

SANCTION OF FINANCIAL YEAR 2016-17

SL No	TITLE	PI NAME	PHONE	EMAIL	DEPT	INSTT	COST	PDC	DOMAIN LAB
1	Hybrid (RF/Digital) pre-distortion linearizer design for 13.75-14.5 GHz high power travelling wave tube amplifier.	Meenakshi Rawat	01332-284808, 8979879044	meenakshirawat@ieee.org	Electronics and Communication Engineering	Indian Institute of Technology (IIT Roorkee)	59.75	3	MTRDC
2	Quasi-2D silicon photonic crystal based hollow waveguide for optical communications and sensing.	Mukesh Kumar	0175-2393136, 08437166802	kedwalm@yahoo.co.in	Electronics and Communication Engineering	Indian Institute of Technology (IIT Indore)	51.33	3	IRDE
3	Design, Development and Performance Investigations of Wearable Antennas for Body-Centric Wireless Communications.	T. Rama Rao	09962393553	ramarao@ieee.org, rams.itce@srmuniv.ac.in	Telecommunication Engineering	SRM University	65.90	3	DLRL
4	Determination of 3D coordinates by 2D frame using laser by image processing technique.	Manish K Sharma	0120-4392517, 9873576480	pssengar@amity.edu	Electronics & Communication Engineering	Amity University	10.00	2	LASTEC
5	Studies of circulating miRNA 126 & 122 in patient with coronary artery disease; Implication for Cholesterol and Lipid dynamics & plaque angiogenesis.	Wahid Ali	0522-2257580, 09411416801	aliwahid78@gmail.com	Pathology	King George's Medical University (KGMU)	25.56	3	INMAS
6	Investigation & fabrication of humidity sensor based on electrochemical anodization technique for defence applications.	S. S. Islam	011-26987153, 9818424557	sislam@imi.c.in	Centre for Nanoscience & Nanotechnology	Jamia Millia Islamia	91.46	3	SSPL
7	Technology Development of High Current Density Nano-Scandate Cathodes.	R. K. Barik	01596-242345, 08003149501	ranjan.ceeri@gmail.com	Microwave Tubes Division	CSIR- Central Electronics Engineering Research	64.63	3	MTRDC

8	Simulation and modelling of GaN HEMTs for MMIC applications.	Arun Kumar Singh	0172-2753766, 09417429699	arunkumar.singh@outlook.com & arun@pec.ac.in	Electronics & Communication Engineering	PEC University of Technology	31.84	2	SSPL
9	Studies in Cellular Automata with its Applications on Cryptography.	B. Paramasivan	04632-222502, 9442522764	bparamasivan@yahoo.co.in	Computer Science and Engineering	National Engineering College	12.20	2	SAG
10	Development of advanced polybenzimidazole based nanocomposite materials for potential defence applications.	Arup Choudhury	0651-2276053, 9973277473	arup@bitmesra.ac.in	Chemical Engineering & Technology	Birla Institute of technology (BITS)	23.71	3	DMSRDE
11	Design, synthesis and development of chemosensors for explosive materials, warfare chemicals and organophosphates.	Narinder Singh	01881-242176, 9815250731	nsingh@iitrpr.ac.in	Chemistry	Indian Institute of Technology (IIT Ropar)	43.72	3	DMSRDE
12	To develop lab scale process for polyisoprene synthesis.	G. S. Kapur,	0129-2222204 (O), 9899137444	kapurgs@indianoil.in	Petrochemical & Polymers	indian Oil Corporation Ltd	68.33	1	HEMRL
13	Stabilization of Plague (a potential bioweapon) Vaccine using Biocompatible Polysaccharides.	K. Ruckmani	0431-2407978, 9842484568	hodpharma@gmail.com	Pharmaceutical Technology	Anna University	53.44	3	DLJ
14	Recycling of scrap germanium to ultra high pure germanium.	Y. Purushotham	(040) 27262437, Ext. 211, 09490324812	ypurushotham@cmet.gov.in	Ultra High Pure Materials Division	Centre for materials for electronics Technology (C-MET)	122.07	3	SSPL
15	Physics Based Modeling Simulation and Electrical Characterization of Quantum Effects in Multigate MOSFETs.	P. Vimala	080-42161731, 8095762386	ervimla@gmail.com	Electronics and Communication Engineering	Dayananda Sagar College of Engineering (DSCE)	17.00	3	SSPL
16	Weldability Studies on Ultra High Hard Armour (UHA) steel.	V. Balasubramanian	04144239734, 9443412249	visvabalu@yahoo.com	Manufacturing Engineering	Annamalai University	161.29	3	CVRDE

