

### 3.2.4.2 List of research projects and funding details

Sl.No.	Department of Principal Investigator/ Co Investigator	Name of the Project/Endowments, Chairs	Name of the Funding agency	Funds provided (INR in lakhs)	Year of Award
1	Applied Physics	Synthesis and Characterization of Nanostructured Metal Nitrides for Perovskite Solar Cells	UGC - DAE, IUC-CSR, Indore	7.29	2022
2	Master of Business Administration	Introduction of Smart Warehouses for Post Harvest Problems of Chhattisgarh Farmers	Chhattisgarh State Planning Commission	5	2022
3	Electrical Engineering	Design and Development of Cost Effective Machine Vision Based Smart Drone Recharged via Wireless Power Transmission	DST (Department of Science & Technology) - Technology Development	34	2021
4	Applied Physics	NIR-Sensitive GD 203 based materials as triggers for photoreaction of photosensitive materials for biomedical application"	Department of Science and Technology, New Delhi (DST) Govt. of India	33.47	2021
5	Mechanical Engineering	Idea Development, Evaluation and Application	All India Council for Technical Education (AICTE)	45.30	2021
6	Electronics & Telecommunication Engineering	Use of Binaural Auditory Beats for reducing attention Deficit Disorder in Autistic children & analyzing the effectiveness.	Chhattisgarh Swami Vivekanand Technical University, Bhilai	2.00	2020
7	Master of Business Administration	Contemporary issues in HRM	MDP on contemporary issues in HRM Sponsored by MSME	0.25	2020
8	Civil Engineering	Effect of Epoxy coating on structural steel section under tension	Chhattisgarh Swami Vivekanand Technical University, Bhilai	2.00	2020
9	Electrical Engineering	Implementation of Three phase inverter (Matrix Converter)	Chhattisgarh Swami Vivekanand Technical University, Bhilai	0.65	2020
10	Electrical Engineering	Design & Implementation of a micro grid energy management system	Chhattisgarh Swami Vivekanand Technical University, Bhilai	1.80	2020
11	Electrical Engineering	Conditioning monitoring of power transformers using dissolved gas	Chhattisgarh Swami Vivekanand Technical University, Bhilai	1.50	2020
12	Electrical Engineering	Smart irrigation system using IoT	Chhattisgarh Swami Vivekanand Technical University, Bhilai	2.14	2020
13	Electrical Engineering	Design & Development of a cost effective phasor measurement unit for real time monitoring of smart power system	Chhattisgarh Swami Vivekanand Technical University, Bhilai	1.00	2020
14	Electrical Engineering	Line start permanent magnet motors for future electric vehicle	Chhattisgarh Swami Vivekanand Technical University, Bhilai	2.50	2020

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15	Electrical Engineering	Dual Capability Smart braille pad for blind person	Chhattisgarh Swami Vivekanand Technical University, Bhilai	1.50	2020
16	Electrical Engineering	Design & Development of cluster based smart agriculture system using machine learning & IoT	Chhattisgarh Swami Vivekanand Technical University, Bhilai	2.50	2020
17	Electrical Engineering	Implementation of laboratory scale micro grid incorporating renewable energy sources	Chhattisgarh Swami Vivekanand Technical University, Bhilai	4.95	2020
18	Electrical & Electronics Engineering	Key enabling technique for virtual private cloud computing for organization in Chhattisgarh	Chhattisgarh Swami Vivekanand Technical University, Bhilai	1	2020
19	Electronics & Telecommunication Engineering	Design and development of parallel frame work for measurement of heat distributioning metallic seeds	Chhattisgarh Swami Vivekanand Technical University, Bhilai	3.00	2020
20	Electronics & Telecommunication Engineering	Design and implementation of image retrieval system for trademark/logo image for registration	Chhattisgarh Swami Vivekanand Technical University, Bhilai	1.50	2019
21	Electronics & Telecommunication Engineering	2D nano structure based field effect Transistor as gas sensor. ab-initio modeling	Chhattisgarh Swami Vivekanand Technical University, Bhilai	1.50	2019
22	Electronics & Telecommunication Engineering	Measurement of leaf area and nitrogen contain of betal leaf using image processing technique	Chhattisgarh Swami Vivekanand Technical University, Bhilai	1.80	2019
23	Electronics & Telecommunication Engineering	Performance enhancement of microinverting solar PV power generation using passive filters	Chhattisgarh Swami Vivekanand Technical University, Bhilai	3.00	2019
24	Electronics & Telecommunication Engineering	Development of Low cost Single family Solar Cooker	Chhattisgarh Swami Vivekanand Technical University, Bhilai	2.25	2019
25	Information Technology	Opinion Mining of tourism sector of India using Machine Learning algorithm from reviews collected through social media	Chhattisgarh Swami Vivekanand Technical University, Bhilai	3.00	2019
26	Information Technology	To facilitate the sales of rural products and arts of Chhattisgarh through E-Commerce using Data Mining, Data Science and Soft Computing Techniques	Chhattisgarh Swami Vivekanand Technical University, Bhilai	1.20	2019
27	Information Technology	An ICT approach towards enhancing english speaking skills	Chhattisgarh Swami Vivekanand Technical University, Bhilai	1.50	2019

