

**LIST OF RESEARCH PROJECTS CONTINUING/ UNDERTAKEN BY THE
TEACHERS OF THE UNIVERSITY DURING 2017-2018**

<i>Sr. No.</i>	<i>Name of Teacher</i>	<i>Department</i>	<i>Title of Research Project</i>	<i>Period</i>		<i>Funding Agency</i>	<i>Grant Sanctioned (Rs.)</i>
				<i>From</i>	<i>To</i>		
1	Dr. R.K. Mahajan	Chemistry	Spatial Distribution of uranium & associated water quality parameters in ground water in seven northern districts (Tarn Taran, Amritsar, Gurdaspur, Pathankot, Kapurthala, Jalandhar, Hoshiarpur) of Punjab	01-04-2015	31-03-2018	BRNS	21,87,565
2	Dr. Tejwant Singh	Chemistry	Self-Assembled Polymer Architecture & their composites with Quantum Dots in Ionic liquids & Ionic liquid/water binary mixtures	21-11-2014	30-11-2017	CSIR	9,99,821
3	Dr. Avinash Nagpal	Bot. & Env. Sci	Indexing & Management of viruses & viroids Infecting Tomato Crop in Punjab & Neighbouring States	27-01-2015	31-01-2018	CSIR	25,72,645
4	Dr. Palwinder Singh	Chemistry	Charismatic world of peptides: Design, synthesis and evaluation of small peptides for anti-inflammatory and anti-microbial activities	01-02-2015	31-01-2018	CSIR	12,93,429
5	Dr. AJS Bhanwer	Human Genetics	Targetted Genome Analysis of two Large diabetic retinopathy cohorts from northern and southern india	01-04-2015	31-03-2018	CSIR	18,85,757
6	Dr. S. S. Chimni	Chemistry	Organocatalyzed enantioselective decarboxylative carbon-carbon bond formation	01-01-2016	31-12-2018	CSIR	9,24,000
7	Dr Paramjit Kaur	Chemistry	Ferrocene Based Donor Acceptor Dyads as multifunctional Materials	01-06-2016	31-05-2019	CSIR	15,96,000
8	Dr. Geeta Hundal	Chemistry	Bio-Imaging and Chemosensing of Biologically Important Cations & anions using imine/hydroxyl, imine/amine, amide/pyridine and fluorescent nanoparticles	01-10-2015	30-09-2018	CSIR	18,00,000
9	Dr. H.S. Saini	Microbiology	Exploring the Metabolic Potential of Indigenous Microbial Diversity to Transform Polar Aromatic Sulfonates and understanding Metabolic Flux to Achieve Desired clean up levels of Industrial Effluents	01-06-2016	31-05-2019	CSIR	14,01,000
10	Dr Manoj Kumar	Chemistry	Design Synthesis & Evaluation of Fluorescent Probes for Nitric Oxide	01-12-2016	30-11-2019	CSIR	19,83,400
11	Dr Kamaljit Singh	Chemistry	Synthesis & Investigation on Singlet Oxygen Production efficiency & Functional Properties of New Porphyrinoids	01-12-2016	30-11-2019	CSIR	16,21,000

