Evidence against indicator 17.2.5

17.2.5	Collaboration with NGOs for SDGs Collaborate with NGOs to tackle the SDGs through: student volunteering programmes, research programmes, or development of educational resources		
	student volunteering programmes	Yes	
	research programmes	Yes	Yes
	development of educational resources	Yes	

The NCC cadets perform a few activities that support the achievement of the SDGs: for instance, blood donation camp, tree plantation drive, conservation of water and water harvesting, waste management, cleanliness of water bodies, Social Service and Community Development, etc.

https://www.juit.ac.in/ncc-events





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The Research on The Field of Sustainable Devlopmet Goals in JUIT

The University departments are involved in the field of sustainable energy and applications . Primiraly the department of Biotechnology, Civil Engioneering and Physics and Materials Science are involved in the work.

The research details can be accessed at the following links

https://www.juit.ac.in/biotechnology-and-bioinformatics-rd

https://www.juit.ac.in/research-and-development-ce

https://www.juit.ac.in/physics-and-materials-science-projects

<u>Details of PhD Thesis awarded by University in the field of sustainable energy and</u> applications

Name	Enrollment No.	Department	Title		
SARITA	126903	PMS	"SYNTHESIS OF MAGNETITE NANOPARTICLES ON SUBSTRATE FOR WATER PURIFICATION"		
BANDNA BHARTI	136951	PMS	SURFACE MODIFICATION OF TITANIUM DIOXIDE (TiO2) THIN FILMS AND THEIR APPLICATIONS		
ANKUR CHOUDHARY	176605	CE	BIOGAS PRODUCTION FOR SUSTAINABLE ENERGY GENERATION IN RURAL HIMACHAL PRADESH USING ONE STAGE PORTABLE DIGESTER		
KANCHAN KUMARI	176901	PMS	EFFECT OF MAGNETIC FIELD ON THE GROWTH OF CoFe2O4 AND NiFe2O4 FILMS.		
PANKAJ SHARMA	176606	CE	BEHAVIOR OF HELICAL SOIL NAILS: AN EXPERIMENTAL AND THEORETICAL STUDY		
PRACHI VASISTHA	186605	CE	WATER QUALITY DETERMINATION AND MODELLING OF NATURAL LAKES		
NIRAJ SINGH PARIHAR 166607 CE		CE	STABILIZATION OF EXPANSIVE SOIL USING LEATHER INDUSTRY WASTE ASH		





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SUDHEER KUMAR JALA	186602	СЕ	PERFORMANCE OF HIGH CONFINED STONE COLUMNS IN POND ASH FILLS: AN EXPERIMENTAL AND NUMERICAL STUDY
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17.2.5 Educational Resources

Publications

- 1. Anchal Sharma, Rajiv Ganguly, Ashok Kumar Gupta (2023). Life cycle assessment of municipal solid waste generated from hilly cities in India: a case study. Heliyon, 9 (11), pp. e21575- e21575, DOI: https://doi.org/10.1016/j.heliyon.2023.e21575 [SCOPUS, SCI, UGC Care]. https://www.juit.ac.in/faculty.php?id=143&dep=civil&page=0&year1=2023
- Saurabh Rawat, Ashok Kumar Gupta, Pankaj Sharma (2023). Sustainable remediation of failed slope using helical soil nails. Journal of Mountain Science, 20 (), pp. 1742-1758, DOI: https://doi.org/10.1007/s11629-023-7913-0 [SCOPUS , SCI , UGC Care]. https://www.juit.ac.in/faculty.php?id=143&dep=civil&page=0&year1=2023
- 3. Rishi Rana, Rajiv Ganguly, Ashok Kumar Gupta (2023). Toxicity analysis and behavior of nano-particles in leachate from non-engineered landfill sites of Chandigarh, Mohali, and Panchkula cities-Tricity. Nanotechnology for Environmental Engineering, Online (2023), pp. 1-12, DOI: https://doi.org/10.1007/s41204-023-00322-z [SCOPUS, UGC Care]. https://www.juit.ac.in/faculty.php?id=143&dep=civil&page=0&year1=2023
- 4. Preetpal Singh, Amardeep Boora, Ashok Kumar Gupta (2023). Effect of Industrial Waste and Polyester Fiber on Geotechnical Characteristics of Local Clay. IOP Conference Series: Earth and Environmental Science, 1110 (2023), pp. 1-8, DOI: 10.1088/1755-1315/1110/1/012043 [SCOPUS]

