

Sponsored Projects Details (Completed)

	Deptt.	Title of the Project	P.I. Name	Period	Funding Agency	Funds (in Lacs)	Status
1	App. Sci	Land Cover Mapping of Chandigarh	Prof. L.N Sharma	2005-07	DST	0.50	Completed 20/04/2007
2	Elect.	Identification of Electrical Energy Saving Potentials For All UT Govt. Offices Chandigarh	Prof. Tilak Thakur	2007-09	DST	2.10	Completed 24/09/2009
3	Mech.	NASA The great moon buggy race 2009-UFO Team I	Prof. Sarbjit Singh	2008-10	Chandigarh Administration	11.12	Completed 21/01/2010
4	Mech.	NASA The great moon buggy race 2009-Kalpana Team II	Prof. Sarbjit Singh	2008-10	Chandigarh Administration	10.42	Completed 21/01/2010
5	App. Sci	Design of hybrid task specific ionic liquid – inorganic matrixes	Prof. Vasundhara Singh	2007-09	Indo French Centre for Promotion of Advance Research	27.25	Completed 11/03/2010
6	CSE	Development of Industry Relevant Microcontroller/Microprocessor Virtual Laboratory	Prof. Sanjeev Sofat	2006-08	AICTE	11.00	Completed 08/09/2010
7	Mech.	Formula SAE 2010 (Australia)	Prof. D.R Prajapati	2009-11	Chandigarh Admin, Punjab Govt., Trident PTL	15.00	Completed 22/03/2011
8	CSE	Design and development of dependable secure and efficient protocols for wireless mesh network	Prof. Divya	2009-11	DIT	46.64	Completed 30/08/2011
9	Prod.	U.S Space Centre Moon buggy April, 2011	Prof. R. S Walia	2011-12	DST, Chd. Admn., Govt. of Punjab	10.62	Completed 05/09/2011
10	App. Sci	Spatio-Temporal Monitoring Of A Glacier Using Satellite Remote Sensing & Luminescence	Prof. L.N Sharma	2007-10	DST	87.14	Completed 31/03/2012
11	Civil	Studies on mechanism of attachment/detachment of contaminants in the soil system	Prof. S.K Singh	2006-09	AICTE	5.00	Completed 18/06/2012
12	Aero.	Design & Development of pulse detonation propulsion system test Rig	Prof. T.K Jindal	2009-13	TBRL	9.63	Completed 27/02/2013
13	Prod.	Improvements in Cycle Rickshaws of Chandigarh	Prof. Parveen Kalra	2009-10	Governor of Punjab Discretionary Grant	1.45	Completed 12/02/2014
14	Civil	Assessment of geochemical parameters of ground water in Chandigarh	Prof. Siby John	2007-09	DST, Chd. Admn	2.40	Completed on 13/02/2014
15	Civil	Experimental study of mechanical behaviour and durability of HPC	Prof. Sarita Singla	2006-08	AICTE	9.80	Completed on 08/01/2015
16	Mech.	Establishment of new National MEMS Design Centre	Prof. Arun K Lal	2009-12	Aeronautical Development	8.50	Completed on 04/03/2015

