

SANCTION OF FINANCIAL YEAR 2017-18

SL No	TITLE	PI NAME	PHONE	EMAIL	DEPT	INSTT	COST	PDC	DOMAIN LAB
1	Studies on Multi-GNSS signal environment from India towards integrated and robust navigation solutions and application development.	Anindya Bose	0342 2040062, 9434004478	abose@phys.buru niv.ac.in	Physics	University of Burdwan	64.60	3	RCI
2	Design and development of fault tolerant technique for reconfigurable computing applications.	Jamuna S	0804216173 1, 9448812915	js.jamuna@gmail.c om	Electronics and Communicatio n Engineering	Dayananda Sagar College of Engineering (DSCE)	17.55	2	ANURAG
3	Exome sequencing based detection of novel and causal mutation(s) associated with juvenile onset open angle glaucoma (JOAG).	Viney Gupta	11- 26864851, 9810009713	gupta_v20032000 @yahoo.com	Dr. Rajendra Prasad Center for ophthalmic	All India Institute of Medical Sciences (AIIMS)	68.03	3	INMAS
4	Object identification through syntactic as well as semantic interpretation from given scenarios.	Banani Saha	0332350185 7, 9433130715	bsaha_29@yaho o.com	Computer Science and Engineering	Calcutta University	28.67	3	DTRL
5	Development of PZN-PT single crystal technology for naval transducer applications (RIC-III).	N. V. Giridharan	0431- 2503613, 9443689391	giri@nitt.edu	Physics	National Institute of Technology (NIT)	99.38	3	NPOL
6	Physical modeling of Gallium Nitride High Electron Mobility Transistor (GaN-HEMT) with field plate structure for High Power. High frequency and Highly Efficient Power Amplifiers.	R. S. Gupta	9810458959	rsgupta1943@gma il.com	Electronics and Communicatio n Engg.	Maharaja Agrasen Institute of Technology	32.60	3	SSPL
7	Development of chemosensor based portable device for on-site detection of buried landmines and explosives for military applications.	Atul Chaskar	7507375261	achaskar25@gmail .com	National Centre for Nanosciences & Nanotechnolog y	University of Mumbai	46.13	2 Y 6 M	HEMRL

8	Development of Graphene based Silicone Rubber Composites for Tribological Application.	Soney C. George	0482825189 5, 0944787031 9	sonycgeorge@amaljyothi.ac.in & sonygeorge@gmail.com	Centre for Nano Science and Technology	Amal Jyothi College of Engineering	35.05	3	DMSRDE
9	Investigation on Optical Pulse & Beam Propagation in Semiconductor Quantum Well and Quantum dot Nanostructures with Emphasis to the Development of Photonic Devices.	S. Konar	0651-2275522, 9431326757	swakonar@yahoo.com & skonar@bitmesra.ac.in	Applied Physics	Birla Institute of technology (BITS)	24.61	3	SSPL
10	Design and development of sensors for the detection of explosive agents. (RIC-III)	Somnath Chanda Roy	044-2257-4886	somnath@iitm.ac.in & drsomnath@gmail.com	Physics	Indian Institute of Technology (IIT Madras)	82.84	3	CFEES
11	Development of Low Density Steels.	Ujjwal	0133228557 4, 0941175483 1	ujwalft@iitr.ac.in & uprakash2@rediffmail.com	Metallurgical and Materials Engineering	Indian Institute of Technology (IIT Roorkee)	43.77	3	DMRL
12	Study of pain attributes to design a pain measurement device for the cancer and injured patients.	Sushma Bhatnagar	9868398300, 011-29575209	sushmabhatnagar1@gmail.com	Onco-Anaesthesia and Palliative Medicine	All India Institute of Medical Sciences (AIIMS)	47.77	2	DIPAS
13	Biofilm and quorum sensing inhibitory phytochemicals for the control of food - borne pathogens in fruits and vegetables.	Ravishankar Rai V	821-2419735, 9845950155	ravivittal@gmail.com	Studies in Microbiology	University of Mysore	18.20	3	DFRL
14	Development of ultrasonically cast aluminium and aluminium alloy based high strength to weight ratio bulk nanocomposites for elevated temperature applications.	Sudipto Ghosh	3222-283294, 8967547928	sudipto@metal.iitkgp.ernet.in	Metallurgical and Materials Engineering	Indian Institute of Technology (IIT Kharagpur)	28.32	3	DMRL

