e) DIAT needs to start new Courses/Programmes in line with contemporary technologies (action is being taken).

(f) DIAT needs to optimally utilize the available facilities by admitting more students under both sponsored and non sponsored categories.

(g) DIAT needs to re-structure Deptt of Biosciences as Deptt of Biotechnology in line with AICTE stipulations.

4. CC(R&D) HR stated that there is a need for institutionalized interface between DIAT and DRDO Labs. He emphasised the need for DIAT Faculty to visit DRDO Labs to have an improved perspective of DRDO requirements. He assured that DRDO Hq would extend all support to facilitate the same. In this connection CC(R&D) HR agreed to examine feasibility of implementation of Registrar's suggestion for holding one Cluster meeting at DIAT by all Cluster DGs (Formal letter since sent to DRDO Hq).

5. Registrar informed the BoM that Dr Ranjit Date, MHRD Rep has sought leave of absence. Thereafter, VC directed the Registrar to proceed with the agenda for the meeting.

6. Registrar listed the agenda for the meeting as tabulated below:-

	Point
(a)	Progress on minutes of the last meeting held on 07 th July 2014.
(b)	Ratification of Minutes of the meeting held on 07 th Jul 2014
(c)	Reporting Issues.
(d)	Agenda Points
(e)	Academic achievements of DIAT.
(f)	Any other Points
(g)	Concluding remarks by the VC.

7. Registrar apprised the BoM on the progress on the minutes of the 3rd meeting of the BoM as tabulated below:-

	Point	Progress
(a)	Annual Accounts for FY 2013-14.	Accounts alongwith Annual Report for 2013-14 has been tabled in the Parliament.
(b)	Appointment of statutory auditors.	M/s MK Bhatia have been appointed.
(c)	Registration under Service Tax Act.	Process has been completed.
(d)	Purchase of replacement vehicle.	Order has been placed at a cost of Rs 11,23,240/- against DGS&D RC.

(e)	M Tech programme in UWS in collaboration with IIT M	Deferred till 2016.
(f)	M Tech programme in Technology Management(TM).	The course was started in 2014. Total revised financial implication for 2-years programme in part collaboration with IISc amount to RS 82 Lakhs approximately for both IISC and non-IISC conducted capsules..
(g)	M Tech programme in Biosciences and Engineering	No admissions are being undertaken in 2015. Way ahead is being discussed as an agenda point.
(h)	POINTS 19 Programme	The programme was completed on 26 th Dec 2014 and detailed report rendered to DRDO Hq on 29 th Dec 2014.
(j)	Ownership of Papers and patents	Issue is being discussed as an agenda point.

8. Thereafter, Registrar sought ratification of the minutes of 4th BoM meeting held on 07th July 2014. **The BoM ratified the minutes.**

Reporting Issues

9. Registrar apprised the BoM following:-

- (a) Recruitment of 05 Assistants (04 Open and 01 ESM).
- (b) Recruitment of 03 Library Assistants.
- (c) Recruitment of 01 Lab Supdt and 10 Lab Assistants is in progress.
- (d) Recruitment of 01 Asstt Registrar on deputation has been initiated.
- (e) Recruitment of 01 Lab officer has been initiated for DIAT Data centre.
- (f) Recruitment of 01 Supdt and 02 Assistants (ESM) has been initiated.
- (g) Revised Society and Statute documents have been approved by the Chancellor/Raksha Mantri (RM). Application has been filed with Registrar of Societies for change of name from IAT to DIAT. On receipt of the approval, the document will be printed and distributed to all concerned.
- (h) Waiver from the reservation policy has been turned down by DRDO Hqs and drive for recruitment of Faculty against Reserved vacancies is being initiated. After brief discussions on the issue it emerged that Government prescribed norms have to be followed and deviation if any be sought after due procedures have been followed.
- (j) NAAC Team is visiting DIAT on 12th-14th May 2015. Dates for NBA Team's visit are awaited.

(k) Last GB Meeting was held in Apr 2013 and that of GC in Nov 2013. Further, last Convocation was held on 31st May 2013. After brief discussion, CC(R&D) HR directed that cases may be initiated to seek formal directions of the RM.