					Agency, Bangalore		
17	CSE	Development of Cloud Based Framework for Delivering Security as a Service	Prof. Divya	2012-13	Deptt. of Information Technology, Govt. of India	48.39	Completed on 12/03/2015
18	CSE	IBM Shared University Research Grant Award : Information Security Model for the Banking Industry	Prof. Divya	2013	International Business Machine Corporation (IBM)	2.50	Completed 11/02/2016
19	Electrical Engg.	Dual-Axis Sun Tracking Solar PV Panel using Arduino and Lab View	Prof. Tarlochan Kaur	6 months 03/02/2016	TATA Power Delhi Distribution Board Pvt. Ltd. (TPDDL)	0.25	Completed 30/09/2016
20	Electrical Engg.	Design and Implementation of a Solar Powered Smart Battery Charge Controller	Prof. Tarlochan Kaur	6 months 03/02/2016	TATA Power Delhi Distribution Board Pvt. Ltd. (TPDDL)	0.35	Completed 17/10/2016
21	Production Engg.	An Ergonomic Evaluation of Ingress and Egress Motion of Users for CTU Buses	Prof. Parveen Kalra	17/02/2014	DST Chandigarh Administration	0.70	Completed 19/11/2016
22	Civil	Management of Parking in Chandigarh	Prof. Umesh Sharma	1 Yrs 03/08/2015 to 02/08/2016	DST, Chandigarh Administration	1.25	Completed 17/02/2017
23	Civil	Monitoring & performance evaluation of STP at Raipur Khurd, Chandigarh	Prof. Siby John	2010-11	Engineering Deptt. Chandigarh Administration	4.44	Completed 20/02/2017
24	Director Office	Drones Project for Aerial Survey/Re-Survey of UT Chandigarh (joint project of PEC & IIT Delhi)	Prof. Manoj K. Arora	20/07/2016 Till 20/09/2016 2 months	Chandigarh Administration	13.90	Completed 08/03/2018
25	CSE	Real Time Ambient Air Quality Monitoring and Reporting Using Sensors – A Pilot Study	Prof. Divya Bansal	6 months 12/05/2017 till 12/11/2017	DST, Chandigarh Administration	12.00	Completed 09/03/2018
26	E&EC	Design and Development of Intelligent Car Parking Management System	Prof. Sukhwinder Singh	11 Months 23/08/2016 till 23/07/2017	DST, Chandigarh Administration	1.0	Completed 03/05/2018
27	App. Sci	Synthesis of High Energy Density Ferroelectric Materials for Shock Wave Ferroelectric Generators	Prof. Sanjeev Kumar	18/04/2016 till	TBRL DRDO, Chandigarh	10.0	Completed 10/05/2018

				28/02/2018			
28	CSE	Data Mining and Analysis of Indian Origin Academicians in Foreign Universities for Exploring opportunities of Academic Interaction	Prof. Rajesh Bhatia	30 months 21/04/2015 to 21/10/2017	Department of Science & Technology, New Delhi	64.03	Completed 30/06/2018
29	Director Office	Study of Glacier Dynamics using Advanced Remote Sensing Techniques	Prof. Manoj K. Arora	24/09/2013 till 02/12/2017	DST, New Delhi	28.49	Completed 08/08/2018
30	E&EC	Simulation and Modeling of GaN HEMTs for MMIC Applications	Prof. Arun Kumar Singh	2 yrs 29/08/2016 till 28/08/2018	(ER&IPR) DRDO, New Delhi	31.84	Completed 28/08/2018
31	Director Office	Facies Mapping of Gangotri Glacier using A WiFS data: A Super –Resolution approach	Prof. Manoj K. Arora	25/02/2015 to 04/03/2018	SERB, DST, New Delhi	10.70	Completed 08/09/2018
32	Civil	Feasibility Study for the Management of Strom Water through use of Pervious Concrete in Chandigarh.	Prof. S.K Singh	02/07/2015 to 02/07/2017	Department of Environment, Chandigarh Administration	2.53	Completed 26/12/2018
33	CSE	CARTS: Communication Assisted Road Transportation Systems	Prof. Divya Bansal	27/12/2013 till 31/12/2018	ITRA, Ministry of Communications and Information Technology, GOI	54.33	Completed 31/12/2018
34	Civil Engg.	Object based image classification of high resolution remote sensing data for urban mapping	Prof. Har Amrit Sandhu	17/03/2016 (1 yr)	DST, SERB New Delhi	5.50	Completed 18/07/2019
35	E&EC	Graphene Based Ballistic Rectifiers	Prof. Arun Kumar Singh	3 yrs 18/08/2016 till 18/08/2019	SERB, DST, New Delhi	65.70	Completed 18/08/2019
36	Mechanical Engg.	Study of Hybrid Solar Air Conditioning	Prof. Ankit Yadav _ PI	26/10/2018 1 Year	DST, Chandigarh Administration	1.50	Completed 2019
37	Electrical Engg.	To Study Impact of Array Tilt Angle, Orientation, Augmentation of Power Output of Rooftop Solar PV Panels for Chandigarh	Prof. Tarlochan Kaur Co-PI – Prof. Poonam Saini	2 years 19/01/2018 till 18/01/2020	DST, Chandigarh Administration	8.00	Completed 28/01/2020
38	Aerospace Engg.	Experimental Parametric Optimization, Detonation Behavior Study of Pulse Detonation	Prof. T.K Jindal	2 yrs 16/06/2017	Aeronautical R&D Board, DRDO, New	29.10	Completed 02/03/2020

