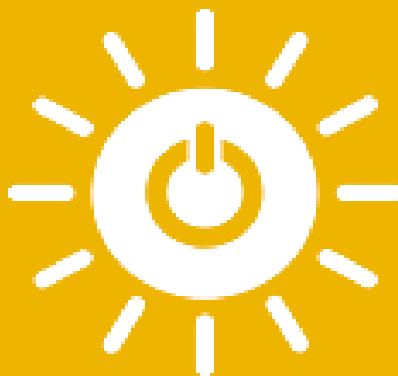




7 AFFORDABLE AND CLEAN ENERGY



7.2 University Measures Towards Affordable and Clean Energy

Affordable and clean energy is one of the top priorities at Sharda University. Our commitment is reflected in our teaching and research on clean and alternative energy sources. On campus, the University has made significant progress towards environmental sustainability through clean energy projects, waste management practices, energy conservation initiatives, and collaborations with stakeholders to positively impact the broader community. By focusing on sustainable, affordable, and clean energy, we address the urgent need to combat climate change and manage the world's increasing energy demands. Energy research remains one of our core priorities, and through our educational and research efforts, with external stakeholders, we are advancing forward-thinking approaches to clean energy.

7.2.1 Energy-Efficient Renovation and Building

Have a policy in place for ensuring all renovations or new builds are following energy efficiency standards

Response: Newly constructed buildings are energy efficient and GRIHA Compliant

Sharda University has implemented standards and practices in the construction of its new buildings to ensure they are energy-efficient and sustainable, significantly reducing carbon footprint by supporting clean energy initiatives. The Indian Green Building Council (IGBC) developed the GRIHA (Green Rating for Integrated Habitat Assessment) system to evaluate the environmental performance of buildings across India. This system seeks to promote the design and construction of buildings using sustainable and energy-efficient methods. Sharda University's newly constructed building is GRIHA-certified, which indicates that it incorporates sustainable features and follows environmentally responsible practices. GRIHA emphasizes several key elements in its assessment. To minimize energy consumption, the building should incorporate energy-efficient technologies such as insulation, solar panels, and energy-saving lighting systems. Water usage can be reduced, and water resources can be managed more effectively by installing wastewater treatment plant, rainwater harvesting systems, and water-efficient fixtures. When planning and selecting the building's site, special attention should be given to accessibility to public transit, waste management systems, and green spaces, all of which help reduce pollution and create a healthier environment. The choice of building materials should consider the life cycle impact, prioritizing low-carbon, sustainable resources and minimizing waste production. Additionally, the building should ensure

excellent thermal comfort, natural lighting, and indoor air quality to provide a healthy and comfortable environment for occupants. GRIHA-certified university buildings incorporate these principles to create healthier spaces for staff and students, reduce their environmental impact, and



promote sustainable development.

Fig.1: Griha Certified Building

7.2.2 Upgrade Buildings to Higher Energy Efficiency

Have plans to upgrade existing buildings to higher energy efficiency

Response: The existing University building is highly energy efficient.

The university buildings are certified by IGBC1 and LEED2, and measures have been implemented to enhance energy efficiency. These include installation of solar panels, energy-efficient lighting in new constructions, lean occupancy sensors in restrooms, and the review, analysis, and renovation of laboratories for operational safety and environmental protection. Additionally, efforts are being made to compute carbon footprints and launch initiatives aimed at achieving carbon neutrality. To refine our energy consumption analysis and conservation strategy, we continuously assess our energy usage to identify areas for improvement. By adopting energy-efficient practices in campus operations, we optimize and use energy more wisely. We are committed to advancing clean and green energy initiatives. Strategic efforts have been initiated to transition to "clean power" and reduce dependence on "fossil fuels." Selected hostels now feature solar water heaters, and a 430 kWp solar power plant

has been installed to shift from relying solely on captive power to solar energy.

<https://acrobat.adobe.com/id/urn:aaid:sc:AP:e84e3605-8c8c-4292-9109-c594ca473c56>



Fig.2: LED based light and fans in campus

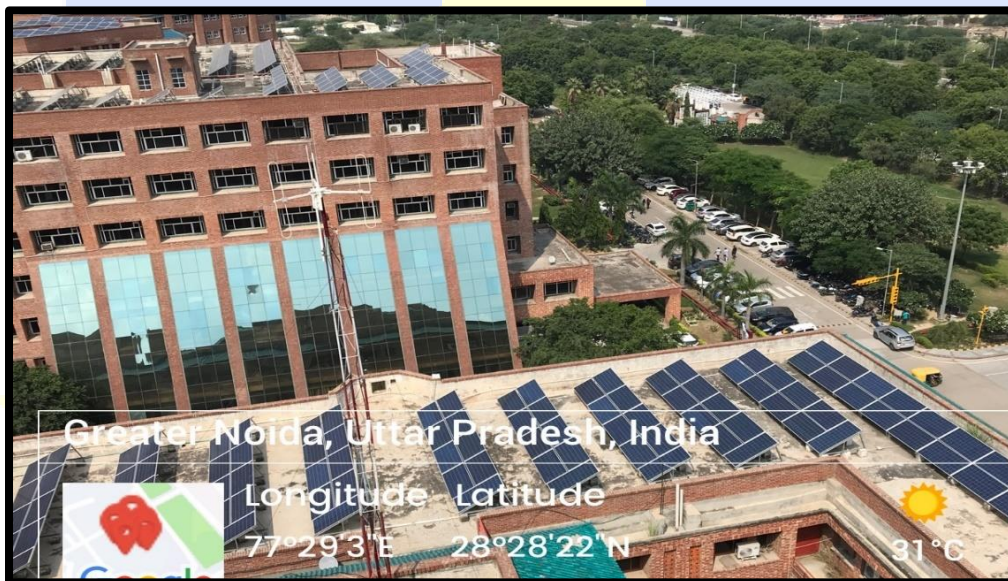


Fig.3: Solar system in university campus

University Location wise energy consumptions are given below:

Sl No.	Location/ Identification	Ceiling Fan-70W	BLDC Fan 28W
1	MANDELA HOSTEL BOYS	623	REPLACED BLDC FAN APPROX 125 198 + 20 = 218
2	MANDELA HOSTEL GIRLS	511	
3	JAWAHAR HOSTEL	135	
4	VIVEKANAND HOSTEL	203	
5	TAGORE HOSTEL	205	
6	PG HOSTEL	302	
7	SAROJINI HOSTEL	240	
8	KASTURBA HOSTEL	250	
9	MOTHER TERESA	99	
10	INDIRA HOSTEL	460	
11	BLOCK 1	340	
12	BLOCK 2	345	
13	BLOCK 3	460	
14	BLOCK 4	190	
15	PGDM	523	
16	DENTAL COLLEGE	699	

Summary of Sensor Details				
S.NO.	Location	LED light Load in Watt	exhaust Fan Load in Watt	No. of sensor
1	SDS(Dental) Block-21	504	1680	39
2	Block 1	432	1440	24
3	Block 2	558	1020	31
4	Block 3	504	1200	24
5	Block 4	2520	1800	26
6	PGDM	10944	1680	27
7	SMSR	4464	2400	65
8	Student Activity Center			173
Total Nos of Sensors				409
Total Load in Watt		19926	11220	

Summary of sensor in Sharda Hospital				
Location	LED light Load in Watt	CFL light Load in Watt	exhaust Fan Load in Watt	No. of sensor
F-Block	760	600	6000	50
E-Block	1064	840	8600	29
F-Block (Blood Bank)	576	48	1200	21
D-Block	396	132	1000	10
A-Block	14256	2376	12000	10
B-Block	252	216	800	8
Total Nos of Sensors				128
Total Load in Watt	17304	4212	29600	

