

1. Research Grants

S.No	No. & Title of the project	Co-Ordinators	Research Grant	Funding Agency	Year of Sanction	Current Status
1.	DST/SHRIC/SHRI-13/2022: Digitizing and Preserving the Heritage of Sirpur for Future Generation.	Dr. Manu Vardhan	51,52,686/-	DST	2023	Ongoing (2026)
2.	MTR/2023/MATRICES/000016: Exploiting side information in neural collaborating filtering models for improving recommendation quality.	Dr. Dilip Singh Sisodia	60,00,00/-	SERB	2023	Ongoing (2026)
3.	CCOST/1769/CCOST/MRP/2024: Automated elephant tracking & early alert system for minimizing human-animal contact in chhattisgarh.	Dr. Dilip Singh Sisodia	4,71,000/-	CCOST	2024	Ongoing (2026)
4.	LP/10/MMG/RAC/2023-24: Artificial Intelligence Based AI Automated Intelligent Document processing Tool for Bio Data/Application Information Verification Against Candidate Entered Information In Database.	Dr. Dilip Singh Sisodia, Dr. Deepak Singh (Co-PI)	18,60,000/-	DRDO	2023	Ongoing (2024)
5.	CG/2023/SBC/363: V-App: A Dedicated Mobile/Web Application UNICEF supported volunteer programs.	Dr. Deepak singh, Dr. Govardhan Bhatt (Co-PI)	3,75,000/-	UNICEF	2023	Ongoing (2024)
6.	NITRR/Seed Grant/2024-25/01: Design and Development of AI-enabled Models for Analyzing EEG Signals and Classifying Schizophrenia.	Dr. Karnati Mohan	4,35,000/-	SEED (NITRR)	2024	Ongoing (2027)
7.	IIBH/IBITF/2024-25/0159: Blockchain Based Framework for Insurance Sector	Dr. Preeti Chandrakar	29,33,840/-	IBITF	2024	Ongoing (2027)
8.	NITRR/Seed Grant/2024-25/05: End-to-end Security and Performance Enhancement in Submarine Network	Dr. Madhukrishna Priyadarsini	4,99,500/-	SEED (NITRR)	2024	Ongoing (2027)
9.	NITRR/SeedGrant/2024-25/04 Contrast Enhancement Using the Stable DiffusionMethod for Low-light Images/Videos for the Wearable Devices of Army Personnel for the Night Vision Systems	Dr. Shailendra Kumar Tripathi	1,50,000/-	SEED (NITRR)	2024	Ongoing (2027)
10.	NITRR/Seed Grant/2024-25/03 Security, Privacy and Forensics Analysis of Next Generation Digital Devices	Dr. Nitesh K Bharadwaj	5,00,000/-	SEED (NITRR)	2024	Ongoing (2027)

11.	NITRR/Seed Grant/Dean(R&C)/2024/919 Blender 3D implementation on FPGA using POSIT number system	Dr. Sonal Yadav	5,00,000/-	SEED (NITRR)	2024	Ongoing (2027)
12	Price Forecasting of Hot Rolled Coil (HRC) Ex-Yard Prices in Mumbai via Machine Learning	Dr. Pradeep Singh (PI), Dr. Naresh K Nageani (Co-PI), Dr. Nitesh K Bharadwaj (Co-PI)	3,30,000/-	BigMint Technologies Pvt. Ltd. Raipur (CG)	2024	Ongoing (2025)
13.	IIT MANDI iHub/RD/2024-25/03: Path Rakshak (Guardian of the Road) - A System for Enhancing Public Transport Safety with Real-time Ambiance and Driver Monitoring	Dr. Karnati Mohan, Dr. Pradeep Singh	15,70,300/-	IIT Mandi iHub	2025	Ongoing (2027)
14.	No.1103/CCOST/MRP/2015: Modeling of autonomous software agents' behavior to defend HTTP request attacks.	Dr. Dilip Singh Sisodia	4,90,000/-	CCOST	2015	Completed (2020)
15.	No. 8057/CCOST/MRP/13: Predictive and Visual Analysis of the Price Distribution Information of Rice and Wheat Across India.	Prof. Shrish Verma, Prof. N. K. Nagwani, & Dr. Kesari Verma	4, 50,000/-	CCOST	2013	Completed (2017)
16.	NITRR/Rr/IT/2015/052 CCOST: Development of Framework For Web Based Intelligent Dictionary For Learning Chhattisgarhi Language.	Prof. P.K. Mishra, Prof. S. Pandey, & Prof. N.K. Nagwani	4, 00,000/-	CCOST	2015	Completed (2019)
17.	TEQIP letter of 18th June 2019: Epileptic seizure detection in EEGs Using Machine Learning techniques.	Prof. D.K. Prabhakar, Prof. P. Mahanto, Prof. R.R. Janghel, Prof. N.K. Nagwani, & Prof. S. P. Sahu	2, 30, 000/-	TEQIP Research Grant	2019	Completed (2021)
18.	NITRR/Seed Grant/2019-20/001: Design of Remote User Authentication Schemes for Different Application Areas Using Cryptographic Approach.	Dr. Preeti Chandrakar	5,00,000/-	SEED (NITRR)	2019	Completed (2022)
19.	Custom RISC V Instructions for GPGPU	Dr. Sonal Yadav	101520/-	VividSparks IT Solutions Pvt. Ltd.	2025	Ongoing (2027)