		Engine		till 15/06/2019	Delhi		
39	Aerospace Engg.	Performance Analysis and Optimization for Fuze Applications (CARS Project)	Dr. Rakesh Kumar	1 Years 08/12/2017 till 07/12/2018	TBRL Chandigarh	19.80	Completed 11/03/2020
40	Applied Sciences	Investigations on Structural, Dielectric and Magnetic properties of transition metal doped GaFeO ₃ (CRS-M-258)	Prof. Sanjeev Kumar	2 yrs 01/01/2017 to 31/12/2018	UGC-DAE Consortium for Scientific Research	1.34	Completed 31/03/2020
41	Production Engg.	Design and Development of a Prototype of COVID-19 Sample Collection Booth/Isolation Box & Design and Development of a Prototype of Face Shield for Government Hospitals of Haryana State	Prof. R.M Belokar	1 Month April 2020	Government of Haryana State	10.50	Completed 30/04/2020
42	Materials & Metallurgical Engg	Development of a Light Weight Composite Sandwich Panel for Blast Mitigation	Prof. J.D Sharma	3 years 08/03/2017 till 16/06/2020	Armament Research Board, DRDO, New Delhi	43.24	Completed 16/06/2020
43	Civil Engg	Solution for Slope Stability of Road Between Zero Bridge to Koteshwar (IIT Roorkee & PEC Chandigarh)	Co-PI Prof. H.A.S Sandhu	3 yrs 02/12/2016 till 01/12/2019	Tehri Hydro Development Corporation Limited (THDCL)	49.19	Completed September 2020
44	Materials & Metallurgical Engg.	Design and Development of Biodegradable Mg Alloy Implants for Orthopedic Applications	Dr. Uma Batra	3 years 07/08/2017 till 23/11/2020	SERB, DST, New Delhi	77.39	Completed 27/11/2020
45	Aerospace Engg.	Configuration Design for Pulse Detonation Engine Combuster	Prof. T.K Jindal	2 yrs 21/07/2016 till 21/07/2018	TBRL, Chandigarh	9.38	Completed 30/12/2020
46	Civil Engg.	Research & Planning Grant for Preparation of Conservation Management Plan under the "Keeping it Modern-KIM" initiative of the Getty Foundation, Los Angeles, USA	Prof Siby John – PI Co-PI - Prof. H.A.S Sandhu	01/11/2017	Getty Foundation, Los Angeles, USA	96.66	Completed
47	Civil Engg.	Monitoring and Assessment of Eutrophication Potential of Sukhna Lake, Chandigarh	Prof. Siby John	2 Year 14/03/2019	DST, Chandigarh Administration	2.50	Completed 31/03/2021
48	Applied Sciences	Structure-Microstructure-property correlation study in chemically modified lead free BZT-BCT	Prof. Sanjeev Kumar CO-PI Arun K. Singh,	3 years 05/10/2017	(ER&IPR), DRDO, New Delhi	48.35	Completed 04/04/2021

		solid solutions	E&EC	till 04/10/2017			
49	App. Sci	Characterization & Modeling of Physical Properties of Different Forms of Snow and Ice using Field and Remote Sensing Observations	Prof. L.N Sharma -	3 yrs 18/03/2016 to 17/03/2019	DST, New Delhi	21.0	Completed 24/04/2021
50	Applied Sciences	New Approaches towards Synthesis of Enigmol Sphingolipids and their Analogues and Anti-Cancer Agents	Prof. Vasundhara Singh	3 years 30/06/2017 till 30/06/2020 (extended till 04/07/2021)	SERB, DST, New Delhi	27.75	Completed 04/07/2021
51	Electrical	Energy Conservation for street lighting through adaptive brightness	Prof. Tejinder Singh Saggu PI M.S Rajeshwaran Aero	1 Year 20/03/2020 (Extended upto 19.07.2021)	DST, Chandigarh Administration	1.00	Completed 12/07/2021

Sponsored Projects Details (In-Progress)

