

Average number of research projects per teacher funded by government and non-government agencies during the last five years

Name of Principal Investigator & Co-Investigator	Designation and Dept.	Durati on of project	Name of the research project	Amount sanctione d (lacs)	Name of funding agency	Year of sanction
Ramesh Chandra	Professor and Department of Chemistry	2017-2020	Synthesis and Characterization of Eco-friendly Gold supported LDH catalyst, application in Synthesis of Organic Compounds	49.6	SERB - DST	2017
Ramesh Chandra	Professor and Department of Chemistry	2016-2019	Synthesis and Biological Evaluation of a Novel Class of Anti-tumor drugs based upon the natural alkaloid noscapine	29.7	CSIR	2016
Ramesh Chandra	Professor and Department of Chemistry	2015-2016	Development of Tubulin binding Novel Noscapine Derivatives and their Nanopartilces for the Potential Treatment of Cancer and Drugs Resistant Cancer	3	DU/DST-PURSE grant	2015
Rita Kakkar	Professor and Department of Chemistry	2012-2015	Destructive decomposition of chemical warfare agents by nanocrystalline metal oxides: Theoretical and experimental studies.	19.9	CSIR	2012
R.K. Sharma	Professor and Department of Chemistry	2017-2020	Designing and synthesis of highly stable functionalized silica based organic-inorganic hybrid materials/nanomaterials for the online and selective recovery of various metals from different charged wastewater	47.2	DST	2017
Ashok K Prasad	Professor and Department of Chemistry	2015-2016	DRDO Research Project "Synthesis Characterization, Cytotoxicity and Cellular Uptake Study of Sugar-PEG Based Amphiphiles as Potential Delivery Agents	9.6	DRDO	2015
Ashok K Prasad	Professor and Department of Chemistry	2015-2016	Rasayan Project entitled "Synthesis of nucleoside- based bioactive compounds and their precursors"	6.5	Rasayan Project	2015
Ashok K Prasad	Professor and Department of Chemistry	2013-2015	Synthesis and Studies on Fire Extinguishing Capabilities of Some Fluorophosphonodieters and Fluorophosphotriesters	119.5	DRDO	2013

Rama Kant Professor and Department of Chemistry	Professor and Department of Chemistry	2013- 2016	3D Simulation of local electrochemical impedance spectroscopy and reconstruction of surface morphology from SEM Micrographs.	33.2	DST-SERB	2013
Rama Kant	Professor and Department of Chemistry	2017- 2020	Electrochemical Impedance at Rough and Porous Electrodes: Theory and Experimental Corroboration	38.5	DST-SERB	2017
Diwan S. Rawat	Professor and Department of Chemistry	2015- 2018	Aminoquinoline-pyrimidine based molecular hybrids: Synthesis, antimalarial activity, docking and heme binding studies	30.2	DST-SERB	2015
Diwan S. Rawat	Professor and Department of Chemistry	2014- 2016	Synthetic Nurr1 ligand as novel neuroprotective therapeutics to treat Parkinson's disease.	24.6	M. J. Fox Foundati on, USA	2014
Diwan S. Rawat	Professor and Department of chemistry	2012- 2015	Synthesis and anti-cancer activity evaluation of C5-curcuminoids and C5-curcuminoid-hybrids.	18.4	CSIR	2012
Diwan S. Rawat	Professor and Department of Chemistry	2012- 2015	Design and Syntheses of Novel 4-Aminoquinoline-triazine/triazole and 4-Aminoquinoline-Curcumin Conjugates as Potential Antimalarial Agents.	13	UGC	2012
Diwan S. Rawat	Professor and Department of Chemistry	2012- 2013	Synthesis, anticancer activity, QSAR, and mechanistic studies of curcumin derivatives,	23.5	DU/DST- PURSE grant	2012
Diwan S. Rawat	Professor and Department of Chemistry	2016- 2018	Development of nanocatalysts for the sustainable synthesis of novel C5-curcuminoid-indolizine/quinoline/benzofuran hybrids as anticancer agents	5.16	DST- JSPS	2016
Diwan S. Rawat	Professor and Department of Chemistry	2015 - 2015	1 st instalment of DST-Purse Grant Phase-II	2.2	DU/DST- PURSE grant	2015
Diwan S. Rawat	Professor and Department of Chemistry	2016 - 2018	2 nd instalment of DST-Purse Grant Phase-II	2.4	DU/DST- PURSE grant	2016
Diwan S. Rawat	Professor and Department of Chemistry	2012- 2013	DU R & D 2012-2013	2.5	DU/DST- PURSE grant	2012
Diwan S. Rawat	Professor and Department of Chemistry	2013- 2014	Development of novel aminoquinoline based hybrids as potential antimalarial and anti-Parkinson agents	2.81	DU/DST- PURSE grant	2013