(l) Minutes of the meeting held in Nov 2014 and Chaired by the then SA to RM have been received about bifurcation of MILIT and DIAT w.e.f 01st Apr 2015. Thereafter MILIT will cease to be DRDO Lab and would function as an AFTI under IDS Hq. Accordingly there will be a need to activate pending cases of DIAT for Technical Building, Girl's Hostel, Studio Apartments. Further, certain common facilities viz MI Room, Sports, Fire Fighting, CSD Canteen, Control of KV etc, presently shared with MILIT would also need to be created for DIAT.

(k) As part of the Campus selection RAC/DRDO have selected two M Tech students of DIAT Aero Deptt have been selected as Sc B. Members advised that Deptt to respective DRDO Labs interface will improve this figure. After brief discussion it was decided that **DIAT will put up department-wise status of post programme jobs obtained by non-sponsored students.**

(l) DIAT Alumni Association has been registered on 05th Dec 2014. All the members advised that the association needs to be used for improved placements.

Agenda Points

10. Various agenda points discussed and decisions taken are tabulated below:-

	Points	Discussion	Decisions Taken
(a)	<p><u>Engagement/Ex tension of Engagement of Contract Faculty.</u></p> <p>Detailed brief was circulated w.r.t 05 Contract Faculty (04 in Deptt of Bio upto 31st May 15 and 01 in Deptt of Applied Physics upto 16th April 15).</p>	<p><u>Deptt of Applied Physics(AP).</u> It emerged that requirement of Deptt of AP has already been met by recruitment of regular faculty.</p> <p><u>Deptt of Biosciences.</u> Whilst Members accepted the necessity to have a vibrant Deptt of Biotechnology but its scope has to be worked out keeping in view highly qualified DRDO Sc in various LS Labs. CC(R&D) HR and DHRD stated that detailed discussions were held with DG LS/DRDO on the issue and that LS Cluster is encouraging SC to opt for Visiting/Adjunct Faculty status at DIAT. Director IISER emphasized the need for core faculty in any department.</p>	<p>It was decided that no further extension be given to any Contract Faculty.</p> <p>The M.Tech programme will not be offered during 2015. The syllabus and the contents will be revised in consultation with DG LS.</p> <p>Interests of the PhD and M Tech Students of the Deptt of Bio will be safeguarded by faculty of other departments at DIAT as also DRDO LS Labs.</p> <p>Details of the revised scope for the Deptt of</p>

			<p>Biotechnology will be worked out by DRDO Hq by end Sep 2015.</p> <p>VC will have interactions (or visit) with various LS laboratories to get a feel of their requirements. DHRD will facilitate the same (Visits being planned in 2nd half of May 2015).</p>
(b)	Pay and Service Conditions for DIAT Staff	<p>BoM was apprised that whilst Academic personnel are governed by norms issued by MHRD/UGC, non-academic personnel are governed by rules and regulations promulgated by MHRD/DOP&T from time to time.</p> <p>Accordingly, enabling approval was sought for VC to apply norms as promulgated from time to time.</p>	<p>Approval was accorded for VC to approve application of norms from time to time as part of delegated powers to VC subject to BoM being apprised in the following meeting.</p>
(c)	Acceptance of Graduation Certificate for Ex-servicemen(ESM) issued by respective services as per DOP&T Norms	<p>The issue was discussed and Registrar apprised the BoM about the implications</p>	<p>BoM approved application of DOP&T norms for recruitment of ESM against vacancies reserved for ESMs.</p>
(d)	Medical scheme for DIAT personnel.	<p>BoM was apprised that DIAT had introduced a medical scheme at par with the one at ADA after due approval of the Governing Council (4th meeting). The scheme stipulated monthly contribution less than CGHS rates. The Test audit objected to this anomaly. Accordingly the scheme has been revised as under:-</p>	