S.No	Deptt.	Title of the Project	P.I. Name	Period	Funding Agency	Funds (in Lacs)	Status
1.	E&EC	Grant for Embedded Curriculum and Lab Based on Intel Atom	Prof. Neelam Rup Parkash	28/08/2012	Intel Semi Conductor (US) Ltd.	4.68	In- Progress
2.	Materials & Metallurgical Engg.	Establishment of Design Innovation Centre (DIC) under the scheme National Initiative for Design Innovation “ Transparent Ceramic Materials & Technology”	Prof. J.D Sharma	25/02/2016 3 years (extended till 30/06/2021)	MHRD, Department of Higher Education, New Delhi	125.00	In- Progress
3.	Civil Engg.	Setting of Digital Land Record Centre at PEC under Digital India Land Record Management Program	Coordinator Prof. H.A.S Sandhu Co-Coordinator Prof. Mohit KumarProf.	25/11/2016	Chandigarh Administration	17.00	In- Progress
4.	E&EC	Project Under FIST – 2016 Level – I To Strengthen the post graduate teaching and research facilities in the Department (Electronic Device Fabrication and Characterization Facility)	HOD E&EC	5 yrs 02/11/2017	DST, New Delhi	217.00	In- Progress
5.	Civil Engg.	Setting up of “Kalpana Chawla Chair” on Geospatial Technology for Indian Railways at PEC University of Technology, Chandigarh	Coordinator Prof. H.A.S Sandhu	02-08-2017	Ministry of Railways, Govt. of India, New Delhi	(Rs. 10.0 crore as endowment money)	In- Progress
6.	Civil Engg.	Drought Area Mapping using Geostatistical Modeling Approach	Prof. Kamal Kumar	3 years 14/03/2017 till 14/03/2020	SERB, DST, New Delhi	15.10	In- Progress
7.	Mechanical Engg.	Design and Development of Low Cost Micro Electro-Chemical Discharge Machining for Non Conductive Materials	Prof. Sarbjit Singh	3 years 14-06-2017 till 13-06-2020	SERB, DST, New Delhi	10.21	In- Progress
8.	CSE	City Probe: A City-Scale pervasive Sensing System for Monitoring Road Conditions, Air and Sound Pollution under IMPRINT-INDIA	Prof. Divya Bansal	3 years 11/08/2017 extended till 31/03/2021	Ministry of Urban Development & MHRD, Government of India	60.00	In- Progress
9.	Computer Centre	Smart City Innovation Centre	Coordinator Sh. Sanjay Batish	17/10/2017	Punjab Government	22.50	In- Progress

10.	CSE	Young Faculty Research Fellowship (YFRF) of Visvesvaraya Ph.D Scheme for Electronics & IT	Prof. Divya Bansal	05 Years 19/01/2018 Till 19/01/2023	Digital India Corporation (formerly Media Lab Asia) under Ministry of Electronics & Information Technology, GOI	9.80	In- Progress
11.	Civil Engg.	Mapping Saturated Hydraulic Conductivity and Water Retention Relationship for Gambhar Watershed (Himachal Pradesh)	Prof. Kamal Kumar	3 years 10/03/2018 till 10/03/2021	SERB, DST, New Delhi	22.70	In- Progress
12.	Applied Sciences	Modulation of Magnetic Ordering for Gigantic Spin-Mediated-Polar Dynamics in Improper Multiferroics	Prof. Gyaneshwar Sharma	3 Year 31/03/2018	UGC-DAE Consortium for Scientific Research	0.45	In- Progress
13.	Applied Sciences	Study of Energetic Ionic Liquids as New Explosive Materials	Prof. Vasundhara Singh	3 Year 10/07/2018 till 10/06/2021	DRDO (TBRL) Chandigarh	24.22	In- Progress
14.	CSE	Data Mining and Analysis of Indian Origin Academicians in Foreign Universities for Exploring opportunities of Academic Interaction – updation/Maintenance and Extension exercise for BRICS countries-reg.	Prof. Rajesh Bhatia	06/09/2018 1.5 Year	Ministry of Science & Technology, Govt. of India, New Delhi	24.82	In- Progress
15.	Electrical Engg.	PV Integration with Multilevel Inverter for Standalone System	Prof. Jagdish Kumar- PI Prof. Rajdeep Surya – Co-PI	26/10/2018 1 Year	DST, Chandigarh Administration	1.50	In- Progress
16.	E&EC	Van der Waals Heterostructure based self-switching diode	Prof. Arun K. Singh	3 Year 26/02/2019	SERB, DST, New Delhi	50.58	In- Progress
17.	Cyber Security Research Centre	Framework for Generating Actionable Intelligence from Cyber Space using Computational Techniques & Analysis under Cyber Security ICPS Programme of DST, GOI, New Delhi	Prof. Divya Bansal	3 Year 13/03/2019	DST, GOI, New Delhi	43.58	In- Progress
18.	Applied Sciences	Composition-Microstructure-Property Correlation Studies of eco-friendly (lead free) magnetoelectric multiferroic composites	Prof. Sanjeev Kumar	3 Year 06/05/2019	SERB, DST, New Delhi	62.26	In- Progress
19.	Cyber Security	'Theme Co-ordination Project' for Cluster Proposal under the Cyber	Prof. Divya Bansal	3 Year 13/03/2019	DST, GOI, New Delhi	67.40	In- Progress