Diwan Rawat S.	Professor and Department of Chemistry	2014-2015	“Development of magnetically recoverable copper based nano catalysts for one pot synthesis of biologically active aminoindolizines”	2.7	DU/DST-PURSE grant	2014
Diwan Rawat S.	Professor and Department of Chemistry	2016-2019	DU R&D 2015-2016	3	DU/DST-PURSE grant	2016
Sunil Sharma K.	Professor and Department of Chemistry	2017-2020	Chemo-enzymatic synthesis of multivalent dendritic architectures for the control of neurodegenerative disorders	38.6	DST	2017
Sunil Sharma K.	Professor and Department of Chemistry	2016 - 2018	Design and Synthesis of Oligoglycerol and PEG based Nanocarriers for Biomedical Applications	47.2	DST-SERB	2016
Sunil Sharma K.	Professor and Department of Chemistry	2012 - 2015	Chemo-enzymatic synthesis and development of biodegradable, structurally persistent core-shell nano-architectures for drug delivery applications	134.7	IGSTC	2012
Sunil Sharma K.	Professor and Department of Chemistry	2011-2015	Design and Synthesis of Lead Antimicrobial Compounds for Defense Applications	42.9	DRDO	2011
Sunil Sharma K.	Professor and Department of Chemistry	2012-2015	Design and Synthesis of 3-(4-Oxo-4H-chromen-3-yl) acrylates as Anti-inflammatory Agents.	16.5	CSIR	2012
Satish Kumar Awasthi	Professor and Department of Chemistry	2015-2017	Enhanced delivery of newly modified nucleic acid mimetics in bacteria	16.7	DST,	2015
Satish Kumar Awasthi	Professor and Department of Chemistry	2017-2020	New Trioxane and Tetraoxane derivatives and their in vitro and in vivo Anti-Plasmodial Studies	27.4	SERB	2017
Mahendra Nath	Professor and Department of Chemistry	2012-2013	Synthesis of Novel Periphery Modified Porphyrins as Photodynamic Agents	2.5	R&D grant	2012
Mahendra Nath	Professor and Department of Chemistry	2013-2014	Synthesis of Novel β -Substituted triazoloporphyrin-coumarin Conjugates as Photosensitizers for Photodynamic Therapy Applications	2.8	R&D grant	2013
Mahendra Nath	Professor and Department of Chemistry	2014-2015	Design and Synthesis of Sulfonamide Based Anticancer Agents	2.8	R&D grant	2014
Mahendra Nath	Professor and Department of Chemistry	2015-2016	Development of novel periphery modified porphyrins for Hg ²⁺ detection	3	R&D grant	2015