12	Dr Prabhpreet Singh	Chemistry	Perylenedimide Based Chemodosimeters for Diagnosis of Biothiols and Toxic analyte in Live Cells	01-12-2016	30-11-2019	CSIR	19,20,800
13	Dr Tarlok Singh Lobana	Chemistry	Metal Mediated Chemical Reactivity of Heterocyclic thiones	01-01-2013	31-12-2017	CSIR	21,98,514
14	Dr AmritPal Kaur	FST	Quality Characterizations Utilization of Buck Wheat in Different Food Products	01-04-2017	31-03-2020	CSIR	11,28,269
15	Dr Vipan Kumar	Chemistry	Synthesis of Metronidazole based Molecular Conjugates & their Bio-evaluation against Trichomoniasis	01-07-2017	30-06-2020	CSIR	17,92,200
16	Dr Sandeep K. Sood	CSE Gurdaspur	Smart disaster Management using Internet of Things (IOT) in Indian Perspective	01-05-2017	30-04-2020	CSIR	15,49,200
17	Amarjeet Kaur	Microbiology	Purification and Characterization of Alpha Glucosidase Inhibitors From Endophytic Fungi & Evaluation of their Potential as Biocontrol Agents	01-07-2017	30-06-2020	CSIR	18,04,800
18	Dr Atul Khanna	Physics	Study of Optical & Electrical Properties of Transition Metal Oxide Based Thermo & Electro-Chromic Thin Films for Application in Energy Efficient Windows	05-06-2017	04-06-2020	CSIR	16,04,800
19	Dr. P.K. Pati	Biotechnology	Structure-function analysis of plant NADPH oxidase	16-12-2014	15-06-2018	DBT	14,11,200
20	Dr. Gurcharan Kaur	Biotechnology	Study of Molecular and cellular basis of obesity associated neuroinflammation and the role of natural products as neuroprotective agents	03-12-2015	02-12-2018	DBT	40,00,000
21	Dr. Gagandeep Kaur Gahlay	Mol. Bio. & Biochemistry	Characterisation of the role of carbohydrates in sperm-egg interactions	23-03-2015	22-10-2018	DBT	51,23,717
22	Dr. Prabhjeet Singh	Biotechnology	Role of peptidyl prolyl cis-trans isomerases in acquisition of thermotolerance in wheat	02-07-2015	01-07-2018	DBT	47,63,200
23	Dr. B.S.Chadha	Microbiology	"Indo-Brazil Project entitled" Biorefining of sugarcane bagasse for production of bioethanol and value added products	02-05-2016	01-05-2020	DBT	36,78,400
24	Dr. H.S. Saini	Microbiology	Field scale evaluation of Bioreactor development with indigenous microbial inocula for treatment of textile industrial effluents	11-08-2017	10-08-2020	DBT	50,59,000
25	Dr.B.S. Chadha	Microbiology	Bioprospecting for novel lignocellulolytic glycosyl hydrolases and auxiliary enzymes from diverse thermophilic fungal strains using proteome based approaches	15-06-2017	14-06-2020	DBT	53,48,400

26	Dr. Subodh Kumar	Chemistry	Fabricated nano-structured organic hybrids Chemosensors and logic Devices	11-08-2015	10-08-2018	DST	1,21,36,400
27	Dr. Vipin Kumar	Chemistry	4-Aminoquinoline – phthalimide and 4-aminoquinoline-1, 8-naphthalimide conjugates : Synthesis and anti-material evaluation	15-01-2016	14-01-2019	SERB	25,76,000
28	Dr. Gurcharan Kaur	Biotechnology	Behavioral and molecular study of relationship between chronic sleep deprivation and cognitive impairments	10-06-2015	09-06-2018	SERB	40,43,2000
29	Dr. Sanjana Mehrotra	Human Genetics	Genetic and functional analysis of cytokine gene variants as risk factors for primary glaucoma in North Indian population	10-06-2015	09-06-2018	SERB	24,70,000
30	Dr. Gursatej Gandhi	Human Genetics	Molecular Genetics Correlates of DNA Damage and repair and of circadian Rhythm Dysfunction in Humans from Non-Ionizing Radiation Exposure	15-06-2015	01-06-2018	SERB	44,16,000
31	Dr. Amritpal Kaur	Food Sci & Tech	Effects of processing and storage conditions on physicochemical properties and stability of oils from different plant sources	14-08-2015	13-08-2018	SERB	45,00,000
32	Dr. Harminder Singh	Mechanical Engg, GNDU RC Jalandhar	Study of the performance of nanostructured coating at elevated temperatures	23-09-2015	22-09-2018	SERB	32,06,000
33	Dr. Venus Singh Mithu	Chemistry	Structural Characterization of cell-membrane mediated amyloidogenic-protein aggregation and the association membrane disruption at molecular level	19-10-2015	18-10-2018	SERB	24,46,000
34	Dr. Inderpreet Kaur	Chemistry	Modification of metal surface by self-assembly of heterocycle based thiols and dithiols: Towards selective electrochemical sensing	19-11-2015	18-11-2018	SERB	26,02,000
35	Dr. Vandana Bhalla	Chemistry	Aggregation Induced Emission Enhancement Materials: Synthesis and Evaluation of Photophysical Properties	01-12-2015	30-11-2018	SERB	50,94,000
36	Dr. Palwinder Singh	Chemistry	Design and synthesis of Enzyme models: Mechanistic studies and Medicinal Applications	15-01-2016	14-01-2019	SERB	42,06,000
37	Dr. S.S Chimni	Chemistry	Organocatalytic Asymmetric Vinylogous Reactions : An Enantioselective Approach to Chiral functionalized Organic molecules	04-01-2017	03-01-2020	SERB	39,66,600
38	Dr. Tejawant	Chemistry	Thermo-responsive liquid crystalline micro-emulsions based on Ionic liquids, Preparation Characterization and applications	24-06-2014	23-06-2017	SERB	24,88,000