17	Memorandum of Understanding (MOU) between CeNSE, IISc Bangalore and DRDO.	Navakanta Bhat	80 2293 3250	pratap@cense.iisc.er net.in	CeNSE	IISc Bangalore	686.00	1	SSPL RIC
18	Development of Hybrid Nanocomposite based Wide Band RADAR Absorbing Materials (1-12GHz).	G. C. Nayak	0326- 2235934, 07677666466	gcnayak_bls@yahoo .co.in	Applied Chemistry	Indian Institute of Technology (IIT Dhanbad) / Indian school of mines	32.90	3	DLJ
19	Development for Thermoplastic Composites through Commingled Hybrid Yarns and Textile Preforming.	R Alagirusamy	26591419, 9818133350	alagiru@gmail.com	Textile Technology	Indian Institute of Technology (IIT Delhi)	43.09	3	DEBEL DMSRDE
20	Graphene Based THz Transistor Technology.	Mayank Shrivastava	080-2293- 2732, 95911- 40309	mayank@dese.iisc.e rnet.in	Electronic System Engineering	IISc Bangalore	469.28	4	SSPL
21	Experimental investigation on coherent beam combining of 2×100W CW lasers and study on the effect of nonlinearities in kW-Class fiber lasers. (RIC-II).	Balaji Srinivasan	--	--	Electrical Engineering	Indian Institute of Technology (IIT Madras)	497.05	2	LASTEC
22	Collaborative marsupial flying robots for advanced indoor outdoor perception.	Abhishek	512-2597515 (O), 8765069138	abhish@iitk.ac.in	Aerospace Engineering	Indian Institute of Technology (IIT Kanpur)	79.33	2	CAIR
23	Centre for Structure and Chemistry of Materials at an Atomic Scale. (CoE)	N. Ravishankar	080- 22933255	nravi@materials.iisc. ernet.in	Materials Research Centre	IISc Bangalore	5,254.36	5	SSPL
24	Investigation of nanocrystalline bismuth ferrite for possible shape memory and reconfigured antenna applications.	P. Venugopal Reddy	09866467029, 08413- 235399	paduruvenugopalred dy@gmail.com	Physics	Vidya Jyothi Institute of Technology	50.65	3	DLRL

25	Conceptualization of a second harmonic 100-150 kW, 95 GHz, CW high power gyrotron.	M. V. Karthikeyan	01332-285727, 9897021157	kartik@iitr.ernet.in & kartik@ieee.org	Electronics & Communication Engineering	Indian Institute of Technology (IIT Roorkee)	36.10	3	MTRDC
26	Classification and analysis of suspicious codes based on their static and dynamic features using multiple classifiers.	Kapil Sharma	9717470444	kapil@ieee.org	Computer Science & Engineering	Delhi Technological University/ Delhi College of Engineering	22.35	3	SAG
27	Design and catalytic large scale synthesis of new functionalized perfluorinated ketones/ethers as potential fire extinguishants.	Brijesh Rathi	011-27667458, 9310112449	brijeshrathi@hrc.du.ac.in	Chemistry	Delhi University (Hansraj College)	48.20	3	CFEES
28	Development of Nano Concrete (NC) using fumed silica and copper slag. (RIC-III)	S. Lavanya Prabha	9444064940	lavanya.prabha@gmail.com	Civil Engineering	SRM Easwari Engineering College	28.62	2	CFEES
29	Design and Synthesis of Flavones-Stilbene Based Hybrid Natural Products as Potential Anti malarial Drug.	Seetaram Mohapatra	07735675772	seetaram.mohapatra@gmail.com	Chemistry	Ravenshaw University	37.02	3	DRDE
30	Development of graphene-based sensors for detection of heavy metals in water. (Foreclosed)	Sunita Kumbhat	0291-2720840, 09414133353	skumbhat@reiffmail.com, sunitakumbhat@gmail.com	Chemistry	Jai Narain Vyas University/ University of Jodhpur	32.45	3	DLJ
31	Synthesis of macrocyclic receptors for detection and separation of radioactive elements.	Satish Kumar	9718488656	satish64@gmail.com	Chemistry	Delhi University (St. Stephen's College)	25.62	3	DLJ
32	A compact modeling of GaN based HEMT device for high power microwave application.	D. Nirmal	4222614300, 9789498810	nirmal@karunya.edu	Electronics and Communication Engineering	Karunya University	21.98	2	SSPL