	Research Centre	Security (CS) Research of Interdisciplinary Cyber Physical Systems (ICPS)					
20.	Applied Sciences	Raja Ramanna Fellowship (RRF) Track-I	Dr. Arun K. Grover (Emeritus Professor, Honorary)	3 years 16.08.2019 till 11.12.2021	Department of Atomic Energy, Government of India	13.5	In- Progress
21.	Cyber Security Research Centre	The Ganga Knowledge Model Sub-systems, Components and their interaction in the Ganga river eco-system	PI Dr. Rashmi Sanghi Prof Divya Bansal (Mentor)	2 Year 27/09/2019	DST, GOI, New Delhi	21.95	In- Progress
22.	CSE	“Early warning system for flood prediction in the river basins of India – Development of an intergrated Reservoir Operation Model”	Prof. Rajesh Bhatia	4 Year 28/08/2019	CDAC, Pune/Meity	55.65	In- Progress
23.	MME	Indigenous Development of Austempered Ductile Iron Technology for use in Automobile and Agricultural Industries in India	Prof Uma Batra	3 Year 25 Oct. 2019	Ministry of Steel (Technical Division), Govt. of India, New Delhi & M/s JMP Industries, Jalandhar	189.00	In- Progress
24.	ECE	Development of a Novel Concept to Detect and Recognize any Forced Physical act Conducted by Suspicious Human/s against women in public parks	Prof. Sukhwinder Singh PI Prof. Rupali Verma, CSE	18 Months 20/03/2020	DST, Chandigarh Administration	2.46	In- Progress
25.	Computer Centre	IoT Based Accident Prevention, Detection and Alert Systems using GPS & Heat Mapping of Accident Prone Areas in Chandigarh	Dr. Sanjay Batish Sh. Sushil Kumar & Sh. Prabhsimran	8 Months 20/03/2020 upto (Extended 19.11.2021)	DST, Chandigarh Administration	1.00	In- Progress
26.	CSE	Machine Learning Based Models for Avalanche Prediction using Satellite Data	Prof. Padmavati CSE PI Prof. L. N Sharma CoPI	15 Months 28/04/2020	SASE, DRDO Chandigarh	9.39	In- Progress
27.	Applied Sciences	Hybrid Organic- Inorganic Tin Halide-Based Stable Perovskite Solar Cells	Prof. Shilpi Chaudhary	2 Year 31/12/2020 to 31/12/2022	SERB, (SRG) DST, New Delhi	33.11	In- Progress
28.	Applied	Synthesis and Development of	Prof. Sonu	2 Year	SERB, (SRG) DST,	19.38	In- Progress

	Sciences	Amyloid-Targeting Multifunctional Copolymers	Kumar	29/12/2020 to 29/12/2022	New Delhi		
29.	MME	Synthesis of Nanostructured Polyaniline and Metal Oxides for Electrochemical Biosensors and Energy Conversion Applications under Ramalingaswami Fellowship	Dr. Anu Prathap M. Udayan	05 Years 01/04/2019 till 31/03/2024 (in PEC from Nov. 2020)	Department of Biotechnology, Government of India	113.10	In- Progress
30.	Workshop & Skill Development Centre	Cluster of R & D Projects undertaken for 3BRD, Indian Air Force, Chandigarh	Prof. R.M Belokar	-	3BRD, Indian Air Force, Chandigarh	0.59	In- Progress
31.	Aerospace Engg.	Research Project on Software Development and Hardware Modification for Vibration Monitoring System	Prof. M.S Rajeshwaran	06 Months	3BRD, Indian Air Force, Chandigarh	1.15	In- Progress