Dental Assest List												
Sl. No.	Louction	Led light 36 watt Rod	Wall fan	Led light 18 watt	Tube light 36 watt	PVC Exhaust fan 250 mm	GI Exhaust fan 300 mm	Ceiling fan	BLDC Ceiling fan	For ceiling light	PVC Exhaust fan 150 mm	GI Exhaust fan 150 mm
Ground floor												
1	Reception area G/F	12 Nos	3 Nos					2 Nos				
2	Corridor G/F							1 Nos		28 Nos		
2	Washroom G/F			6 Nos			4 Nos					
3	Admin office G/F		5 Nos	4 Nos	4 Nos	2 Nos		4 Nos	18 Nos	36 Nos		
4	Cal. center G/F		10 Nos	2 Nos	1 Nos		1 Nos	2 Nos		12 Nos		
5	Room no 005 G/F		7 Nos								1 Nos	
6	Sharda tech G/F	22 Nos										
7	Radiology section G/F			17 Nos		3 Nos		2 Nos	8 Nos			
8	Oral medication radiology			58 Nos		4 Nos		1 Nos	23 Nos		1 Nos	
9	Room no 009 G/F	4 Nos		9 Nos				11 Nos				
10	lecture hall 01 G/F			17 Nos				11 Nos	1 Nos			
1st floor												
11	Room no 03		1 Nos	57 Nos	17 Nos	3 Nos		53 Nos	3 Nos			3 Nos
12	lecture hall 02	2 Nos		12 Nos				12 Nos				
13	PCB lab			23 Nos		6 Nos		20 Nos				
14	Male/ female washroom			5 Nos			3 Nos					1 Nos
15	Data center		5 Nos			1 Nos				20 Nos		
16	Corridor			14 Nos	16 Nos							
2nd floor												
17	2nd floor			14 Nos				7 Nos				
18	faculty room		1 Nos	8 Nos	6 Nos			7 Nos				
19	Room 004			3 Nos	29 Nos	4 Nos		29 Nos	1 Nos			
20	Community contact cell			2 Nos		1 Nos		1 Nos				
21	Lecture hall 03	13 Nos		3 Nos				12 Nos				
22	washroom male/ female				4 Nos		4 Nos					
23	Room 05	34 Nos		22 Nos	17 Nos	7 Nos		45 Nos	6 Nos			

24	Faculty room	1 Nos		6 Nos	6 Nos			8 Nos				
25	Corridor	24 Nos		15 Nos								
3rd floor												
26	Room no 26	3 Nos		5 Nos	14 Nos	2 Nos		25 Nos	1 Nos	1 Nos		
27	IT room			3 Nos	3 Nos			1 Nos	1 Nos			
28	Faculty room	4 Nos		3 Nos	4 Nos			17 Nos				
29	Health & fitness			4 Nos	6 Nos			10 Nos				
30	Lecture hall no 05	2 Nos		6 Nos	8 Nos			12 Nos				
31	washroom male/ female	1 Nos		5 Nos		2 Nos						
32	Periodontology	17 Nos		25 Nos	11 Nos	10 Nos		45 Nos	1 Nos			
33	Corridor	4 Nos		34 Nos								
34	Faculty room 07	8 Nos		1 Nos	4 Nos			6 Nos	1 Nos			
4th floor												
35	Room 08	15 Nos		6 Nos	30 Nos	1 Nos		23 Nos	1 Nos			
36	Faculty room	3 Nos			11 Nos			10 Nos				
37	Lecture hall 06	16 Nos						11 Nos				
38	Room no 09	30 Nos		19 Nos	11 Nos							
39	Corridor 4th floor	34 Nos		37 Nos								
40	canteen			18 Nos				1 Nos			1 Nos	
5th floor												
42	Digital marketing		7 Nos	1 Nos				1 Nos		15 Nos	1 Nos	
43	Tri clinical lab	2 Nos		2 Nos	38 Nos	6 Nos		1 Nos		22 Nos		
44	UP: Room 5th floor				1 Nos			1 Nos				
45	Room no 506	3 Nos						1 Nos				
46	Blood test room no 10	4 Nos	9 Nos	32 Nos		4 Nos		65 Nos		21 Nos		
47	Room no 508							4 Nos		5 Nos		
48	Corridor	4 Nos		32 Nos								
6th floor												
49	boys locker room							2 Nos		2 Nos		
50	Girls locker room							6 Nos		2 Nos		
51	Corridor	3 Nos		14 Nos								
52	Washroom			2 Nos				2 Nos				
53	Boys common room	7 Nos	1 Nos							2 Nos	3 Nos	
7th floor												
54	Girls common room	10 Nos							4 Nos	2 Nos		
55	Library	59 Nos	3 Nos	2 Nos	12 Nos				37 Nos		5 Nos	
56	Daycare	2 Nos		1 Nos	3 Nos	3 Nos	1 Nos	16 Nos	1 Nos	30 Nos		



Fig.4: Detection and Prevention of Carbon emission in local area.

7.2.3 Carbon reduction and emission reduction process

Have a process for carbon management and reducing carbon dioxide emissions.

Response: Ecofriendly vehicles are promoting to carbon management.

To promote carbon reduction and decrease carbon-dioxide emissions, Sharda University has initiated several green campus projects. These initiatives focus on energy conservation, waste management, energy-efficient building construction, and the promotion of eco-friendly transportation options. Campaigns have also been launched to educate students and the broader community about the significance of clean energy. These programs aim to raise awareness, encourage behavioral changes, and foster adoption of clean energy practices across society.

Sharda University has taken initiative to develop innovative solutions for detecting and preventing carbon emissions, both on campus and in its vicinity. A biogas power plant has been installed to support undergraduate and postgraduate students in studying and utilizing renewable energy. Located behind Mandela Hostel, the 15-cubic-meter biogas plant processes approximately 100-300 kilograms of food waste daily, sourced from mess canteens, mixed with a cow dung water mixture as raw material. This material takes 3-4 days to produce biogas, which is then used to generate approximately 4 KVA of electric energy. This process effectively transforms food waste into a valuable energy resource. The link provides the MOU with Uttar Pradesh Govt. to promote carbon free environment:



Fig.7: Promote Green Area and Plantation to Reduce Carbon dioxide



Fig.8: Eco-Friendly Green Practices in Sharda Campus



Fig.9: Plastics uses reduced for Green Practices in Sharda Campus



Fig.10: Battery operated cart in Sharda Campus for carbon reduction



Fig.11: Eco-Friendly Transport Facility for Carbon Reduction

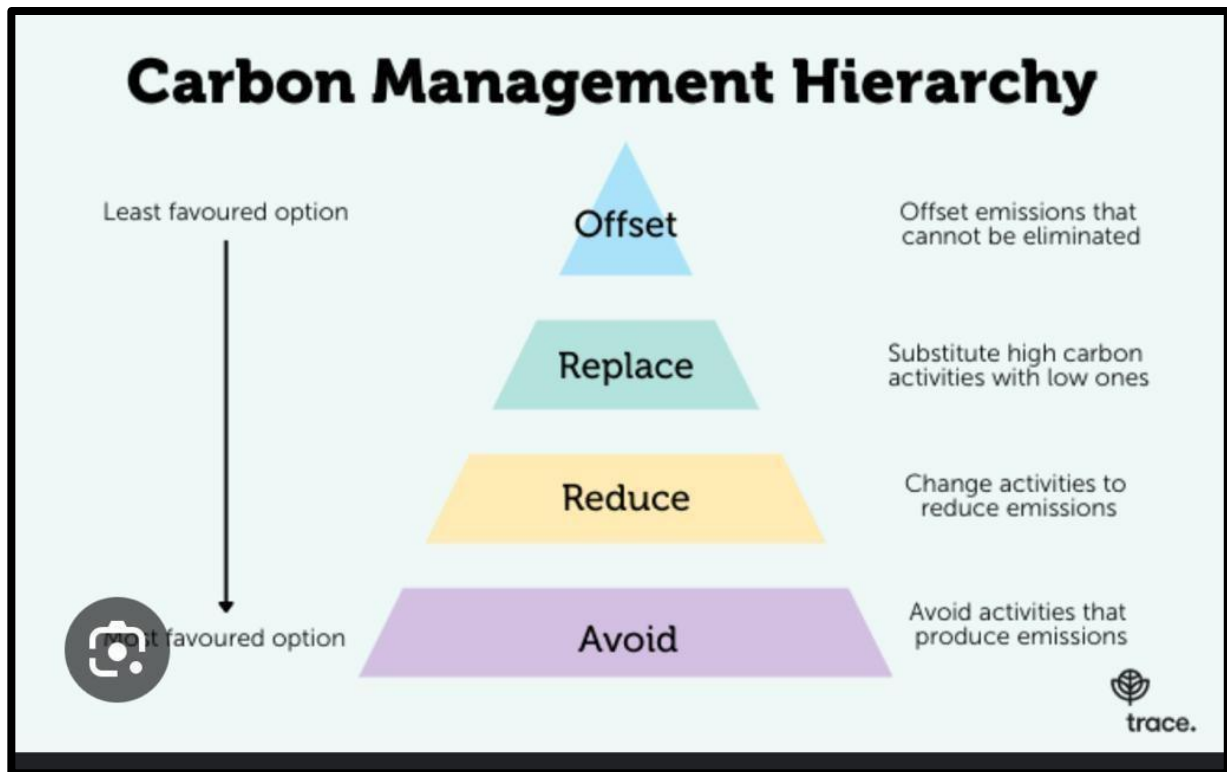


Fig.12: Carbon Management Programme organised by Sharda University (<https://acrobat.adobe.com/id/urn:aaid:sc:AP:4bacfb1f-3842-42a0-8d36-b81b0a7f0172>)

A biogas power plant is installed to facilitate undergraduate and post graduate students in the study and usage of renewable energy. The 15 cubic meter biogas plant is set up behind Mandela Hostel. Food waste of 100- 300 kgs approx per day drawn from Mess canteens and added with cow dung water mixture is used as raw material. The raw material content takes 3-4 days for biogas formation which is used to regenerate approx. 4KVA electric energy. Thus, food waste is converted into a resource and creating value in the form of electric power generation. The plant is utilizing the recent technology to generate the efficient energy.





Fig.13: Biogas Plant near Block 7 (Sharda University)



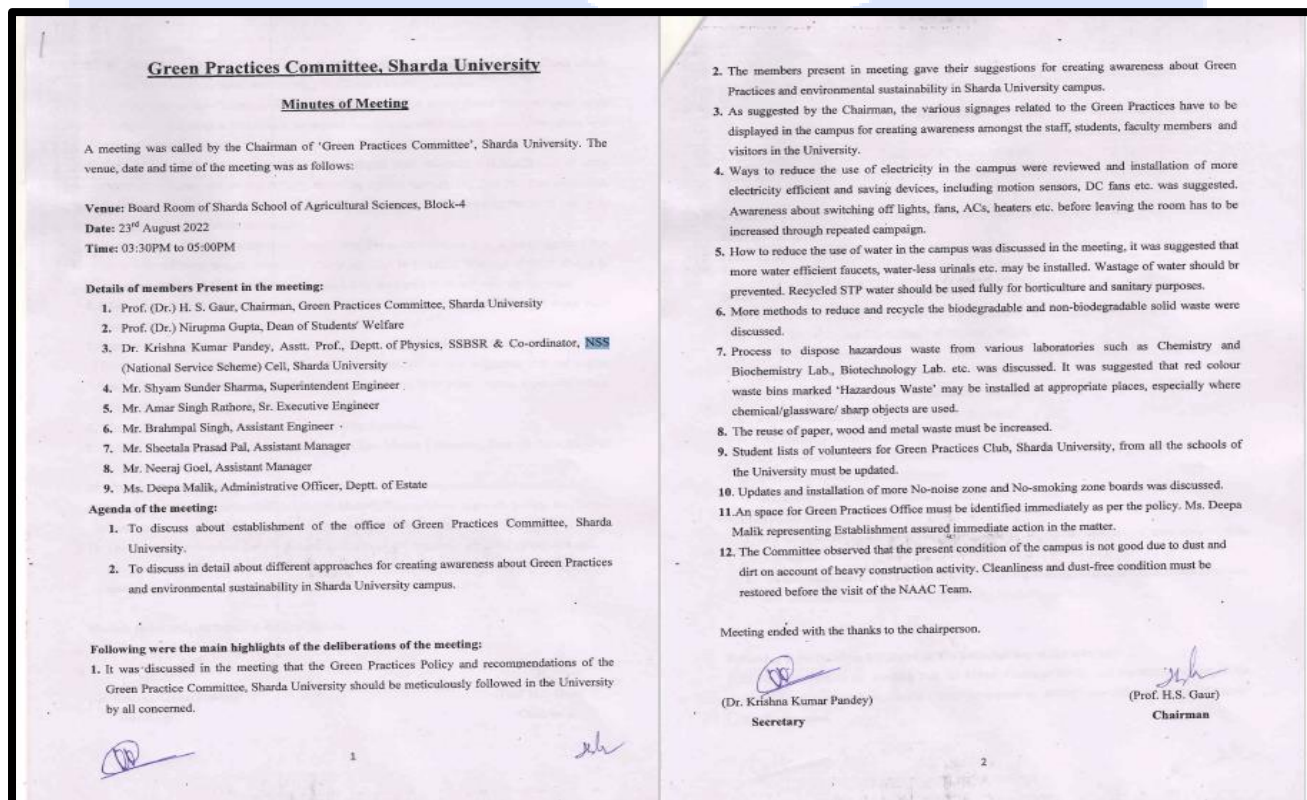
Fig.14: Solar street light in Sharda Campus

7.2.4 Plan to Reduce Energy Consumption

Have an energy efficiency plan in place to reduce overall energy consumption.

Response: University initiatives for renewable energy and conservation of energy

Sharda University is continuously advancing its green campus initiatives by actively involving all stakeholders, particularly students and staff. A variety of measures are being implemented to maintain a clean and eco-friendly campus. Sharda University have a Green Practices Committee for regular monitoring with a view of ensuring optimum utilization of energy consumption.



Recently a green audit was conducted, leading to the initiation of several measures aimed at further greening the campus.

- Only authorized automobiles are allowed to enter and move in the campus with a pollution check and majority of the vehicles remain outside the campus boundary.
- Bicycles and battery operated vehicles are promoted in the campus among students and staff members.
- Separate user friendly pedestrian pathways have been created to enhance the on foot movements and reduce the use of vehicle.
- Plastic bags are completely banned in the campus and use of paper bags are recommended to all the vendors on the campus.
- Systematic landscaping has been carried out with grass and plants in all the big parks of the university to encourage the use of park by students and staff members.

- Solar systems for water heating and Solar energy for street lights have been introduced.
- PeopleSoft ERP system has been implemented for academics, finance, purchase and stores, and other activities, thereby minimizing paper waste.
- Environmental clearance from the Uttar Pradesh State Pollution Board is obtained before undertaking any project.
- Separate Sewage Treatment Plant to treat the sewage water generated in the campus for use of treated water in gardening.
- The garbage generated in Campus is segregated within the campus and sent to the designated areas through outsourced vendors as per the laid down norms.
- Wet garbage generated from campus dining halls is fed into a Bio Gas Plant to generate gas which in turn is used for mess canteen.
- Tree plantation drives are organized at regular intervals so as to increase the green belt and trees in the campus.
- Ecologically-friendly and energy efficient LED lights are being installed, replacing traditional lights so as to reduce carbon foot prints in the university campus.