		Grade pay in Rs	Pre-revision contribution in Rs	Post-revision contribution in Rs	BoM approved the proposal.
		Upto 1650	1% of basic pay(BP+GP /AGP) to a min of Rs 100/- and max of Rs 250/-	50	
		1800,1900, 2000,2400 and 2800		125	
		4200		225	
		4600,4800, 5400,6600 incl AGP of 6000-7000		325	
		7600(AGP 8000) and above		500	
(e)	Awards at DIAT	Approval of BoM was solicited for the following:- (i) Increase of annual limit from Rs 70,000/- to Rs 1,50,000/-. (ii) Flexibility to VC to decided categories from year to year			After discussion, the increase to Rs 1,50,000/year was approved with the proviso that specific categories will be promulgated by the VC
(f)	Payment to M Tech and PhD students for expenditure from their annual contingency grant	It was brought out that there were no specific powers delegated to the VC for authorising payments to M Tech students (upto Rs 5000/year) and PhD Students (upto Rs 15,000/year)/as revised from time to time			BoM approved the delegation of powers to VC.
(g)	Introduction of Annual Medical Examination Scheme to all Group A Officers on the lines of scheme promulgated for DRDO.	Approval was sought for introduction of the scheme for all Group A officers above age of 40 years of DIAT as also those above 50 years in other categories.			BoM approved the proposal for all above 40 years age Group A Officers of DIAT with the directions that financial implications be worked out for those above 50 years in other categories.
(h)	New M Tech programmes	Chairman PGC/HoD AE proposed introduction of New M Tech programmes in Navigation Systems, Wireless Sensor Networks			BoM approved further processing of the proposal in consultation with identified

		and Robotics & UAVs. Chairman PGC apprised the members of the contours of the proposed programmes. During discussions it emerged that it may be desirable to have generic nomenclature for programmes with specialization in the relevant fields. Views of stakeholders may also be ascertained.	stakeholders.
(j)	Enhancement of Ph D fellowship	Approval was sought for the following:- (i) Scholarship to PhD students as per MHRD communications from time to time. (ii) Fellowship to Project Staff(JRF, SRF,RA,PA etc)as per norms of funding agencies from time to time.	BoM approved the proposal.
(k)	Budget for 2014-15	BoM members were apprised about the discussion held at the Finance Committee meeting earlier in the day	BoM approved that proposal for Rs 24.15 crores for 2015-16. Further, a three years roll on Technology Equipment Induction Plan (with year-wise cash flow) for Capital Expenditure may also be processed for concurrent approval.
(l)	M Tech in UWS	VC apprised all about the discussions held at NIRDESH under the Chairmanship of Secretary Defence Production about stimulating Shipbuilding industry in India as part of the Make in India campaign of the Gol. VC further stated that feasibility was being explored to restructure the planned UWS Programme accordingly.	After discussions it was decided that the status quo may be maintained for UWS Programme. Based on the final contours received from Deptt of DP, fresh proposal may be processed.
(m)	M Tech in TM	Addl FA and JS observed that there is wide variation in the original (Rs 28 Lakhs) and revised projections	After discussions BoM decided to continue the course in 2015 and 2016

		(Rs 82 Lakhs) and stated that there is a need to make proper and accurate estimate before starting any programme in future.	with proviso that annual feedback may be given to the BoM. Programme to be reviewed after 2016.
(n)	M Tech in Bio	(a) above refers	(a) above refers
(o)	IPR ownership	As per present norms ownership of IPR is vested in DRDO/DIAT. Based on requirement projected by Bharat Forge for sponsoring project, it was proposed that approval may be accorded for joint ownership of IPR in respect of funded/jointly funded projects.	After discussions BoM approved the proposal.
(p)	Need for increased strength of students in each programme.	Registrar apprised the Members that strength of Sponsored category students has been between 46-60 during the last 04 years and that there was need to make up the shortfall (from AICTE approved strength of 25/Programme) by admitting more GATE qualified students from open category. This would also increase visibility of DIAT amongst the Defence related private industry in the context of 'Make in India' programme launched by the Gol.'	(i) After discussions, BoM approved the measure for one year (to be reviewed in 2016) with the proviso <i>that fee structure would be at par with IIT B, Hostel accommodation will not be assured and DRDO Rep will be called for all interviews.</i> (ii) Further FO was advised to work out per student variable cost(s) for each programme

11. **Academic Achievement of DIAT.** Dean Academics made a detailed presentation (Appendix A) on the academic achievement of DIAT during last one year. DHRD enquired regarding the citation index of the publication pointing out that the request had been made in previous BoM meetings, but never presented. Professor Ganesh also endorsed DHRD views. After due deliberation on the different levels of indices for different subjects, it was decided that in the next meeting citation index or any other relevant measure that values the paper on international scale should be put up.

12. **Incubation Centre and Entrepreneurship related Issues.** Professor Girish Kumar narrated the experience of the measures at IIT B and stated that the issue brought up by him in earlier meeting also needs to be progressed. VC agreed to proceed further (Committee since appointed to examine the issues).