39	Ms. Amandeep Kaur	Human Genetics	Prevalance of genetic polymorphisms (MTHFR, MTRR, MTR, RCFI) among north mothers as risk factor for down syndrome	19-06-2014	18-06-2017	SERB	14,69,000
40	Dr Aman Mahajan	Physics	Electrochromic photoanodes with enhanced light harvesting capability properties for fabrication of Plasmonic dye sensitized solar cells	21-03-2017	20-03-2020	DST SERB	30,59,182
41	Dr Bindiya Arora	Physics	Study of Rydberg atoms for various applications	17-03-2017	16-03-2020	SERB	18,38,980
42	Dr Manoj Kumar	Chemistry	Self assembled Donor acceptor systems with tunable photo Physical properties	23-03-2017	22-03-2020	SERB	66,83,600
43	Dr Saroj Arora	Bot. & Envi Science	Modulatory effect of 4 methyl thioethyl isothiocyanate on DMBA induced over expression of HIF-1 α and glycolytic enzymes in female wistar rats	24-03-2017	23-03-2020	SERB	31,19,000
44	Dr Subodh Kumar	Chemistry	Self-assembly of designed benzimidazolium and triazolium derivatives pursuit for fluorescent molecular Probes for environment and medically relevant species	23-03-2017	22-03-2020	SERB	51,98,600
45	Dr Sukhjeet Singh	Mechanical Engg. Sathiala	Fault Diagnosis of Electro-mechanical Machines using stator current monitoring techniques	14-06-2017	13-06-2020	SERB	26,83,370
46	Dr Rajbir Bhatti	Pharmaceutical Science	Exploring the Potential of naturally derived coumarins as potential agents in modulating experimentally induced fibromyalgia	09-10-2017	08-10-2020	SERB	30,69,200
47	Dr. B.S. Chadha	Microbiology	Thermophilic fungi from diverse ecosystems and their potential for producing industrially important enzymes (AMAAS)	25-06-2014	31-03-2017	ICAR	31,62,000
48	Dr Aman Mahajan	Physics	Fabrication of Plasmonic dye sensitized solar cell using ion beam engineered photoanode	11-11-2016	10-11-2019	IUAC	5,35,267
49	Dr. Atul Khanna	Physics	Tailoring of photoluminescence properties of rare earth doped tellurite glasses by swift heavy ion irradiation	12-1-2017	11-01-2020	IUAC	5,20,200
50	Dr. P.K. Banipal	Chemistry	Studies on Solvation Behaviour of polyhydroxy Compounds in Mixed Aqueous Media	01-07-2015	30-06-2018	UGC	14,28,600
51	Dr. A.S. Soodan	Bot & Env. Sci.	Investigations into phytoliths for Identification and Taxonomic Analysis of Grasses of North Western Himalayan Region	01-07-2015	30-06-2018	UGC	11,25,000
52	Dr. Jasveen Kaur	University of Business	Gender Differentiation in Projecting Antecedents &	01-07-2015	30-06-2018	UGC	10,23,000