Battery-Operated Transportation Service: This service has been established within the University campus to assist students and staff in moving between various building blocks. The most frequently used route for this service runs from Block 1 to Block 7 and the Central Library, meeting the transportation needs of students. Additionally, the university has introduced an e-scooter service for students and staff. These pollution-free electric scooters, equipped with rechargeable batteries, provide convenient shuttle rides between key public transport hubs and the University.



Pedestrian Friendly Pathways- University has constructed pedestrian friendly safe pathway to help students/staff to move from one block to another.

Landscaping with trees and plants – In the financial year 2022-23, a total of 905 tree saplings were planted as a part of Sharda University's tree plantation drive. The event was graced by Shri KK Gupta, ACEO of GNIDA, who apart from planting a tree commended the university's efforts in enhancing greenery and protecting the environment. Shri Promod Shrivastava, DFO, emphasized the importance of not just planting trees but also nurturing and protecting them afterward. The Vice-Chancellor, Prof. Sibaram Khara, planted a Kachnar sapling and spoke about the beautiful violet flowers it produces. Following this, various fruit trees, shade trees, and ornamental trees were planted, including Aonla (Indian gooseberry), Guava, and Jamun, which have medicinal and nutritional value. A list of the trees planted and photos from different locations on campus are enclosed for your review.

Crop Cafeteria - A Crop Cafeteria has been established by the School of Agricultural Science over 50,000 sqft on the campus.

Greenhouse and Green garden- A poly green-house has been established in which high value off-season vegetables like tomato, cherry tomato, bell-peppers, cucumbers and seedlings of various vegetables and flowers are grown organically without using any pesticides.

Paperless Office - The administration of university has largely been made paperless by using following:

- a) All Libraries are automated and connected with Libsys7software.
- b) Attendance is automated via an App based solution, V-Attendance.
- c) E-Learning system for student-faculty interaction is online via LMS.
- d) Departments of Finance, HR and Campus Solutions are interconnected via PeopleSoft ERPv9.2
- e) HR Services are automated using HRSS employee utility.
- f) Electronic payment of fee is enabled with multiple payment options like Pay- U, Paytm, and banks.
- g) Hostel allotment systems are digitized.
- h) Passport/Visa extension reminders are automated for international students.

CNG operated University transport - The use of Compressed Natural Gas (CNG) as a transport fuel is a mature technology. In our University, we are using this fuel in our all of the Buses and Cars.

Use of PNG in University mess – Considering PNG as a pollution-free fuel, economical and safer in

our campus, we are using the Piped Natural Gas (PNG) in our Mess for cooking the food for students and staff.

Use of Solar energy – Sharda University has installed a rooftop solar PV plant with a peak capacity of 1 MW under the RESCO model. The power plant is spread across the rooftops of 11 buildings, including two buildings of Sharda Hospital, where a 204 kW rooftop plant is installed. This brings the total solar power plant capacity to 796 kW peak. Details on the building-wise plant capacities and solar PV generation are provided in the **annexure**.

The PV solar panels, along with the inverters, are installed on the rooftops of the buildings, while the point of connection is the 415V three-phase A.C. busbar located in the electrical mains panel on the ground floor or basement of each building. This setup minimizes power loss in the cables. The power generated is purchased from RESCO under a power purchase agreement (PPA).

On the basis of above initiatives Sharda University received A+ Gold ranking on sustainable institutions of India green ranking 2023.



List of Trees in Sharda University Campus (2022-23)

S No	Tree name		Block 1	Block 2	Block 3	Block 4	Block 7	Block 21	Block 23	Parking Area Block 1, 2, 3	Block 2 to 3	Girls Hostel & Temple	Tagore Hostel	New Staff Qtr.	Golca ntee n & Ma nde la Hos tel ba ck ya rd	A . C . P l a n t	Ma nde la F ro nt & P l a y G ro un d & F o o t B a l l G ro un d	H o s p i t a l	B o u n d r y W a l l E n t r e C a m p u s	S t u d e n t A c t i v i t y c e n t r e	O u t s i d e B o u n d r y W a l l G a t e 3 t o 4	O u t s i d e B o u n d r y W a l l G a t e 4 t o 5	I n d i r a H o s t e l & M o r t u a r y	T o t a l T r e e s
	Botani cal Name	Com mon Nam e																						
1	Deloni x regia	Gul Moho r		5		13	2	9	41	16	9	24	9		75	24	84	25	133		45			514
2	Ficus virens	Pilkha n							7			12	9	21	78	55	20	15	60	5	5			287
3	Termin alia arjuna	Arjun														36		5	42					83
4	Plumer ia alba	Cham pa		29	20	11	2	50		26	50	5	30	6	10	43	21	8						311
5	Alstoni a scholar is	Alsto nia				3				17	11	6	13	6	50	14		40	36					196
6	Grevill ea robusta	Silver Oak									4	5						18	18					45
7	Caryot a urens	Fisht ail palm	6	2	8	6	5	17		46			8				12	25						135
8	Phaner a variega ta	Kach anar	24	25								8		12		29	15	10		2		20		145
9	Cycas revolut a	Cyca s palm			35	15	15											50	105					220
10	Saraca asoca	Asho k	5		5			14			14	22	20		28	4	10	20	10	65	5			222
1	Ficus	Ficus	3	5	5	1		27			29	1	1		33	3	37	8						4

1	benjamina		4	2	4	5		8		0	3		3		0					16	
12	Melaleuca bracteata	Golden Tapor i	22		22	15	10	9			13				16					107	
13	Phoenix sylvestris	Phoenix palm					35	7		3										45	
14	Mimops elengi	Maulsari			5				36							13	14			68	
15	Callistemon lanceolatus	Botle Brush							14				27			104		75		220	
16	Livistona chinensis	China Palm							4							5				9	
17	Ficus benghalensis	Baniana(Burgad)							1						2					3	
18	Ziziphus jujuba	Plum Tree(Ber)							1											1	
19	Azadirachta indica	Neem	1	2						11	5	5	25	11	10	20	43	30	170	7	340
20	Neolamarckia cadamba	Kadam b																		9	
21	Pinus kesiya	Kesia										2								2	
22	Leucaena leuccephala	Subb ool														25				25	
23	Pterocarpus marsupium	Vijay sar															5			5	
24	Bougainvillea glabra	Bougainvillea														17				17	
25	Syzygium cumini	Jamun	30	3		16	29	90	2	2	47	23	4		101	23	50	68		488	
26	Tectona Grandis	Sagaun								5	5	15	10		48					83	
27	Casuarina thevetia	Kanjer (Red + Yellow)		30				5	4		46	11	40		52	17				205	
28	Milletia	Kanji					1				3	5	1	3		33	6			1	

Trees	4	8	6	0	0	7	1	0	3	5	6	4	7	0	4	4	1	7	5	2	9
	7	2	3			9		5	1	9	5	1		9	0	0		7			8
																					4

Green Landscaping on the Campus



7.2.5 Energy wastage identification

Undergo energy reviews to identify areas where energy waste is highest.

Response: Identification of energy waste by regular Energy Audit

Sharda University regularly conducts energy audits through authorized agencies to identify areas of energy wastage. Based on the audit reports, the university organizes various energy-saving awareness programs and events for faculty, students, and the community. Additionally, the university implements new solutions to reduce energy waste. Sharda University's Energy Management System is ISO certified.