13. VC thanked all for constructive and meaningful participation in the meeting. There being no further point, the meeting was adjourned.

14. Next meeting of the BoM will be held in **Jun/Jul 2015 at Pune.**



(VS Batra)

Rear Admiral(Retd)

Registrar & PD POINTS programme

Enclosures: Appendix A

Distribution:

All Members

Copy to:-

Chancellor, DIAT *through CC(R&D) HR/DRDO Hqrs,*

Secretary Defence (R&D) and SA to RM

MHRD (**Secretary Higher Education**), Secretary UGC

A/ Jendix A
(Penc 1) refer

ACADEMIC ACHIEVEMENTS

Academic Achievements (From June 2014 To Till Date)

- Teaching courses and Training Manpower in areas relevant to DRDO / Defence Services, PSUs, and now possible Private Industries related to Defence Production under "MAKE IN INDIA".

FUNCTIONS OF DIAT

- Induction Training of DRDO Scientists – POINTS Programme
- M Tech for Services Officers, DRDO Scientists, DPSUs Officers and Students from Open Category Subject to Vacancies
- Phd for DRDO Scientists , Service Officers and Students from Open Category
- Customized Courses for DRDO and DPSUs

STUDENTS STRENGTH

- M. Tech 1st Year - 112
- M. Tech 2nd Year - 101
- PhD - 139

43	18	7	3	66	2
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FACULTY STRENGTH

DIAT Faculty - 38 + 05
DRDO Scientists - 02

MILIT-DIAT INTERFACE FOR TEACHING

MILIT - 1070 Hrs For DIAT
DIAT - 943 Hrs For MILIT

. Aerospace Engineering - 10	. Applied Physics - 01
. Electronics Engineering - 01	. Mechanical Engineering - 02
. Computer Science & Engineering - 01	. Material Science & Engineering - 04
. Applied Chemistry - 02	

M.Tech. Programmes

- Aerospace Engineering (Guided Missiles)
- Aerospace Engineering (Air Armament)
- Mechanical Engg (Armament / Combat Vehicles)
- Mechanical Engineering (Marine Engg)
- Electronic Engineering (Radar & Communication)
- Electronics Engineering (Defence Electronic Systems)
- Computer Science & Engineering (Cyber Security)
- Applied Physics (Lasers & Electro-Optics)
- Applied Physics M.Tech. in Sensor Technology
- Applied Mathematics (Modeling & Simulation)
- Materials Engineering (Materials Science & Technology)
- Applied Chemistry (Chemical Science & Technology)
- M.Tech in Technology Management (jointly with IISc, Bangalore)
- M.Tech. in Biotechnology

Students Statistics

Ph.D	- 12
M.Tech	- 101
Master of Science by Research	- 05

Publications (Since Last BOM)

Sl. No.	Departments	Nos.
1	Aerospace Engineering	13
2	Applied Chemistry	15
3	Applied Mathematics	06
4	Applied Physics	22
5	Bioscience and Technology	02
6	Computer Engineering	12
7	Electronics Engineering	06
8	Materials Engineering	24
9	Mechanical Engineering	28
10	Technology Management	01
Total		129

EVENTS

Dept of Aerospace Engineering


- Customized Course on Missile Technology for BrahMos Aerospace Ltd, 11 Aug-19 Sep 2014.
- Customized Course on Missile Technology for Bharat Dynamics Ltd, 07 Apr 2014-16 May 2014.

Dept. of Applied Chemistry

- Customized Course on Precision Guided Munitions (Phase I completed in May 2014, Phase II planned in Dec. 2014).
- Indian Ordnance Factory Service Officers Course (IOFS) planned on Jan. 2015.
- CEP course on Energetic Chemicals and Binders.


Dept. of Applied Mathematics

- MATLAB & SIMULINK Training, 5-9 May 2014.
- STTP on ACM (Short Term Training Programme on Advanced Computational Mechanics) July 14-18, 2014.




