



RESEARCH AND DEVELOPMENT CELL
COER UNIVERSITY
LIST OF RESEARCH PROJECTS AWARDED

Sr. No.	Title	Funding Agency	Date of sanction	
01	Understanding the correlation between the weaving dust and its impact on the health of the handloom workers: Health Risks and Foundation for Mitigation	Ministry of Textiles	29-10-2024	Rs. 29,85,600
02	A Data Assimilated Framework for Early Crack Detection in Railway Tracks Using IR Thermography	Dedicated Freight Corridor Corporation of India Ltd	15-04-2025	Rs. 3,23,83,280

LIST OF RESEARCH PROJECTS SUBMITTED TO GOVT. AGENCIES

S. No.	Project Title	Funding Agency	Estimated Cost
1.	Weaving A Healthier Future: An Ergonomic Chair to Enhance Weaver's Wellbeing and Productivity.	Ministry of Textiles	54,71,400
2.	Development of Algorithms and Mobile Application for Distinguishing Handloom and Power Loom Products.	Ministry of Textiles	83,56,800
3.	An AI-assisted system for driver training and continuous health monitoring in Semi-Automatic Driving for Defense Person	DRDO	1,49,57,428
4.	Heat Transfer Enhancement by Using Amalgamation of Roughness Geometries in solar Air Heater	Science & Engineering Research Board (SERB)	44,03,000
5.	Location And Weather-Based Prediction for Agricultural Yield for District Haridwar	Science & Engineering Research Board (SERB)	35,53,000
6.	Performance Investigation and Optimization of Hybrid Solar System (Solar Dryer and Solar Still) With Artificial Neural Network Approach	Science & Engineering Research Board (SERB)	23,88,000
7.	A Solar Air Dryer Optimization Using CFD Simulation, Artificial Neural Network and Metaheuristic Optimization Model	Ministry of New and Renewable Energy (MNRE)	24,70,000


Registrar
COER University
Roorkee



8.	Monitoring Crop & Soil Health to Increase Productivity Using Emerging Technology – (49337)	Department of Biotechnology (DBT)	72,79,000
9.	Waste Water Distillation Through Stepped Solar Still with Dimple Shape as Roughness Geometry	Uttarakhand Science Education and Research Center (USERC)	4,85,000
10.	Community Development Programme	Uttarakhand Science Education and Research Center (USERC)	1,07,000
11.	"Revolutionize Uttarakhand's Agriculture: Harnessing Machine Learning for Sustainable Farming"	Uttarakhand Science Education and Research Center (USERC)	3,60,000
12.	An Intelligent Tutoring System for the children of sex workers	National Commission for Women (NCW)	18,70,000
13.	"I Know What you are Going Through", Depression Detection in Women	National Commission for Women (NCW)	11,50,000
14.	Artificial Intelligence based Optical Fiber Sensing for monitoring the Industrial Pollutants in Ganga River to Haridwar	Uttarakhand State Council for Science & Technology (UCOST)	8,28,000
15.	Development of Artificial intelligence (AI) Based Vehicles Counting to Solve Traffic Problem in the State of Uttarakhand		12,00,000
16.	A Project entitled location and weather-based prediction for agriculture yield for district Haridwar		11,98,000
17.	Life Cycle Analysis of Buildings in Uttarakhand		6,80,000
18.	Forest Fire Detection in Uttarakhand State using Predictive Analysis		6,00,000
19.	Artificial Intelligence Techniques for Geographical Landslide Prediction and Detection in Northern India's Mountainous Regions		6,20,000
20.	Combination of AI and Blockchain Technology in Supply Chain Management in Agriculture		5,25,000
21.	An Intelligent Farming System (IFS) for Agriculture Difficulties at High Altitude/Mountain Regions		4,90,700
22.	Revolutionizing Uttarakhand's Agriculture: Harnessing Machine Learning for Sustainable Farming		9,30,000
23.	Development of a Smart Medication System Utilizing Drones for Plant Disease		11,60,000
24.	Impact of Climate Change on Water Resources in Uttarakhand		6,60,000
25.	Cultivation of Saffron (<i>Kesar-Crocus sativus</i> L. Kashmirianus) under controlled environment and its comparative analytical study with the		11,95,000



	commercially available Saffron (Kesar)		
26.	Design and development of algorithm for solar power integration in distribution network for rural areas of Uttarakhand		3,72,000
27.	Application of solar air heater for space heating during winter season in Uttarakhand using phase change material		7,62,300
28.	Seismic Performance of Uttarakhand Hill-Slope Buildings Subjected to Pulse Type Ground Motion		7,94,000
29.	Performance Investigation of Hybrid Solar System (Solae Dryer and Solar Still) With Artificial Neural Network Approach for Uttarakhand		9,72,500
30.	Waste water Distillation Through Stepped Solar Still with Dimple Shape as Roughness Geometry		8,32,000
31.	Indian Diaspora Galaxy of World's Economy and Cultural Dichotomy	ICSSR	30,00,000
32.	Sustainable tourism development and community development through forest bathing in Kimsar Village, Uttarakhand	ICSSR	80,00,000
33.	The Impact of Industry 4.0 on Indian SMEs and Emerging Technologies	ICSSR	80,00,000
34.	Breaking Down Barriers to Women's Employment	ICSSR	30,00,000

 Registrar
COER University
Roorkee