33	Multi Object Tracking in the Presence of Occlusion in Aerial Image Sequences	Krishnan Rangarajan	8042161725, 9844264071	krishnanr1234@gmail.com	Information Science and Engineering	Dayananda Sagar College of Engineering (DSCE)	22.07	2	ADE
34	Development of Range Estimators using bearings only measurements. (RIC-III)	J Prakash	--	--	Instrumentation Engineering	Anna University	9.80	1	DRDL
35	Technology demonstration of nonfilter media for self cleaning air filtration system and performance prediction using Computational Fluid Dynamic (CFD) modelling and simulation. (RIC-III)	K. Arul Prakash	--	arul@iitm.ac.in	Applied Mechanics	Indian Institute of Technology (IIT Madras)	99.89	3	CVRDE
36	Advanced centre for research in high energy materials (ACRHEM) Phase-III from 01st Dec 2016 to 30 Nov 2021.	K. Venkateswara Rao	40-23010110, 23010104	kvrcr@uohyd.ernet.in & drkadiyam@gmail.com	ACRHEM	University of Hyderabad	11,327.99	5	LASTEC HEMRL TBRL
37	Development of a Highly versatile secure very wide-band wireless communication platform (VERSA-COMM) for defense and strategic applications. (RIC-II)	Bhaskar Ramamurthi	44 2257 4420	--	Electronics and Communication Engineering	Indian Institute of Technology (IIT Madras)	970.14	3	DEAL
38	Studies on shock mitigation in air by foams, composites and their sandwich structures for defence applications.	Amol A. Gokhale	25767399, 9490956743	gokhale@iitb.ac.in	Mechanical Engineering	Indian Institute of Technology (IIT Bombay)	79.88	3	DMRL
39	Surface enhanced raman scattering (SERS) based point detection and stand-off detection of explosives and chemical & biological warfare agents.	Anuj Dhawan	011-26591080, 9810087814	adhawan@ee.iitd.ac.in	Electrical Engineering	Indian Institute of Technology (IIT Delhi)	352.80	4	LASTEC CFEES DRDE

40	Formal verification of security protocols in network devices.	N. R. Sunitha	0816-2214005, 9986276851	nrsunitha@sit.ac.in & nrsunithasit@gmail.com	Computer Science & Engineering	Siddaganga Institute of Technology	22.31	2	SAG
41	Fabrication and investigation of electrical characteristics of Sol-Gel thin film metal oxide surface acoustic wave humidity sensor.	Tarikul Islam	26981717-2355, 8800902585	tislam@jmi.ac.in	Electrical Engineering	Jamia Milia Islamia	28.64	3	SSPL
42	Study on electronic transport behaviour of Carbon Nanotube Based Field Effect Transistors (CNTFETs).	Navneet Gupta	01596515674	ngupta@pilani.bits-pilani.ac.in	Electrical and Electronic Engineering	Birla Institute of technology & Science (BITS)	20.49	3	SSPL