Electricity Consumption & solar Generation Details Month of Jan-2021 to till Month-2023																		
Electrical Consumption by NPCL (Contractual Load 6000 KVA from Aug.2022)			Solar Power Generation by Kirti Solar (1000 KWP) - Solar Instalation Date- 5th May 2017 Total Power generation by Solar (1000.68 KWp+165.53 KWp+49.02+325.23 = 1540.46 KWp / 1.54046 MW)											Solar power Generation by Future Generation (Block-4) (165.53 KWp) Total No. of plate= 359	2 nd Solar Power Generation by Asun Power Pvt. Ltd. (Medical Building) (49.02 KWp) Total No. of Plate = 129	Solar Power Generation by Dakson (MLCP) (325.23 KWp) Total No. of Plate=585	Total Generation	
Sr. No	Month	Unit Consumption in (KVAH)	PGD M (100.44 KW & No. of plate (224.1))	SMS R (117.8 kwp) & No of Plats (380)	Block 2 (22.32 kwp) & No of Plats (72)	Block 3 (102.9 kwp) & No of Plats (222)	Block 3 (83.7kwp) & No of Plats (270)	Hospital A-block (118.6 kwp) & No of Plats (324)	SDS (100.44 kwp) & No of Plats (324)	Mandela (23.56 kwp) & No of Plats (72)	Mortuarg (22.32 kwp) & No of Plats (72)	St. center-1 (111.6 kwp) & No of Plats (360)	St. center-2 (111.6 kwp) & No of Plats (360)	Hospital D-Block (87.4 kwp) & No of Plats (270)	Unit Generation in (KWH)	Unit Generation In (KWH)	Unit Generation In (KWH)	Total Generation In Kwh
1	Jan-21	800865	7384	8095	1757	7347	4701	7588	7636	1634	1629	7534	7712	6491	Solar Instalation date- 04.09.2021 (78x465W+221x460 W)	Solar Installation Date:- 15.10.2022	Solar Installation Date:- 08.05.2023	870373
2	Feb-21	720030	9421	11153	2356	9703	6734	9748	10225	2219	2089	9802	9819	8563				811862
3	Mar-21	550095	12968	14332	3003	12678	9144	12868	13012	2900	2710	13690	13560	11277				672237
4	Apr-21	921840	14430	15130	3084	13905	10326	13941	14533	3177	2950	16413	16210	12395				1058334
5	May-21	851940	13564	12869	2736	13046	9624	12872	13169	2974	2683	15375	7092	11697				969641
6	Jun-21	970140	13528	13149	2699	12955	9596	12016	13526	2957	2596	16060	16373	12274				1097869
7	Jul-21	1392915	10792	10441	2174	10561	7301	10335	11001	2368	2044	11502	11003	10206				1492643
8	Aug-21	1395270	11266	10829	2312	10773	7592	10883	11232	2476	2261	nder maintenanc	10408	10408				1475302
9	Sep-21	1324335	9782	9999	2124	9546	6553	9624	10043	2203	2043	nder maintenanc	8488	12464				1407204
10	Oct-21	1349085	11105	12440	2729	11339	7933	12191	11987	2595	2430	nder maintenanc	10048	21483.2				1485365.2
11	Nov-21	726195	8216	7638	1964	8208	5232	8657	8482	1824	1765	nder maintenanc	7110	12015.2				797306.2
12	Dec-21	700395	7328	8191	1802	7326	4508	7693	7620	1599	1574	nder maintenanc	6190	13205.6				767431.6
Total																		12875568

1	Jan-22	905533	6918	7242	1576	6725	4433	6992	7049	1532	1440	nder maintenanc	5714	10148	Solar Installation Date:- 15.10.2022	Solar Installation Date:- 08.05.2023	965302	
2	Feb-22	831915	10392	11153	2421	9844	6697	10686	10080	2296	2172	nder maintenanc	8329	18144			924129	
3	Mar-22	642765	13875	14531	3054	13022	9184	13655	13713	3000	2737	nder maintenanc	10941	17920			758097	
4	Apr-22	1408650	13914	13803	2907	12482	9580	12046	13339	3038	2794	nder maintenanc	9721	22540			1524814	
5	May-22	1811325	11788	12321	2618	12505	9353	10081	13207	2934	2648	nder maintenanc	10227	23879.2			1922886.2	
6	Jun-22	1998150	12106	11811	2571	12143	9129	12266	13053	2867	2580	nder maintenanc	11963	23667.2			2112306.2	
7	Jul-22	1786995	10441	8519	2203	10543	7175	10014	10949	2444	1117	nder maintenanc	10503	20074.4			1880977.4	
8	Aug-22	1686285	11054	5833	2385	10844	7513	10486	11975	2597	2195	3549	3521	10896			21069.6	1790202.6
9	Sep-22	1872015	9490	5141	2169	9647	6543	9932	9722	2207	1633	6735	6218	9194			18274.4	1968920.4
10	Oct-22	1339515	8346	4796	2187	8772	5961	9411	9198	2151	1054	8319	6234	8326			16794.4	1431064.4
11	Nov-22	905475	8299	6205	2039	7985	5384	8477	8564	1857	1572	4963	4569	6987			14717.6	987093.6
12	Dec-22	759510	7706	7877	2013	7543	4881	8097	8471	1712	1799	4211	3785	5848			13595.2	1186.5
Total																		17104027.5



School-wise list of courses related to energy efficiency:

SUSAS	Agricultural Sciences	SBR0501	Bachelor of Science (Hons.) Agriculture	UG	AGL406	Renewable Energy and Green Technology
SUBSR	Life Sciences	SBR0203	Bachelor of Science (Hons.) Physics	UG	PHB337	Renewable energy
SUBSR	Life Sciences	SBR0203	Bachelor of Science (Hons.) Physics	UG	BPH104	Renewable energy resources
SUSET	Computer Science & Engineering	SET0101	Bachelor of Technology (Computer Science & Engineering)	UG	EVS103	Environmental Science-15227
SUSET	Computer Science & Engineering	SET0101	Bachelor of Technology (Computer Science & Engineering)	UG	CVL438	Sustainable Development Environmental Planning
SUSET	Computer Science & Engineering	SET0101	Bachelor of Technology (Computer Science & Engineering)	UG	MEC317	Alternate Fuels and Systems Energy
SUSET	Computer Science & Engineering	SET0101	Bachelor of Technology (Computer Science & Engineering)	UG	MEC345	Industry 4.0
SUSET	Biotechnology	SET0211	Bachelor of Technology (Food Process Technology)	UG	ONT407	Waste to Energy Conversion
SUSBS	Management	SBS0135	Master of Business Administration	PG	DSC084	Responsible & Sustainable Marketing
SUBSR	Chemistry & Biochemistry	SBR0701	Master of Science (Water Resources and Environmental Management/ Environmental Science)	PG	MSG001	Energy Economics and Policy (2201)
SUBSR	Physics	SBR0201	Master of Science (Physics)	PG	MPH115	Renewable Energy Sources

Events Organized by University to Provide awareness of energy:

Energy awareness program is component of the curriculum designed to enhance faculty and students' understanding of sustainability and energy conservation. The program may encompass various campaigns, events, and activities focused on promoting energy-saving techniques and fostering a culture of responsible energy use. The energy awareness initiative at Sharda University includes the following key components:

- **Teaching and Training:** Lectures, workshops, and training sessions on sustainable practises, renewable energy sources, and energy-saving methods. Request lectures from specialists on subjects pertaining to sustainability and energy efficiency were also organised.
- **Audits:** Energy Audits in several campus locations to find out the energy usage trends of structures, classrooms, labs, and other establishments so as to identify areas that could be made more energy-efficient.
- **Energy Monitoring and Feedback:** Set up energy monitoring devices to deliver up to date information on energy usage. To raise awareness among staff and students, post this information on screens located across the schools. Share regular feedback on their energy usage with the departments and concerned individuals so that they can monitor their progress and develop energy-saving behaviors.
- **Awareness Campaigns:** Arrange campaigns to raise public awareness of the value of sustainability and energy conservation. To encourage everyone to turn off lights, utilise natural light wherever feasible, disconnect electronics and cut back on trash, posters, banners, and pamphlets can be erected strategically throughout the campus.
- **Green efforts:** Implement green efforts on campus, like recycling programmes for waste, planting campaigns for trees, and encouragement of environmentally friendly modes of transportation (like carpooling or cycling). Promote using renewable energy sources and energy-efficient appliances.
- **Challenges and Competitions:** Organise energy-saving contests and challenges for students and staff. To motivate hostellers and residences in staff quarters and departments to cut back on their energy use, for instance, hold a competition and award the winners who use the least amount of energy.
- **Partnerships:** Conjoin forces with nearby energy providers, non-governmental organisations, or governmental bodies to enlist their assistance in executing energy- awareness campaigns and offering materials or rewards. By including outside parties in the project, one can increase its visibility, money, and experience.
- **Possibilities for Research:** Encourage academics to carry out studies on subjects pertaining to energy. This can result in breakthroughs or suggestions for policies that support the sustainability objectives of the university.