Abbreviations:

SERB: Science and Engineering Research Board, CCOST: Chhattisgarh Council of Science & Technology, SEED: Science for Equity Empowerment and Development Division, DST: Department of

2. Patent Details:

S.No.	Name of Inventor	Title of Patent	Patent No.	Organization	Award Date
1.	Arepalli Peda Gopi, Dr. K. Jairam Naik	Fish Pond Water Quality Monitoring Device	375537-001	The Patent Office, Government of India	2022
2.	Rajesh K Shukla, Dr. Dilip Singh Sisodia, Dr. Deepak Singh, Manish Maheshwari	Device for Tracking Endangered Animal	366791-001	The Patent Office, Government of India	2023
3.	Dr. Aakanksha Sharaff, Samson Anosh Babu Parisapogu, Supriya Agrahari, Md. Khaja Mohiddin	A Vehicle Anti-Theft System and A method Thereof,	AU 2021101396 A4	AUSTRALIAN PATENT OFFICE	2021
4.	Sharma, Abhishek Mishra, Devesh Nayyar, Anand Bagga, Jaspal Sharaff, Aakanksha Miri, Rohit Mohiddin, Md. Khaja Sharma, Suraj Pinjarkar, Latika Saritha, S. K.	Iot based gas leakage prevention system	AU2021101582 A4	AUSTRALIAN PATENT OFFICE	2021
5.	Chandra Srivastava, Sharad; Srivastava, Sumit; Sharaff, Aakanksha; Sharma, Suraj; Shrivastava, Akhilesh Kumar; Saritha, S. K.; Tandan, S. R.; Jain, Swati; Sinha, Upasana; Nayyar, Anand and Sharma, Abhishek,	Home automation based on user detection using internet of things	2021100439	AUSTRALIAN PATENT OFFICE	2021
6.	Manu Vardhan, Shubham Sharma, Amit Kumar	System for plant disease detection and method thereof	554484	The Patent Office, Government of India	2024

3. Distinction Earned by Faculty Members (National and International Awards, Professional Societies)

A. Dr. Pradeep Singh: Included in World's Top 2% Researchers and Influential Scientists 2023 & 2024, by Stanford University in the field of Artificial Intelligence & Image Processing - (The list was prepared by Scientists from Stanford University USA & Published by Elsevier)

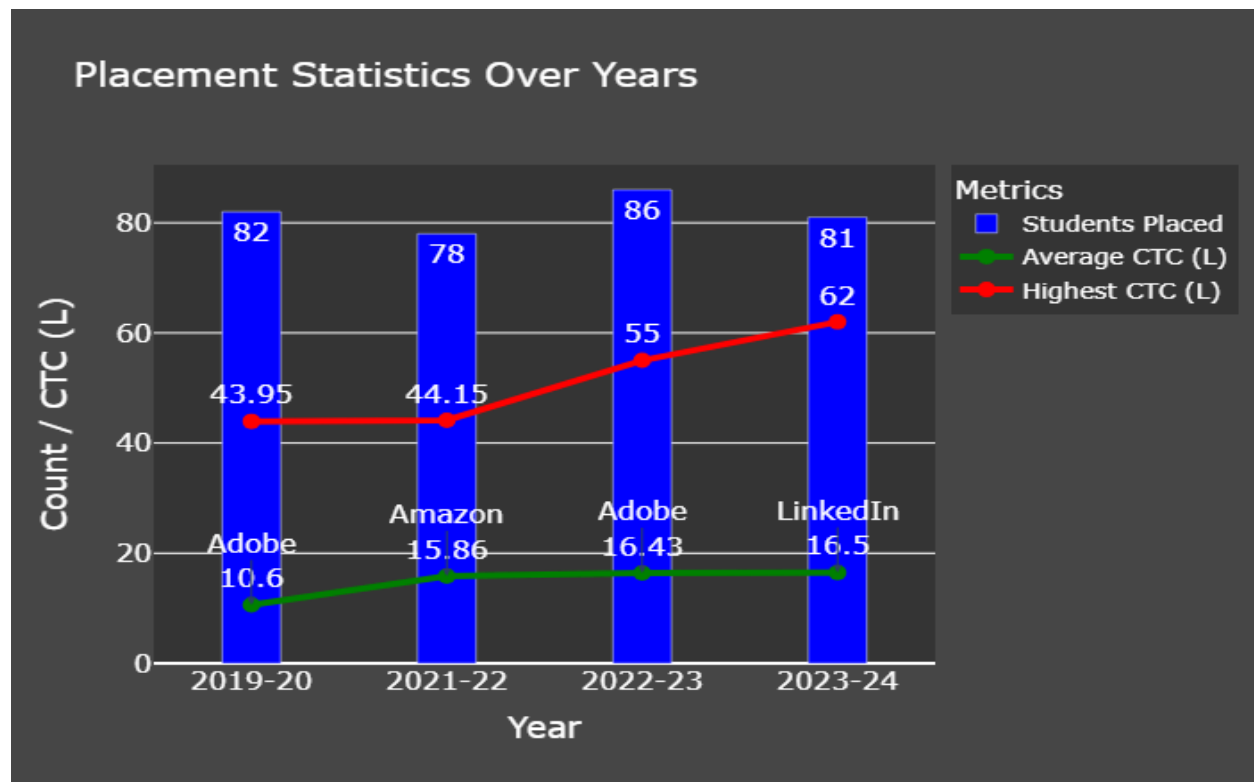
B. Dr. Dilip Singh Sisodia: Included in the World Ranking of Top 2% Scientists/researchers in 2024, 2023, 2022 (The list is prepared by Scientists from Stanford University USA & Published by Elsevier) and also obtained Best faculty award 2023 at NITRR, Best researcher award 2024 at NITRR.