15	Development of hybrid nanographite based radar absorbent paints for defence applications.	Amitava Bhattacharyya	0422434400 0, 7305141739	amitbhal1912@gmail.com	Nanotech Research, Innovation and Incubation Centre	PSG Institute of Advanced Studies	56.22	3	DLJ
16	Study of HEMT and its performance in amplifier circuit.	Aminul Islam	9471559180	aminulislam@bitmesra.ac.in	ECE	Birla Institute of technology (BITS)	23.74	3	SSPL
17	Luminescent solvent-free room temperature Organic Liquids based dual mode SENSors for selective detection of explosives. (ORLISENS)	Santhosh Babu Sukumaran	0202590233 0, 9673029217	sb.sukumaran@ncl.res.in	Organic Chemistry Division	National Chemical Laboratory	47.00	3	HEMRL
18	Vibrations of functionally graded nano structural members.	S. Chakraverty	0661246271 3, 9438135400	sne_chak@yahoo.com & chakravertys@nitrrkl.ac.in	Mathematics	National Institute of Technology (NIT)	18.96	3	DMRL
19	Simulation based preliminary study of lower extremity (LE) injuries caused by blast.	Devendra Kumar Dubey	011-2659-1161, 9560392701	dkdubey@mech.iitd.ac.in	Mechanical Engineering	Indian Institute of Technology (IIT Delhi)	78.74	3	DMRL
20	Passive method of base drag reduction for range enhancement of Gun Launched Shell Configuration. (RIC-III)	C. Senthil Kumar	9884710304	cakumar@mitindia.edu	Aerospace Engineering	Anna University	53.36	2	PXE
21	Design and Development of hydrogen Storage device with Mg based alloy nanoparticles decorated frustule-nitrogen doped graphene composite. (RIC-III)	Sundara Ramaprabhu	4422574862, 9444602362	--	Physics	Indian Institute of Technology (IIT Madras)	66.01	2	CFEES
22	Cyanobacteria as bioreactor for the synthesis of nanoparticles.	Tasneem Fatima	011-26981717 extn 3414, 9891408366	fatma_cbl@yahoo.com	Biosciences	Jamia Milia Islamia	89.44	3	INMAS

23	Analyzing and measuring the information collateral damage of an entity on the Internet.	Ponnurangam Kumaraguru	26907468, 9650122772	pk@iiitd.ac.in	Computer Science	Indraprastha Institute of Information Technology Delhi (IIITD)	34.01	2	SAG
24	Structure-microstructure -property correlation study in chemically modified lead free BZT-BCT solid solutions.	Sanjeev Kumar	0172-2753260, 09466326131	sanjeev@pec.ac.in & sanjeev04101977@gmail.com	Applied Science	PEC University of Technology	48.36	3	SSPL
25	Fabrication of corrosion and wear resistant ceramic composite coating on A1 alloys by Plasma Electrolytic Oxidation for defence application.	N. Ramesh Babu	0431-2503464, 09944932221	rameshrohith@gmail.com & nrb@nitt.edu	Metallurgical and Materials Engineering	National Institute of Technology (NIT)	35.26	3	DMRL
26	Designing fluorescence-based molecular sensors for military and commercial explosives.	Amitava Das	02025902385, 8275225356	a.das@ncl.res.in & das_amitava2@rediffmail.com	Organic Chemistry Division	National Chemical Laboratory	49.04	3	HEMRL
27	Design Against Radiation Effect (DARE) for ASIC standard cell library for VLSI Circuits.	N. M. Devashrayee	02717-241911-15, 9825306776	nmd@nirmauni.ac.in	ECE	NIRMA University	37.72	2	ANURAG
28	Experimental investigation on surface plasmon resonance based fiber optic refractive index sensors.	Navneet Kumar Sharma	0120-2594363, 08447805272	navneetk.sharma@jiit.ac.in	Physics and Materials Science & Technology	Jaypee Institute of Information Technology University (JIITU)	27.71	3	LASTEC
29	Design and analysis of multi octave band EW phased array using a printed radiator covering 6-18 GHz.	K. Sri Rama Krishna	9642086380	kalvasrk@gmail.com & hodece@vrsiddhartha.ac.in	ECE	V R Siddhartha Engineering College	65.05	3	DLRL
30	Design and Development of MEMS based piezoelectric energy harvester.	Ritu Sharma	0141-2713292, 9549645228	rsharma.ece@mniit.ac.in	ECE	Malaviya National Institute of Technology (MNIT)	22.09	3	SSPL