Prof. Parbati Biswas	Professor and Department of Chemistry	2013-2016	Role of non-local interactions on the fold-misfold transition of proteins	51	DST SERB	2013
Prof. Parbati Biswas	Professor and Department of Chemistry	2015-2016	Role of different physico-chemical factors in protein misfolding	3	DU/DST-PURSE grant	2015
Prof. Parbati Biswas	Professor and Department of Chemistry	2017-2020	Hydration pattern of misfolded proteins	43	DST SERB	2017
Prof. Parbati Biswas	Professor and Department of chemistry	2015-2016	Purse Grant Phase-II	2	DU-DST	2015
Prof. Parbati Biswas	Professor and Department of Chemistry	2014-2015	Role of different physico-chemical factors in protein misfolding	3	DU/DST-PURSE grant	2014
Prof. Parbati Biswas	Professor and Department of Chemistry	2014-2015	Purse Grant Phase-II	2	DU-DST	2014
Prof. Parbati Biswas	Professor and Department of Chemistry	2013-2014	Role of different physico-chemical factors in protein misfolding	3	DU/DST-PURSE grant	2013
Rajamani Nagarajan	Professor and Department of Chemistry	2017-2020	Exploring multifunction...structures	37	DST	2017
Sitharaman Uma	Professor and Department of Chemistry	2017-2020	Exploratory Synthetic Investigation to Recognize Novel Solid Oxide Materials with an Emphasis on Layered Structures	34	SERB DST	2017
M.Thirumal	Professor and Department of Chemistry	2012-2016	Dielectric resonators: why the reproducibility is always an issue in complex perovskites? – ways to fix	38.40	DST	2012
M.Thirumal	Professor and Department of Chemistry	2012-2013	Microwave dielectrics: Hexagonal perovskites, their solid solutions and composites with cubic perovskites	2.5	DU/DST-PURSE grant	2012
M.Thirumal	Professor and Department of Chemistry	2014-2015	Transition Metal Oxide Nanoparticles for Electrical, Magnetic, and Sensing Applications	2.6	DU/DST-PURSE grant	2014
Akhilesh Kumar Verma	Professor and Department of Chemistry	2009-2012	Design Synthesis and antibacterial studies of novel 1,2,3,4-tetrahydropyrazino[1,2-a]indoles on resistant bacterial strains	20	DST	2009
Akhilesh Kumar Verma	Professor and Department of Chemistry	2015-2018	Design of novel approaches for the synthesis of symmetrically/unsymmetrically substituted Arenes/hetero Arenes and synthesis of heterocyclic/carbocyclic	55	SERB-DST	2015

			compounds by sequential coupling reaction			
Akhilesh Kumar Verma	Professor and Department of Chemistry	2014-2017	“Transition-Metal-Catalyzed Double C-H Activation: Synthesis of Novel Heterocyclic Scaffolds from Unactivated Arenes”	44	SERB-DST	2014
Akhilesh Kumar Verma	Professor and Department of chemistry	2012-2014	Synthesis of Diversely Substituted Indoles by The Electrophilic Cyclization and Cu/Pd-catalyzed Coupling Reactions: Potential Anticancer Small molecules	29.8	DST	2012
Akhilesh Kumar Verma	Professor and Department of Chemistry	2010-2013	Design of Novel Diversity Oriented Synthetic Strategy (DOS) for the Regioselective Tandem Synthesis of Fused N-, O- and S-heterocycles (natural-products-like and π -conjugated) by the Electrophilic Cyclization of Alkynes	44.3	DST	2010
Akhilesh Kumar Verma	Professor and Department of Chemistry	2011-2014	Studies on Regioselective Tandem Synthesis of Fused-Isoquinolines and Naphthyridines by the Copper-Catalyzed Preferential Addition of N-Heterocycles on Ortho-haloarylalkynes followed by Arylation	20.3	CSIR	2009
Akhilesh Kumar Verma	Professor and Department of Chemistry	2009-2013	Design Synthesis and biological evaluation of novel integrase (Co-Investigator)	36	DST	2009
Indrajit Roy	Associate Professor Department of Chemistry	2017-2020	“Drug-loaded light-activated therapy”	51	DST	2017
Raj Kishore Sharma	Associate Professor Department of Chemistry	2012-2015	Synthesis and Characterization of Conducting Polymer based Nano-composite ... Novel Structures, DST Funded, till 2015	50	DST	2012
Rakesh Kumar	Associate Professor Department of Chemistry	2012-2015	Synthesis of lipophilic 4-hetaryl-1,4-dihydropyridines:A potential therapeutic candidates to combat cardiovascular diseases in defence personal at high altitude	37.2	DRDO	2012
P. Venkatesu	Associate Professor Department of Chemistry	2013-2016	Thermal stability of proteins in the presence of biocompatible ionic liquids	17	CSIR	2013
P.	Associate	2013-	Influence of co-solvents on	38	DST	2013