It may always be kept in mind that continual observation, evaluation, and development are necessary for an energy awareness programme to be effective. The impact of the programme may be measured and areas that need improvement with regular evaluations.

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Say NO to Plastic awareness Programme



Environment Day Celebration



Sadh guru visit in university

7.4.2 100% renewable energy pledge

Promote a public pledge toward 100% renewable energy beyond the university.

Response: University promote a public pledge towards renewable energy which is framed as under.

- At my university, I promise to encourage and support the usage of renewable energy sources. I recognise how critical it is to move away from fossil fuels and towards greener, more sustainable energy sources;
- I will vigorously promote the installation of renewable energy projects, such wind turbines or solar panels, on campus in order to lessen our reliance on non-renewable resources and lessen our carbon imprint;
- I'm going to educate myself and other people on the advantages of renewable energy, such as lower greenhouse gas emissions, better air quality, and the creation of jobs in the clean energy industry;
- I'll work with academic staff, students, and administrators at the university to create and carry out renewable energy projects, like energy-saving plans and campus-wide renewable energy procurement;
- In order to assist the expansion and advancement of clean energy in the neighbourhood around the institution, I will endeavour to form alliances with regional suppliers of renewable energy;

- I'm going to push my classmates to incorporate sustainable habits into their daily lives, such cutting back on energy use, recycling, and taking the bus or bike instead of driving a car;
- To increase my understanding and help develop renewable energy technology, I'll get involved in university clubs, organisations, and research initiatives pertaining to renewable energy; and
- I'll utilise my position as a student to spread the word about renewable energy sources and their importance.

Pledge

I, pledge to part in the energy conservation campaign and energy reduction challenges of the organization & agree to make sincere effort to change behavior and reduce energy use in our home and the organization by adopting various energy saving measures also, I will encourage my friends, relatives and neighbors to do so. By doing so, I understand that I will not only save money but also conserve valuable natural resources and help the nation through carbon emission reduction.

Link of Pledge reports by different schools of Sharda University:

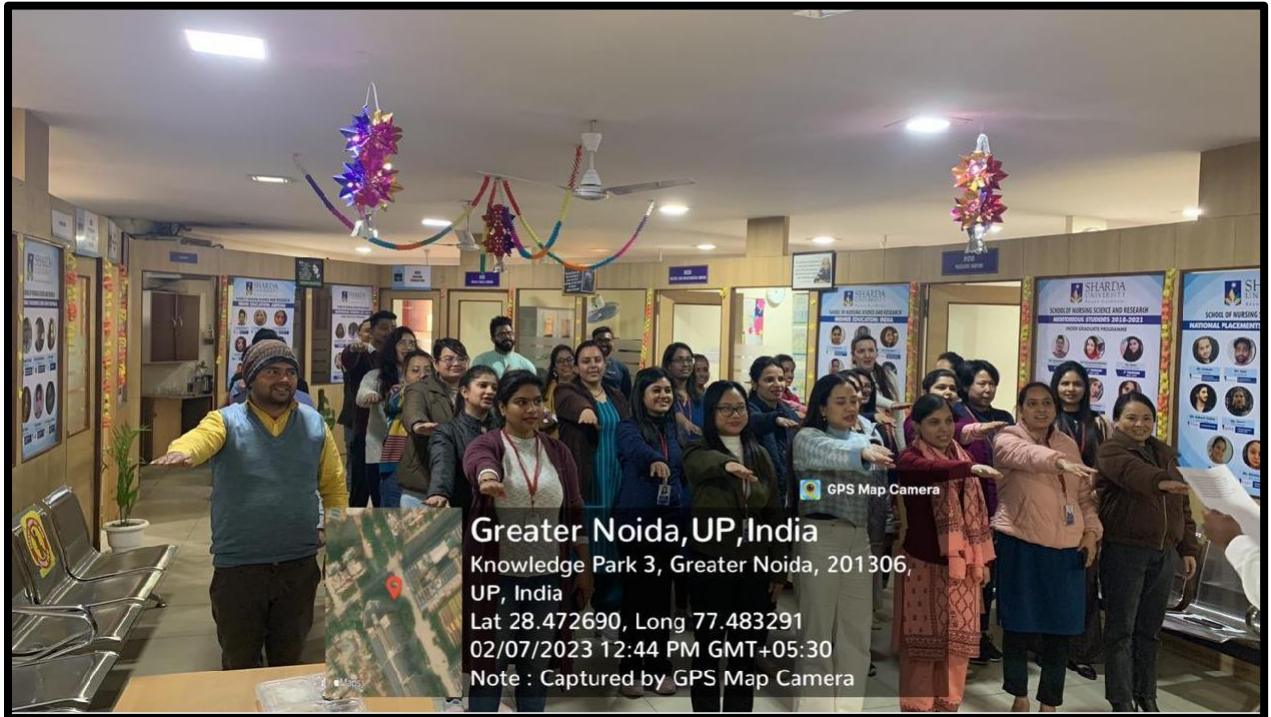
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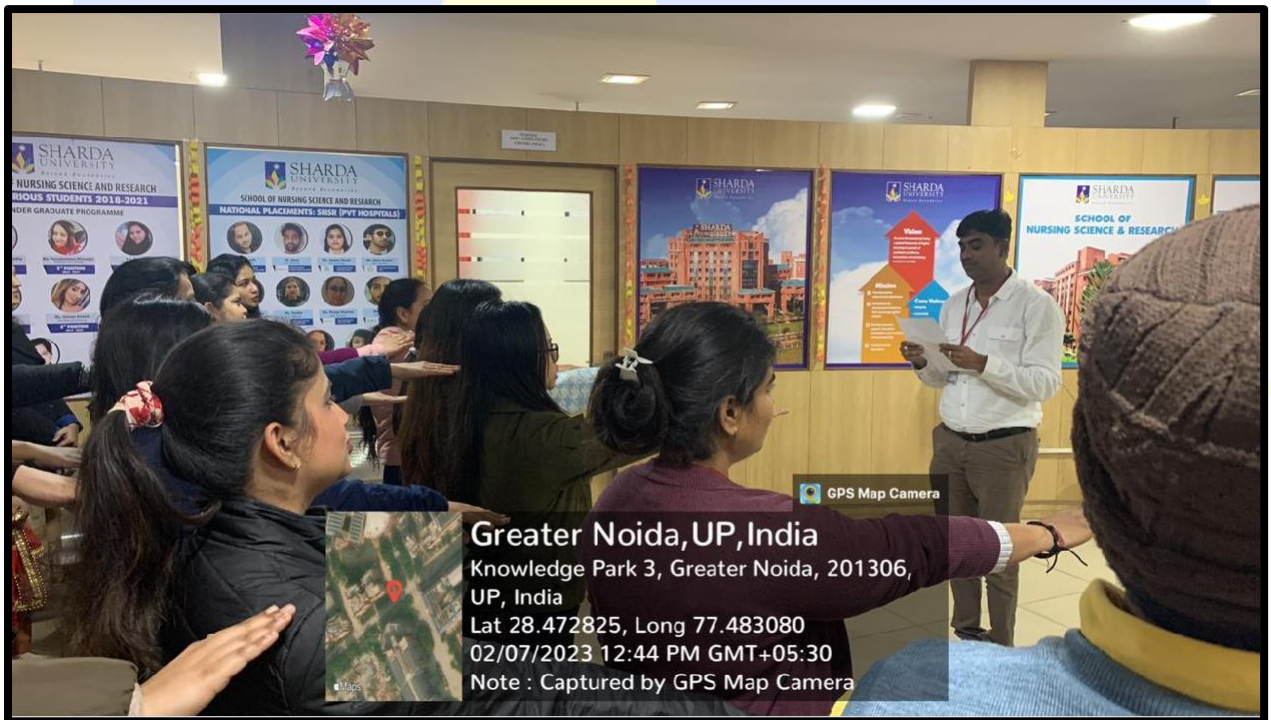
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Greater Noida, UP, India
Knowledge Park 3, Greater Noida, 201306,
UP, India
Lat 28.472690, Long 77.483291
02/07/2023 12:44 PM GMT+05:30
Note : Captured by GPS Map Camera