Dept. of Applied Physics

- Workshop-cum-meeting on "Road map for DIAT for indigenous development of ELFE sensing probe/element": 25 Apr 2014
- Workshop-cum-meeting on "Materials Studio & interaction meeting on Graphene based devices": 01 Oct 14
- Upcoming International Conference on Sensor Technology - Jan 2016




Dept. of Bioscience & Technology

- Constitution of institutional bio-safety committee under the norms of DBT, Govt. Of India
- Developed Tie-up with Dept. Of Biosciences, DIAT and PASSCO environment Pvt. Ltd. for disposal of biohazard as per the norms of MPCB, Govt of India
- Developed Tie-up with Dept of Biosciences & Technology, DIAT and Krishna Institute of Medical Sciences, Karad




Dept. of Computer Science Engineering

- DIAT and IIT Kharagpur organized an International Conference Security, Privacy and Applied Cryptography Engineering (SPACE 2014), October 18-22, 2014 in DIAT Campus.
- The SPACE 2014 featured invited talks by experts, research paper presentations, tutorials, and workshops.




Dept. of Electronics Engineering

- Technology Demonstration of Very light, high resolution of
- Technology Demonstration of , a Bandwidth Efficient modulation techniques for telemetry applications.
- Customized Orientation Program for Management Trainee of HAL (Avionics Group)



Dept. of Materials Engineering

- Seminar on Electron Microscopy and Annual General meeting of Electron Microscopy Society
(March 2014)



Dept. of Mechanical Engineering

- Customized Orientation Program for Management Trainee of HAL (Mechanical Group) - 23rd June to 18th July 2014.
- New Facilities Built:
- Mechanical System Design & Analysis Centre
- Development of Experimental Set up towards Gun Barrel Cleaning with Ultrasonic
- Development of Electroless Ni Coating Set up for Marine Application

PATENTS

Total Number of Patents Filed = 25

In pipeline = 05

PROJECTS

DRDO	12
1 1 4 4 2	
≠ NON DRDO	17
8 3 1 3 2	
≠ DIAT (in-house)	10

PROJECTS [DRDO FUNDED]

Dr. Sangeeta Kale + 7	DRDO-DIAT Programme on NANO Materials	DRDO	Rs. 43.00 Crores
Dr. P K Khanna	Synthesis and Characterization of Nano-oxide Particles for Transparent Polymer Composite.	NMRL-DRDO	Rs. 9.96 Lakhs
Dr. C Bhattacharya	2-D and 3-D Image Reconstruction from Back Projections of Underwater Objects by Ocean Acoustic Tomography (OAT)	NPOL	Rs. 9.10 Lakhs
Dr. C Bhattacharya	Digital telemetry scheme for LCA (Tejas)	ADA	Rs. 81 Lakhs
Dr. Anup Kale	Optical Biosensor and diagnostic tools for detection of pathogens in biological warfare with Bifunctional nanomaterials.	DRDO-BU (ER & IPR, DRDO)	Rs. 58.97 Lakhs
Dr. K K Naik	Digital Communication Schemes* for Tejas (LAC)	ADA	Rs. 81.65 Lakhs

PROJECTS [DRDO FUNDED]

Dr. Anup Kale	To Develop Optical Probe Based Biosensor to Detect Biological Agents Using Difunctional	DRDO	59.00 (Sanction in pipeline)
Dr. Sandeep Srivastava	Computational studies on stability of biological models	DRDO	22.00
Dr. K K Naik	Study & Analysis of Ultra Wideband EW Signal Processing Using Sub-Nyquist Sampling.	DARE	9.60
Dr. SK Panigrahi	Optimization of skin and rib (Spar) stiffness for an optimum performance of concurred Spar Wing skin Joints (SWJ) in pull off mode.	ARDB	14.6
Dr. Anup Kale	Multifunctional Nanocarriers Crossing Blood Brain Barrier (BBB) for Targeted Imaging and Neuropharmaceutical Delivery	LSRB, DRDO (in pipeline)	27.54 Pipeline

NON DRDO PROJECTS

Dr. Sangeeta Kale	Fabrication of Metamaterial gold/silver structures from GHz to Phz domain for biosensing applications	INUP Project - IIT-Bombay	5.0
Dr. Revikant Choudhary	Modification in chemical Bath Deposition Setup, Growth & Characterization of Semiconducting Thin Film For Photovoltaic Applications.	DST	23.5
Dr. P K Khanna	Studies on Signal Source Molecular Precursors Derived from 1,2,3 Selenadiazoles and Transition Metals for Synthesis of Magic Sized Nano Clusters and Quantum Dots.	DST	20.1
Dr. Shaibal Banerjee	Metal Catalyzed Reactions: Their Utility in High Energy Density Materials	DST	24.0
Dr. Chetan J Bhongale	Developing Strategies for robust functional hybrid nanomaterials for solar cells: Synthesis, film formation and device fabrication	SERB	20.7
Dr. Piyush More	Semiconductor Quantum Dots/ Conducting Polymer Hetro-Junction Based Photovoltaic Devices for High Efficiency	DST	85.0
Dr. C. Bhattacharya	FMCWSAR Image generation on FPGA platform	DIAT(DU), & SAMEER, Mumbai	46.0