Venkatesu	Professor Department of Chemistry	2016	thermoreponsive polymer in aqueous media			
P. Venkatesu	Associate Professor Department of Chemistry	2013- 2016	Understanding of activity and stability of proteins in nontoxic ionic liquids	40	DBT	2013
P. Venkatesu	Associate Professor Department of Chemistry	2017- 2020	The attenuating ability of ionic liquids against the thermal, chemical and cold-induced unfolding of proteins	18	CSIR	2017
P. Venkatesu	Associate Professor Department of Chemistry	2017- 2020	The phase transition of thermo- responsive polymer in the presence of proteins as stimuli	40	DST	2017
P. Venkatesu	Associate Professor Department of Chemistry	2014- 2017	Influence of ionic liquid son proteins	10	DU/DST- PURSE grant	2014
Dhanraj T. Masram	Associate Professor Department of Chemistry	2012 – 2015	Novel polymers with hole transporting properties: pendant triphenylamine groups containing polyurethane-based tri-block copolymers through atom transfer radical polymerization	22.8	DST- SERB,	2012
Dhanraj T. Masram	Associate Professor Department of Chemistry	2014 – 2017	Synthesis, characterization and evaluation of anticancer activity of novel bioessential transition metal complexes having tumor targeting and antitumor active ligand[Co-PI]	114.6	DBT	2014
Dhanraj T. Masram	Associate Professor Department of Chemistry	2015 - 2016	Synthesis and Physiochemical Studies of Graphene Oxide – Polymeric Brushes	3	DU/DST- PURSE grant	2015
Dhanraj T. Masram	Associate Professor Department of Chemistry	2014 - 2015	Immobilization of AChE on ZrO ₂ - Graphene nanocomposite for preparation of a Chlorpyrifos biosensor Funding Agency	2.7	DU/DST- PURSE grant	2014
Dhanraj T. Masram	Associate Professor Department of Chemistry	2013 - 2016	Synthesis, Characterization and Biological Activities of Some Selected Quinolones and their Metal Complexes.	8.5	UGC	2013
Dhanraj T. Masram	Associate Professor Department of Chemistry	2014 - 2015	Decontamination of Toxic Metals from Water using Nano Fibres.	6	SERB- DST	2014

Dhanraj T. Masram	Associate Professor Department of Chemistry	2013-2014	Polymeric Heterogeneous Catalyzed One-Pot Synthesis of Aminoindolizine Frameworks via Three-Component Reaction	2.8	DU/DST-PURSE grant	2013
Dhanraj T. Masram	Associate Professor Department of Chemistry	2014 - 2015	Decontamination of Toxic Metals from Water using Nano Fibres	6	SERB-DST	2014
Surendra Singh	Assistant Professor Department of Chemistry	2017-2020	Development of efficient and reusable chiral catalysts for the asymmetric Fridel-Craft reaction for the synthesis of biological important molecules	35.9	DST-SERB	2017
Surendra Singh	Assistant Professor Department of Chemistry	2013-2016	Synthesis and Development of Reusable Organo Catalyst for the Asymmetric Organic Transformations and its Application in Synthesis of Enantiopure dlactones and Esters as Antifungal Agent	27	DST-SERB	2013
Surendra Singh	Assistant Professor Department of Chemistry	2014-2017	Synthesis and Development of Chiral Salalen Transition Metal Complexes and Their Application in Asymmetric Catalysis	21	CSIR	2014
Sasanka Deka	Assistant Professor Department of Chemistry	2017-2020	Development of advanced nanomaterials for benchmark electrocatalytic hydrogen and oxygen evolution from water	35	SERB-DST	2017
Sasanka Deka	Assistant Professor Department of Chemistry	2014-2018	Synthesis, characterization and advanced multifunctional applications of novel chalcogenide semiconductor nanocrystals	20	CSIR	2014
Sasanka Deka	Assistant Professor Department of Chemistry	2014-2017	Synthesis, characterization and evaluation of anticancer activity of novel bioessential transition metal complexes having tumor targeting and antitumor active ligands	24.7	DBT	2014
Sasanka Deka	Assistant Professor Department of Chemistry	2012-2015	Synthesis, characterization, porous assembly and application of novel metal-metal oxide hybrid nanocrystals	46.6	SERB-DST	2012
Sasanka Deka	Assistant Professor and Department of chemistry	2012-2015	Studies on the optical and magnetic properties of semiconductor-magnetic oxide hybrid nanocrystals	16.3	BRNS-BARC, DAE,	2012
Sasanka	Assistant	2014-	Synthesis and studies of the optical,	5.2	DST-	2014