4. Best Paper Awards

S.No.	Author names	Paper Title	Organization	Date
1.	Deepti Sisodia, Dilip Singh Sisodia and Deepak Singh.	Evaluating Feature Importance to Investigate Publishers Conduct for Detecting Click Fraud	In Proceedings of 4th International Conference on Machine Intelligence and Signal Processing (MISP202), Lecture Notes in Electrical Engineering	March 12-14, 2022
2.	Rahul Shrivastava, D. S. Sisodia, N. K. Nagwani	On Diverse and Serendipitous Item Recommendation: A Reinforced Similarity and Multi-Objective Optimization-based Composite Recommendation Framework	In Proceedings of 4th International Conference on Machine Intelligence and Signal Processing (MISP202), Lecture Notes in Electrical Engineering	March 12-14, 2022
3.	Sapna Singh Kshatri, Deepak Singh Dilip Singh, Sisodia	Multiple aggregation model using Ensembles Classifier for feature selection: A Homogeneous Approach	In Proceedings of IEEE International Conference on Technology, Research and Innovation for Betterment of Society (TRIBES-2021)	December 17 - 19, 2021
4.	Rikhi Ram Jagat, Dilip Singh Sisodia, Pradeep Singh	Semi-Supervised Self-Training Approach for Web Robots' Activity Detection in Weblog	In proceedings of International Conference on Evolutionary Computing and Mobile Sustainable Networks (ICEMSN 2021), Lecture Notes in Data Engineering and Communications Technologies	September 28-29, 2021

5.	Aakanksha Sharaff, Kshitij Surendra Ukey, Rajkumar Choure, Arham Couradiya and G. R. Sinha	Automatic dimension detection of fish images: Data Driven Approach Towards Disruptive Technologies	Proceedings of International Conference on Machine Intelligence and Data Science Applications MIDAS	2020
6.	Aakanksha Sharaff and Ashutosh Kumar	Performance enhancement of gene mention tagging using deep learning and biomedical named entity recognition	In Frontiers of Intelligent Computing: Theory and Applications (FICTA 2020)	2020
7.	Aakanksha Sharaff and Bharati Patel	Biological management of rice crop by using contour based masking technique	In 2020 First International Conference on Power, Control and Computing Technologies (ICPC2T) (pp. 267-272). IEEE	2020
8.	Peda Gopi Arepalli, Jairam Naik K, Jitendra Kumar Rout	Aquaculture Water Quality Classification with Sparse Attention Transformers: Leveraging Water and Environmental Parameters	ACM--2024 13th International Conference on Software and Computer Applications (ICSCA 2024), Bali Island, Indonesia	2024
9.	Aakanksha Sharaff, Rakhi Seth, Samuel Robin Roy, and Mahendra Kumar Sahu	Predicting Climate Temperature using Hybrid Models.	International Conference on Interdisciplinary Horizons: Integrating AI in Science, Management, and Technology ICON-AI-SMT'25. Springer 2025	2025
10.	Shubham Sharma, Manu Vardhan	Enhancing Plant Pathology with CNNs: A Hierarchical Approach for Accurate Disease Identification	ACM-2024 13th International Conference on Software and Computer Applications (ICSCA 2024), Bali Island, Indonesia	February 1-3, 2024

5. Campus Placement Status



6. Publication Status

Publication status of last five years by CSE department affiliated with NITRR