Greater Noida, UP, India
Knowledge Park 3, Greater Noida, 201306,
UP, India
Lat 28.472825, Long 77.483080
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Note : Captured by GPS Map Camera

7.4.3 Energy efficiency services for industry

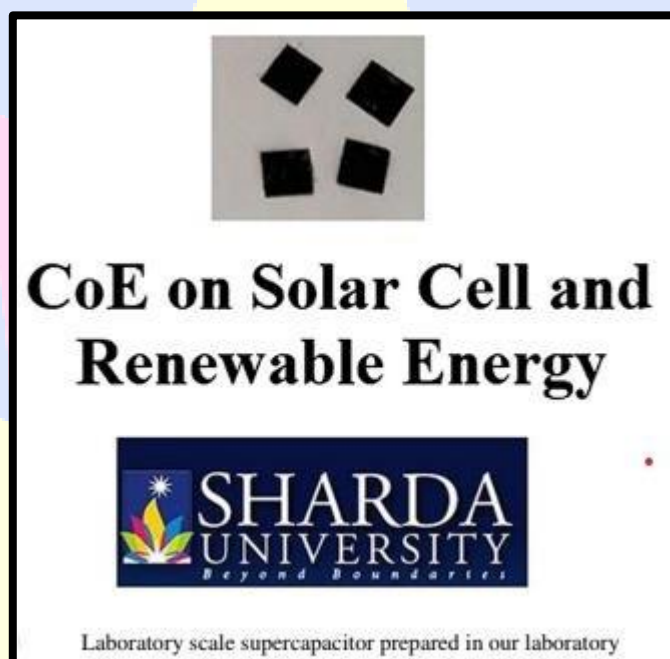
Provide direct services to local industry aimed at improving energy efficiency and clean energy (energy efficiency assessments, workshops, research renewable energy options)

Response: Energy efficiency research-based services available in laboratory scale.

Research and innovation in renewable energy sources are fairly widespread at Sharda University, which has established dedicated departments and centers to focus on areas such as solar, wind, and biomass energy. These centers conduct research, develop new technologies, and collaborate with industry to advance clean and sustainable energy solutions.

Many of our academicians and researchers are involved in pioneering work in green and alternative energy. Here are some highlights of these innovative faculty research initiatives:

i. Development of Super-capacitors using the porous carbon from a PVC polymer



A Ph. D. student from Department of Physics, developing the laboratory scale production of activated carbon synthesized from PVC with CoCl_2 and H_3PO_4 , which is cheaper and has a good yield of source material. A prototype super-capacitor is also successfully developed using activated carbon as an electrode material derived from the PVC polymer and IL (1-ethyl-3-methylimidazolium thiocyanate) as the electrolyte. The performance of the

supercapacitor was estimated via electrochemical impedance spectroscopy, cyclic voltammetry, and the charge– discharge technique. The supercapacitor offered a high specific capacitance of $\sim 120 \text{ F g}^{-1}$ at 5 mV s^{-1} . The performances of the supercapacitor were also estimated up to 15 days and up to 9000 cycles via cyclic voltammetry.

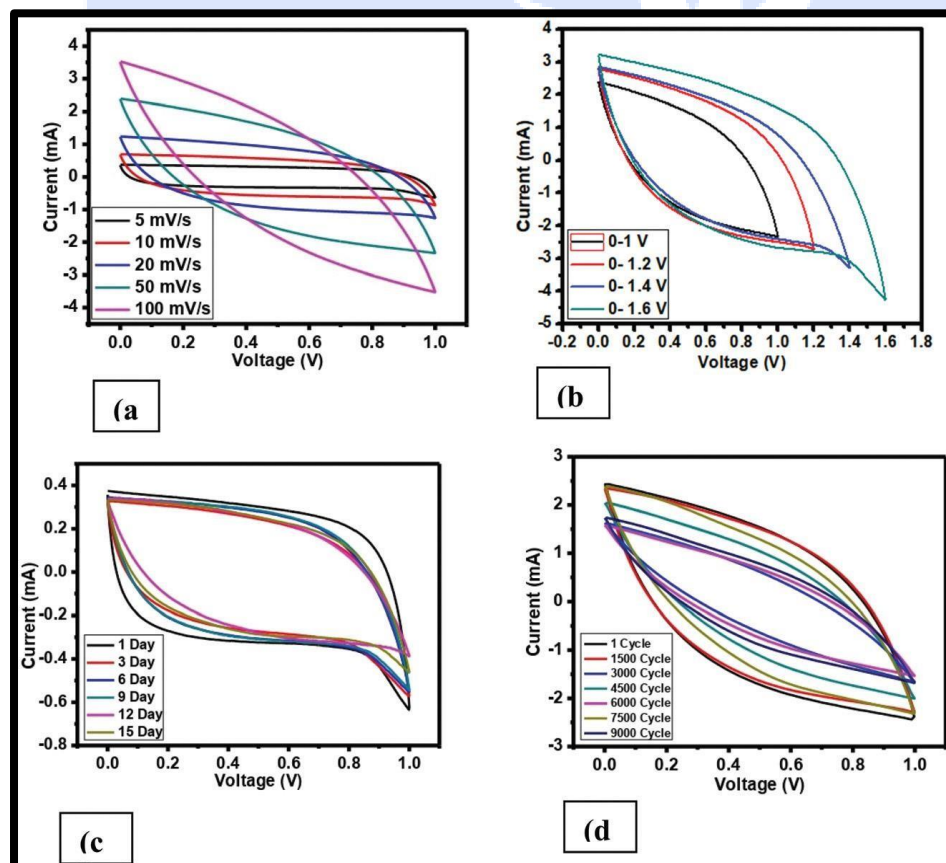


Figure 1 Cyclic voltammetry curve of the fabricated supercapacitors (a) with varying scan rate, (b) with varying voltage range, (c) on different days, (d) on 9000 cycles.