	School						
			Consequential of Impulse Buying Behaviour of Indian Retail Shoppers				
53	Dr. Inderpreet Kaur	Chemistry	Self-assembled monolayers of functional molecular monowires: Electron transportation studies and applications for electrochemical sensing of heavy metal ions	01-07-2015	30-06-2018	UGC	12,18,600
54	Dr. Baljinder Singh Bal	Physical Education	Research Award to Dr. Baljinder Singh Bal	01-03-2015	30-06-2016	UGC	1,00,000
55	Dr. Manpreet Singh Bhatti	Bot. & Env. Sci.	Diminution of arsenic and fluoride from drinking water electrocoagulation and nano-particles based absorbents	01-07-2015	30-06-2018	UGC	13,60,000
56	Dr. Jagrup Singh Sekhon	Political Science	Life at the cutting Edge: Political Sociology of the people living in the Border Best of Punjab	01-07-2015	30-06-2018	UGC	10,67,400
57	Dr. N.S. Sodhi	Food Sci & Tech	Development of Electromyographic methodologies to study texture of Indian Foods	01-07-2015	30-06-2018	UGC	16,60,800
58	Dr. (Mrs) Rajesh Kumari Manhas	Microbiology	Isolation of endophytic and soil antinobacteria and evaluation of their plant growth promoting potential	01-07-2015	30-06-2018	UGC	8,96,000
59	Dr. R.S. Singh	Food Sci & Tech.	Characterization and modification of cereal grains for value addition	01-07-2015	30-06-2018	UGC	14,22,000
60	Dr. Aparna Bhatia	Commerce	Contemporary Issue in corporate Social Reporting Practices in India: A journey from voluntary to Mandatory Regima	01-07-2015	30-06-2018	UGC	7,03,400
61	Dr. Daljit Singh Arora	Microbiology	Profiling of Moringa oleifera Endophytes with Antimicrobial Potential	01-07-2015	30-06-2018	UGC	10,70,000
62	Dr. Amarjit Singh Sidhu	University Business School	Status of Public Health Care Services in Punjab: A Case Study of Punjab Health Systems Corporation (PHSC)	01-07-2015	30-06-2018	UGC	10,22,000
63	Dr. Rupan Dhillon	Psychology	Depression hopelessness emotional autonomy and hardness as determinants of suicidalideation in adolescence	01-07-2015	30-06-2018	UGC	8,37,400
64	Dr. Sanehdeep Kaur	Zoology	Influence of endophytic fungi on insect herbivore and its parasitoid: Understanding multitrophic interaction for effective bio control strategies	01-07-2015	30-06-2018	UGC	15,35,000
65	Dr. Satwinder Kaur	Zoology	Biocidal biochemical effects of extracts/polyphenolic rich fractions from bark of Acacia nilotical(L.) Del. against the common cutworm spodoptera litura	01-07-2015	30-06-2018	UGC	15,49,500

66	Dr. Sandeep Sharma	Physics	UGC Start up grant	11-12-2016	10-02-2018	UGC	6,00,000
67	Dr. Mandeep Singh	Physics	UGC Start-up grant	06-10-2015	05-10-2017	UGC	6,00,000
68	Dr. Gurpreet Kaur	Music	Padam Bhusan Dr Sardar Anjum ki Rachnay on ka sangeetik Vishleshan (Gazal ke Vishesh Sandharbh Mein)	01-07-2015	30-06-2018	UGC	12,39,800
69	Dr. Sandeep Sharma	Comp. Sci. & Engg.	Grant for Providing Wi Fi connectivity under the centrally Sponsored Plan scheme of National Mission Education through Information Recommunication Technology	01-04-2016	31-03-2017	UGC	9,00,000
70	Dr. Satwinder Jeet Kaur	Bot. & Env. Sciences	Studies on the antiproliferative acritvitiy of Glycyrrhiza glabra L, polyphenols and their roel in targeting cellular signaling pathways	01-03-2015	29-02-2018	ICMR	5,88,000
71	Dr. PMS Bedi	Pharmaceutical	Design synthesis and anticancer evaluation of triazole tethered cis locked chalcones – isatin bifunctional hybrids : Synthesis and anticancer evaluation	01-03-2015	29-02-2018	ICMR	6,21,000
72	Dr. P.K. Pati	Biotechnology	Development of IN-SITU Regeneration system (Cell suspension & protoplast) and comparative analysis of bioactive compounds of Rhodiola Species: A high value medicinal plant from Trans-Himalayan Region of Ladakh	17-12-2015	16-12-2017	DRDO	8,80,000
73	Dr Atul Khanna	Physics	Study of Short-range structure of tellurite & borotellurite glasses by EXAFS	08-02-2017	07-02-2020	UCG-DAE CSR Indore	7,39,800
74	Dr Anupinder Singh	Physics	Detailed Study of Magneto electric coupling using neutiron scattering and magnetic tools in ND FeO ₃ -PbTiO ₃ Solid Solutions	01-01-2017	31-12-2019	UGC DAE CSR Mumbai	10,09,838