PROJECTS [DRDO FUNDED]

Dr. SK Panigrahi	Launcher Pod with Optimized Weight and configuration using Non-Linear Finite Element Analysis	ARMREB	2.76
Dr. A Kumaraswamy	A Research project on 'Numerical modelling of Tribological characteristics of high pressure reciprocating hydraulic seals subjected to shock loading' sanctioned by	R&DE	9.99
Dr. Sunil Chandel	Study of Ice Accretion on an Airfoil Using CFD	ARDB, DRDO	28.27

NON DRDO PROJECTS

PI	TITLE	FUNDING AGENCY	AMOUNT
Dr. K. Krishna Naik	Software Defined Radio based Multiband Transceiver (Proposal under process)	SERB	Rs. 49 Lakhs
Dr. Kavita Pal	Chitosan based hydrogen nanoparticles for applications in wound healing.	DBT- BIOCARE, New Delhi	Rs. 21 Lakhs
Dr. Sandeep Srivastava	Structural Studies on Membrane Associated Molecules Machine Modulation Multidrug Resistance in Gram +ve Bacteria.	DBT	Rs. 55 Lakhs
Dr. H. S. Panda	Semiconductor quantum dots in LDH for diagnosis of cancer	DST	Rs. 7.5 Lakhs
Dr. T. U. Patro	Investigation of mechanical and electrical properties of reticulated vitreous carbon (RVC) foams from polyurethane precursors impregnated by nanofillers for fuel cell applications	DST	Rs. 20 Lakhs
Dr. HS Panda	Spatial distribution of uranium and associated water quality parameters in three districts of Maharashtra (Pune, Ahmednagar and Satara)	BRNS	Rs. 22.5 Lakhs

NON DRDO PROJECTS

PI	TITLE	FUNDING AGENCY	AMOUNT
Dr. Kavita Pal	Chitosan based hydrogen nano particles for application in wound healing	DBT, Govt of India	24.00
Dr. Sandeep Srivastava	Structural studies on membrane associated machines modulating multiple drug resistance in gram positive bacteria	DBT	68.00
Dr. Sachin Kadam	A step towards use of polysulfone based composite hollow fiber membrane as immunoisolation device for bio-artificial pancreas	KRBSU Grant-in-aid	10.50

TARGETTED TRAINING PROGRAMS

PROGRAMMES

Dept. of Aerospace Engineering

- Missile Technology
- Nonlinear Control
- Advances in Flight Control
- Turbulent Flows
- Hypersonic Aerodynamics
- Aero-elasticity in Flight Structures
- Flight dynamics

Dept. of Materials Engineering

- Dielectric impedance analyser (Jan 2014)
- Advanced seminar on electron microscopy (Feb 2014)
- Plastic processing for aerospace and defence applications
- Energy harvesting materials for sensors and actuators
- Advanced forging and welding of metallic systems

Dept. of Electronics Engineering

- Secure Navigation Systems
- MEMS and Smart Antenna
- Advanced Topics of Digital Signal Processing

PROGRAMMES

Dept. of Computer Engineering

- Wireless Security
- Trusted Computing
- Digital Forensics
- Security Audit
- Advanced Networking
- Malware Analysis

Dept. of Applied Physics

- Adaptive Optics
- High Power Laser
- Sensor Technologies
- Thin Film Technologies
- Advanced Characterisation methods

Dept. of Applied Chemistry

- Precision guided munitions
- Course on energetic chemicals and binders

Dept. of Bioscience and Technology

- nano-biotechnology in Defence
- Applications of Biomaterials in defence and allied areas
- Bioinformatics and structural biology training

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SCOPUS	Abstract
ProQuest Technology Research Collection	3000+
ABI/Inform	5440+
F1000 Prime	Abstract
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Books	54355
e-Books	337