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28	Mechanical Engineering	Study the different low pressure acetylene generators using Chhattisgarh region	Chhattisgarh Swami Vivekanand Technical University, Bhilai	1.50	2019
29	Mechanical Engineering	Extraction of oil using pyrolysis reactor and its characterization	Chhattisgarh Swami Vivekanand Technical University, Bhilai	3.00	2019
30	Mechanical Engineering	A novel high entropy alloys with composite microstructures	Chhattisgarh Swami Vivekanand Technical University, Bhilai	2.00	2019
31	Mechanical Engineering	Synthesis and characterization of high entropy alloys	Chhattisgarh Swami Vivekanand Technical University, Bhilai	3.00	2019
32	Mechanical Engineering	Development and Characterization of Novel WNbMoTaTiSix (x = 0, 0.3, 0.6 and 0.9 atomic ratio) Refractory Hingh Entropy Allos for High Temperature Applications by Vacuum Arc Melting Route	AICTE- RPS Scheme	23.10	2019
33	Applied Physics	Mechanoluminescence and thermoluminescence studies of rare earth activated phosphors for display and mechanical sensors	Chhattisgarh Swami Vivekanand Technical University, Bhilai	2.00	2019
34	Applied Physics	A Novel approach to the synthesis of photosensitive non structure material their characterization for Utilization of solar energy in Chhattisgarh	Chhattisgarh Swami Vivekanand Technical University, Bhilai	2.00	2019
35	Applied Physics	Studies of luminescence properties of rare earth doped and co-doped phosphors	Chhattisgarh Swami Vivekanand Technical University, Bhilai	2.00	2019
36	Applied Physics	Development of low cost and high performance polymer gas sensor	Chhattisgarh Swami Vivekanand Technical University, Bhilai	2.00	2019
37	Applied Physics	Mechanoluminescence for crack detection in cementitious structure	Chhattisgarh Swami Vivekanand Technical University, Bhilai	2.50	2019
38	Mechanical Engineering	Modernization and Removal of Obsolescence Scheme (MODROB)	All India Council for Technical Eduction (AICTE)	10.35	2019
39	Applied Chemistry	Development of efficient biosorption technology for removing cadmium from industrial effluent	Chhattisgarh Swami Vivekanand Technical University, Bhilai	1.00	2019
40	Applied Chemistry	Health risk assessment and remediation technique for uranium contamination in ground water of Durg and near by District Chhattisgarh	Chhattisgarh Swami Vivekanand Technical University, Bhilai	2.00	2019
41	Master of Business Administration	Building Entrepreneurship Awareness	Entrepreneurship	0.40	2019

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42	Master of Business Administration	Avenues of Sustainable Tourism in Chhattisgarh	Chhattisgarh Swami Vivekanand Technical University, Bhilai	1.00	2019
43	Computer Science & Engineering	Erasmus+ European Union Project	Royal Academy of Engineering Uttrakhand	341.3	2018
44	Master of Business Administration	Entrepreneurial Skill Development for Rural Agro, Food Processing and Healthcare based Start-up	Entrepreneurial skills Development for Rural Agro Food Processing and Health care Based Start ups	2.50	2018
45	Mechanical Engineering	Margdarshan	All India Council for Technical Education (AICTE)	24.38	2018
46	Applied Chemistry	Towards improvisation of hybrid biomass by gelation technique for preparing an integrated de-fluoridation unit to alternative the contaminants from groundwater of fluoride affected area.	Chhattisgarh Council of Science and Technology, Raipur	4.14	2017
47	Applied Mathematics	Stability of oblate infinitesimal in the elliptic restricted three body problem with oblate radiating primaries.	Chhattisgarh Council of Science and Technology	4.28	2017
48	Master of Business Administration	Promotion of Start-up and Development of entrepreneurial Skill	Promotion of Start up and Development of Entrepreneurial skill	2.50	2017
49	Computer Applications	Development of a Meteorological Information System MetIS (A Case for Village of Bilaspur District Chhattisgarh)	Chhattisgarh Council of Science & Technology Raipur Chhattisgarh	4.990	2017
50	Applied Chemistry	Spatial Distribution of Uranium and associated water quality parameter in ground water of Durg and 5 Districts	Department of Atomic Energy Board of Research in Nuclear Science	33.00	2017
51	Applied Chemistry	Spatial Distribution of Uranium and associated water quality parameter in ground water of Northern Sarn Districts.	Department of Atomic Energy Board of Research in Nuclear Science	18.89	2017