31	Development and characterization of swift response actuators using carbon allotrope's based ionic polymer composites.	Bhaskar Bhattacharya	8800998810	b.bhattacharya@sharda.ac.in	School of Basic Sciences and Research	Sharda University	25.07	3	DMSRDE
32	Implementation of secured centralized controller through SDN over heterogeneous networks.	M. Pushpalatha	44-27452270, 9940023821	pushpalatha.m@ktr.srmuniv.ac.in	Computer Science and Engineering	SRM University	26.32	2	CAIR
33	Feasibility study of a Practical Realization of Protocol for Semi-Counterfactual Quantum Key Distribution (QKD).	R. Srikanth	080-23611836, 9844593440	srik@poornaprajna.org	Theoretical Sciences	Poornaprajna Institute of Scientific Research	18.76	2	SAG
34	High Strain rate characterization of selective laser sintered materials for ballistic loading applications.	U. Chandrasekhar	4426840605, 09840078846	provc@veltechuniv.edu.in & veltech@vsnl.com	Aeronautical Engineering	Vel Tech Rangarajan Dr Sangunthala R&D Institute of Science and Technology/ Vel Tech University	23.58	2	DMRL
35	Development of high strength PEK and PEEK composites using multifunctional MWCNTs for wide range EMI/RFI shielding applications.	Pradeep Upadhyaya	079-40103901, 9662517001	pucipet@gmail.com & cipetahmd@gmail.com	Polymer	Central Institute of Plastic Engineering and Technology (CIPET)	38.92	3	DMSRDE
36	An adaptive classifier for unbalanced evolving streams: an application to fraudulent data streams.	T. Maruthi Padmaja	9440568235	padmaja.tu2002@gmail.com	Computer Science & Engg.	Vignan's Foundation for Science, Technology and Research (VFSTR) University/ Vignan's University	9.10	2	CAIR
37	Large signal field analysis of an O-Type travelling wave amplifier using a Tape-Helix model for the slow-wave circuit.	G. Naveen Babu	7358020202	naveen.babu@snu.edu.in	Electrical Engineering	Shiv Nadar University	12.14	2	MTRDC

38	Synthesis and characterization of thin films of electro-caloric materials for solid state cooling applications.	Parveen Kumar	08650002221	parveenpaliwal@gmail.com	Physics	Dehradun Institute of Technology (DIT)/ DIT University	21.32	3	SSPL
39	Synthesis of magnetic nanopowders by plasma arc discharge.	G. Shanmuga Velayutham	9551282965	velu976@yahoo.com	Physics	Bharathiar University	13.39	3	DMRL
40	Development of user friendly computer code for the simulation of shock structure interaction and validation (including LRC). (RIC)	O. Chellapandi	9442626481	chellapandi.p@vit.ac.in & perumalchellapandi@gmail.com	School of Mechanical and Building Sciences (SMBS)	VIT University	57.05	2	CFEES
41	IoT based knowledge mining for smart characterization of critical components in aerospace/ military appliances.	P. Radha	04562-235453, 944356775	pradha@mepcoeng.ac.in	Computer Applications	Mepco schlenk engineering college	16.63	3	SAG
42	Synthesis of novel multifunctional nano composites and study the influence of size, shape, strain and organization on functional behavior at nano scale for magneto-dielectric device applications	Ranjith Ramadurai	40-23017046, 9494424990	ranjith@iith.ac.in	Materials Science & Engineering	Indian Institute of Technology (IIT Hyderabad)	37.42	3	DMRL
43	Design and development of body worn antenna for wireless applications.	M. Nesa Sudha	422-2614393, 9443010445	nesasudha@karunya.edu	ECE	Karunya University	37.64	3	DEAL
44	Sentiment analysis of online articles.	Gaurang Patkar	0832-2741045, 9850462643	gaurang.patkar@dbcegoa.ac.in	Computer Engineering	Don Bosco College of Engineering	13.54	3	CAIR
45	Effect of oxidation on the magnetic properties of Sm ₂ Co ₁₇ permanent magnets.	Emila Panda	7932455009, 9638654827	emila@iitgn.ac.in	Materials Science and Engineering	Indian Institute of Technology (IIT Gandhinagar)	50.47	3	DMRL
46	Detection of an unknown stream cipher and recovery of its embedded keys through cryptanalysis of a class of iterative ciphers using fault analysis.	Avishek Adhikari	033-23598617, 9830	avishek.adh@gmail.com	Pure Mathematics	Calcutta University	21.24	2	SAG