 https://www.juit.ac.in/faculty.php?id=143&dep=civil&page=0&year1=2023
- 5. Preetpal Singh, Amardeep Boora, Ashok Kumar Gupta (2023). A Review on Utilizing Municipal Solid Waste Incineration (MSWIA) in Construction Activates. IOP Conference Series: Earth and Environmental Science, 1110 (2023), pp. 1-7, DOI: 10.1088/1755-1315/1110/1/012042 [SCOPUS]. https://www.juit.ac.in/faculty.php?id=143&dep=civil&page=0&year1=2023
- 6. Rishi Rana, Anshul Kalia, Amardeep Boora, Faisal M. Alfaisal, Raied Saad Alharbi, Parveen Berwal, Shamshad Alam, Mohammad Amir Khan, Obaid Qamar (2023). Artificial Intelligence for Surface Water Quality Evaluation, Monitoring and Assessment. Water, 15 (22), pp. 1-12, DOI: https://doi.org/10.3390/w15223919[SCOPUS]. https://www.juit.ac.in/faculty.php?id=397&dep=civil&page=0&year1=2023
- 7. Amardeep Boora, Kavita Rani, Manju Suthar, Rishi Rana, Parveen Berwal, Abdullah Faiz Saeed Al Asmari, Mohammad Amir khan, Saiful Islam (2023). Slag and Bagasse Ash: Potential Binders for Sustainable Rigid Pavement. ACS Omega, 8 (36), pp. 32867-32876, DOI: 10.1021/acsomega.3c04089[SCOPUS,SCI,UGCCare] https://www.juit.ac.in/faculty.php?id=397&dep=civil&page=0&year1=2023

Patents (https://www.juit.ac.in/research-and-development-ce)

S.No	Patent No. and Date of Grant	Application No.	Title	Department and Inventors
1.	Granted: 12.01.23	124895/319983- 001 CBR No.: 14079	Movable Biogas Reactor	Civil Engineering; Biotechnology & Bioinformatics Inventors Mr Karam Dass, Ankur Choudhary, Dr. Ashish Kumar, Dr. Sudhir Kumar
2.	Published: 26.05.2023	202311029769	Use of waste plastic glass as an anti – glare component to avoid road accidents	Civil Engineering, CSE, ECE and BT/BI Inventors Archit Kaushal, Shruti Jain, Sudhir Kumar, Aman Sharma, Saurabh Rawat

$\textbf{Research Projects/Grants} \ (\underline{\text{https://www.juit.ac.in/research-and-development-ce}})$

S. No.	Project	Title of Project	Funding Agency	Duration	Grant (in
	Coordinator/				Lakhs)
	Principal				
	Investigator(s)				
1.	Dr. Sudhir Kumar	Pine Needles	Directorate of	2022-24	7.0
	(PI)	conversion to Biofuels	Innovation,		
	Dr. Ashish Kumar	for Rural	Research and		
	(Co-PI)	Empowerment	Development		
			(DRID)		
2.	Dr. Sudhir Kumar (PI) Dr Garlapati Vijay Kumar (Co-PI) Dr. Ashish Kumar (Co-PI)	Production and Phyco- upgradation of Biogas from pine straw co- digested with food waste.	Directorate of Innovation, Research and Development (DRID)	2023- ongoing	0.5
3.	Akash Bhardwaj	Exploration Of Ground Water Potential Zones For Shimla District Using Remote Sensing And Geographic Information System	Directorate of Innovation, Research and Development (DRID)	2023-2024	0.09

B.Tech Projects

S.No	Title	Name of Students	Name of Supervisor
1.	Utilization of waste material in	Suksham Sharma	Dr. Rishi Rana
	construction		
2.	Sustainable Treatment of Industrial	Shubham Sharma, Ayush	Prof. Ashok Kr.
	waste water and reuse it for	Thakur, Naman	Gupta and Mr. Akash
	agricultural purposes	Bhardwaj	Bhardwaj
3.	Efficacy of IoT in Sewage Treatment	Harish Singh Kanwar,	Prof. Ashish Kumar
	Plant	Avinash	and Dr. Rishi Rana
4.	Artificial Intelligence for surface	Ujjwal Sharma, Manan	Dr. Rishi Rana
	water quality monitoring	Sharma	
5.	Utilization of Plastic Waste in	Lakshay Sharma	Mr. Chandrapal
	Manufacturing of Bricks		Gautam
6.	Assessement and analysis of H2	Devendra Ahlay, Pem	Mr. Akash Bhardwaj
	Buiding of JUIT for Green features	Dorji	and Mr. Niraj Singh
			Parihar