Deka	Professor Department of Chemistry	2016	plasmonic and magnetic behavior of Ni/Ag-semiconductor hybrid nanostructures		DAAD	
Sasanka Deka	Assistant Professor and Department of chemistry	2011-2016	Complex nanostructures and their applications in optics, photonics and electronics	8	DU/DST-PURSE grant	2011
Sandeep Kaur	Assistant professor Department of Chemistry	2012-2015	Bioinspired Model Complexes Mimicking the Active Site of the [Fe]-only Hydrogenase Enzymes	35.9	DST	2012
Sandeep Kaur	Assistant professor Department of Chemistry	2015-2018	Mixed Valence Aspects of Mono- and Dinuclear η^6 -Arene Ruthenium Complexes with Oxygen- and Nitrogen- Based Chelating Ligands: Synthesis and Characterization	4.5	CSIR	2015
Firasat Hussain	Assistant professor Department of Chemistry	2013 - 2016	Lanthanoids containing phosphotungstate: Synthesis, structural characterization, and study of its physical properties.	14	CSIR	2013
Firasat Hussain	Assistant professor Department of Chemistry	2017-2020	Synthesis, Characterization and catalytic applications----- polyoxotungstates	32	DST-SERB	2017
Firasat Hussain	Assistant professor Department of Chemistry	2015	Organic-Inorganic hybrid of early lanthanide containing Silico and Germanotungstate	2.5	DST Purse	2015
Firasat Hussain	Assistant professor Department of Chemistry	2012 - 2014	Synthesis of gadolinium containing polyoxotungstate and its application for magnetic resonance imaging (MRI)	5.5	DRDO-CARS	2012
Firasat Hussain	Assistant professor Department of Chemistry	2015-2016	Synthesis and Characterization of yttrium POMS for CO2 sequestration.....and applications	3	DU/DST-PURSE grant	2015
Firasat Hussain	Assistant professor Department of Chemistry	2014-2015	Synthesis and characterization of yttrium-----in oxidation catalysis	2.8	DU/DST-PURSE grant	2014
Firasat Hussain	Assistant professor Department of Chemistry	2013-2014	Synthesis and & characterization of POMs encapsulated molecular magnets	2.5	DU/DST-PURSE grant	2013
Ramendra Pratap	Assistant professor	2012 - 2015	Base Induced and Palladium Catalyzed sp ² -sp ² Coupling	15	CSIR	2012

	Department of Chemistry		Strategy for the Synthesis of Highly Functionalized Poly Arenes and Their Biodynamic Properties			
Ramendra Pratap	Assistant professor Department of Chemistry	2013 - 2016	Synthesis and antiviral activity of phenanthridine and carbazole bearing nucleosides	24.9	DST	2013
Ramendra Pratap	Assistant professor Department of Chemistry	2012 - 2014	Metal and non-metal mediated economical regioselective synthesis of highly functionalized phenanthridin-6-amine and phenanthridine-nine and its anti-HIV properties	6.3	UGC	2012
Ramendra Pratap	Assistant professor Department of Chemistry	2017 - 2020	Synthesis of various functionalized isolated and fused quinolines and study of their anticancer (breast and lung cancer) properties	12.5	CSIR	2017
Ramendra Pratap	Assistant Professor Department of Chemistry	2017 - 2020	QSAR, Docking and ADME/T study of functionalized thieno[3,2-c]pyran for Breast cancer Activity	10.1	ICMR	2017
Vibha Tandon	Professor Department of Chemistry	2014-2016	Project Title: Design & Synthesis of a Library of Heterocyclic Compounds and Their Biological Evaluation as Antibacterial Agents with Special References to Topoisomerase Inhibitors	12	UGC	2014
Vibha Tandon	Professor	2013-2016	Design, synthesis and biological evaluation of novel indole and 2,3-dihydro-1H-indene derivatives in the search of potent HIV-1 integrase inhibitors	55	DST	2013
A. Sakthivel	Assistant professor Department of Chemistry	2015-2018	:Functionalized Nano-structured Silicoaluminophosphates Materials: Synthesis, Characterization and its Catalytic Applications	50	DST	2015
A. Sakthivel	Assistant professor and Department of chemistry	2011-2014	Synthesis of novel micro-mesoporous aluminophosphate nanostructures and their application in hydrocarbon transformation	54	DST	2011
A. Sakthivel	Assistant professor Department of Chemistry	2011-2014	Heterogenisation of homogeneous complexes of the type..... As Eco friendly catalysts for hydroformylation and oxygenation reactions	18	CSIR	2011

Ram Kuntal Hazra	Assistant Professor Department of chemistry	2013- 2017	Novel approaches to multicarrier phenomena of quantum dots	28.3	DST- SERB	2013
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