47	Development of porous nanostructure embedded conductive polymer nanocomposites for EMI shielding.	K. Dinakaran	9600515788	kdinakaran@hotmail.com	Chemistry	Thiruvalluvar University	27.32	3	DMSRDE
48	Micro GC column using Micro-Fluidic device with integrated micro-heater.	L. Sujatha	044-37181044, 9444847007	sujatha.l@rajalakshmi.edu.in	Electronics & Comm. Engineering	Rajalakshmi Engineering College	134.62	3	SSPL
49	Design, simulation and development of conformal phased array antenna for airborne applications.	Dinesh Kumar	07612794463, 9425805505	dineshk@iiitdmj.ac.in	ECE	Indian Institute of Information Technology, Design & Manufacturing Jabalpur (IIITDMJ)	51.00	3	LRDE
50	Development of wireless multi sensor based intelligent security and surveillance system.	S. K. Das	0661-2462466, 9437940105	dassk@nitrkl.ac.in	ECE	National Institute of Technology (NIT)	27.24	3	ITR
51	Tuning the spin-polarisation of heusler intermetallics towards spintronic applications.	V. Kanchana	040-230106019, 09490942873	kanchana@iith.ac.in	Physics	Indian Institute of Technology (IIT Hyderabad)	29.92	3	DMRL
52	Development of hybrid nano based BLDC motor and validation of the design by using VLSI technology.	K. Boopathy	044-22751347, 9444753176	boopathy@bsauniv.ac.in	EEE	BS Abdur Rahman University	9.80	2	RCI
53	Design and development of magnetostriction based magneto-electric (ME) sensor for Landmine Detection.	A. Arockiarajan	044-2257-4070 & 9884953470	aarajan@iitm.ac.in	Applied Mechanics	Indian Institute of Technology (IIT Madras)	49.80	3	DMRL
54	Process optimization and development of thermally stable solar-blind β -Ga ₂ O ₃ photodetector.	Mukesh Kumar	1881-24-2263, 8968422263	mkumar@iitrpr.ac.in & mukesh.iitdelhi@gmail.com	Physics	Indian Institute of Technology (IIT Ropar)	53.84	3	SSPL
55	Promoting cutting-edge research in the mechanical sciences division at the Indian Institute of Science (IISc).	Govindan Rangarajan	080-22933213, 9449044736	govindan.rangarajan@gmail.com	Mathematics	IISc Bangalore	93.41	3	

56	Development of object detection techniques from degraded complex video sequences due to dynamic variation of scenes by different atmospheric conditions for security & surveillance.	Mrinal Kanti Bhowmik	0381-237-9223, 9436129933	mkb_cse@yahoo.co.in, mkb.cse@gmail.com & mrinalkantibhowmik@tripurauniv.in	Computer Science & Engineering	Tripura University	64.77	2Y 6M	CAIR
57	A rapid and field deployable portable sensor for acetylcholinesterase inhibitors detection.	Amitava Mukherjee	416-220-2602, 9994614858	amit.mookerjee@gmail.com & amitav@vit.ac.in	Centre for Nanobiotechnology	VIT University	21.31	2	DRDE
58	Next generation AMOLED display, OLED lightning and OPV products.	Debdutta Ray, Soumya Dutta & G. Venkatesh	--	--	--	Indian Institute of Technology (IIT Madras)	340.00	1	IRDE