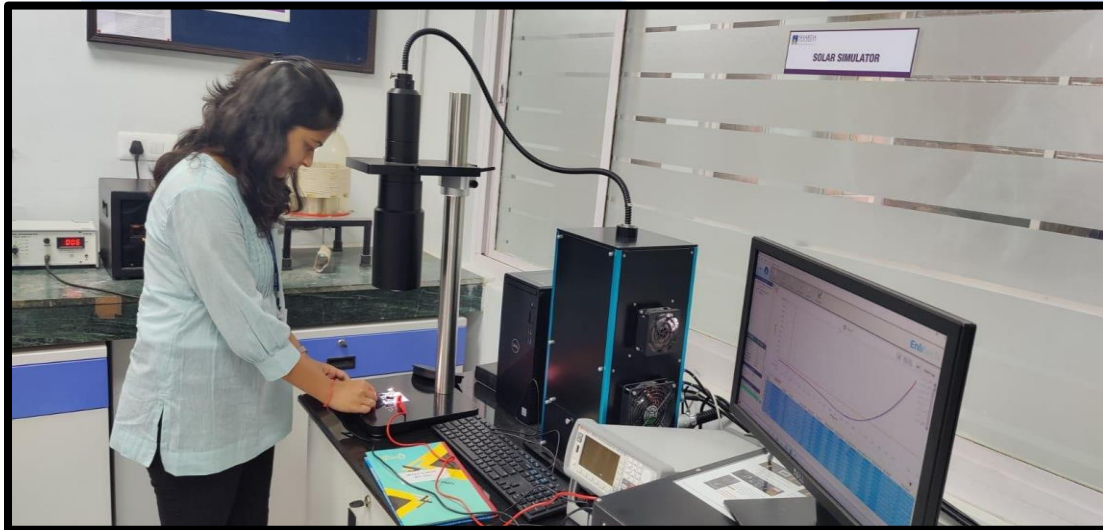
ii. Development of conducting ionic liquid doped polymer electrolyte for energy storage applications

Two Ph. D. students from the department of Physics working on the development of highly conducting ionic liquid doped polymer electrolyte for energy storage applications. The main aim of their work is to optimize highly conducting solid polymer electrolytes by doping of ionic liquid in a Poly-ethylene oxide (PEO) polymer complexed Sodium Iodide (NaI) matrix. Electrical, thermal, structural, and optical studies confirm the homogenous complexation of polymer electrolytes with ionic liquid. Furthermore, the electric double-layer capacitors (EDLCs) device and Dye Sensitized Solar Cell (DSSC) has been developed using high

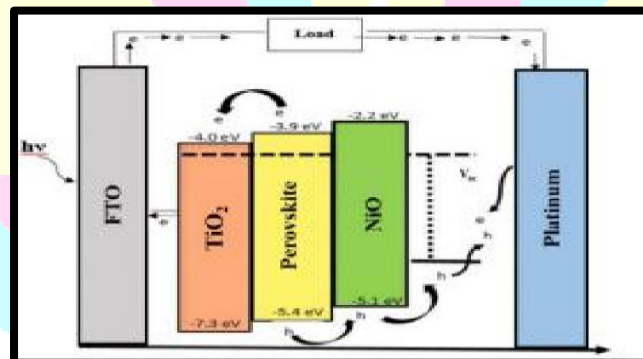
conducting ionic liquid (IL) polymer electrolyte with maximum conductivity, demonstrating that ionic liquids have a potential possibility to choose as an electrolyte in developed energy devices.

iii. Development of Perovskite Solar Cell for clean energy

- Ph. D. student from Department of Physics working on the synthesis of solar cell to find the affordable and clean energy source.



- Dr. Monika Srivastava from department of Physics is also working on perovskite solar cell. The Pervoksite, HTM, and polymer electrolyte and their application in a PSC at room ambient following the sandwich structure. A planar WE/TiO₂/CH₃NH₃PbI₃/HTM/electrolyte/CE structure fabricated through solution-processed spin-coating and the electrical properties of the PSC shown the high efficiency of 13.64%, with Voc=0.63V and J_{sc}=33mA/cm² with fill factor = 0.65. This work shows the sandwich-structured fabrication of the PSC in ambient condition with a considerably good efficiency which represents the novelty of the work.



Perovskite Solar cell

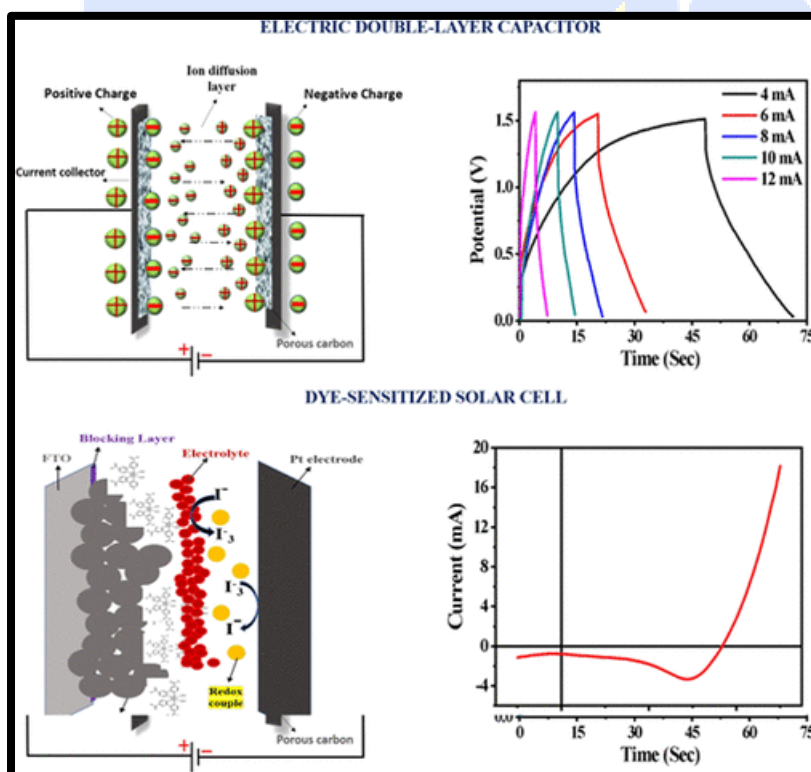
iv. Biowaste material for development of Supercapacitor:

Numerous production and optimisation techniques are employed to create new materials for energy storage. The biowaste has undergone been consistently employed in the development of supercapacitors. Utilizing these bio- waste products facilitates the removal of garbage.



v. Developing Biopolymer-Based Electrolytes for Supercapacitor and Dye-Sensitized Solar Cell Applications

Prof. P.K. Singh and their research is work on solar cell and renewable energy under Centre of Excellence in Department of Physics to achieve goal of affordable clean energy source. The biopolymer employed in this study is cornflour, and the ionic liquid 1-ethyl 3-methylimidazolium thiocyanate is used to create an electrochemical double-layer capacitor (EDLC) and a dye-sensitized solar cell (DSSC). An ionic-liquid-doped biopolymer electrolyte (ILBPE) with a high conductivity is created by incorporating various weight ratios of the ionic liquid into the polymer host. Comprehensive characterizations are done for the electrical, structural, and photoelectrochemical components.



vi. **Lithium-ion batteries are widely used in portable electronic devices**

Dr. Shalu is a faculty in the Dept. of Physics, who has made significant contributions to the field of rechargeable batteries. Lithium-ion batteries are widely used in portable electronic devices due to their high energy density and long cycle life. Research in this field is focused on extending the lifetime, increasing energy density, improving safety, reducing cost, and increasing charging speed of these batteries.

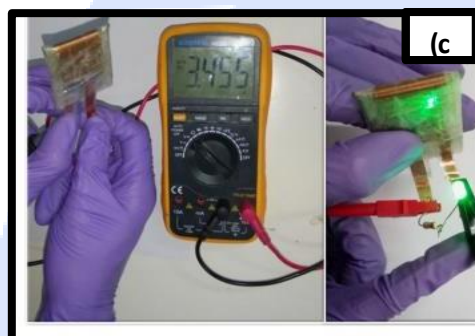
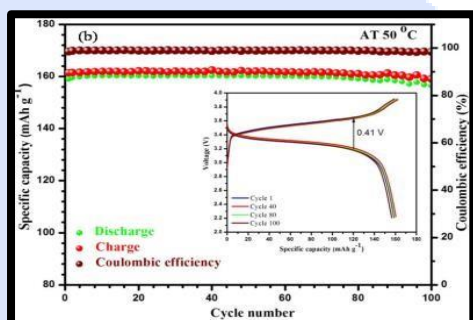


Figure. (a) Prototype of Li-ion rechargeable battery in working condition (b): charge-discharge profile of the Cell at 50 °C under the current rate 0.1 C (c) A prepared Cell-3 (laminated with transparent plastic) working in bend condition along with its potential.

7.4.4 Policy Development for Clean Energy Technology

Inform and support governments in clean energy and energy-efficient technology policy development

Local

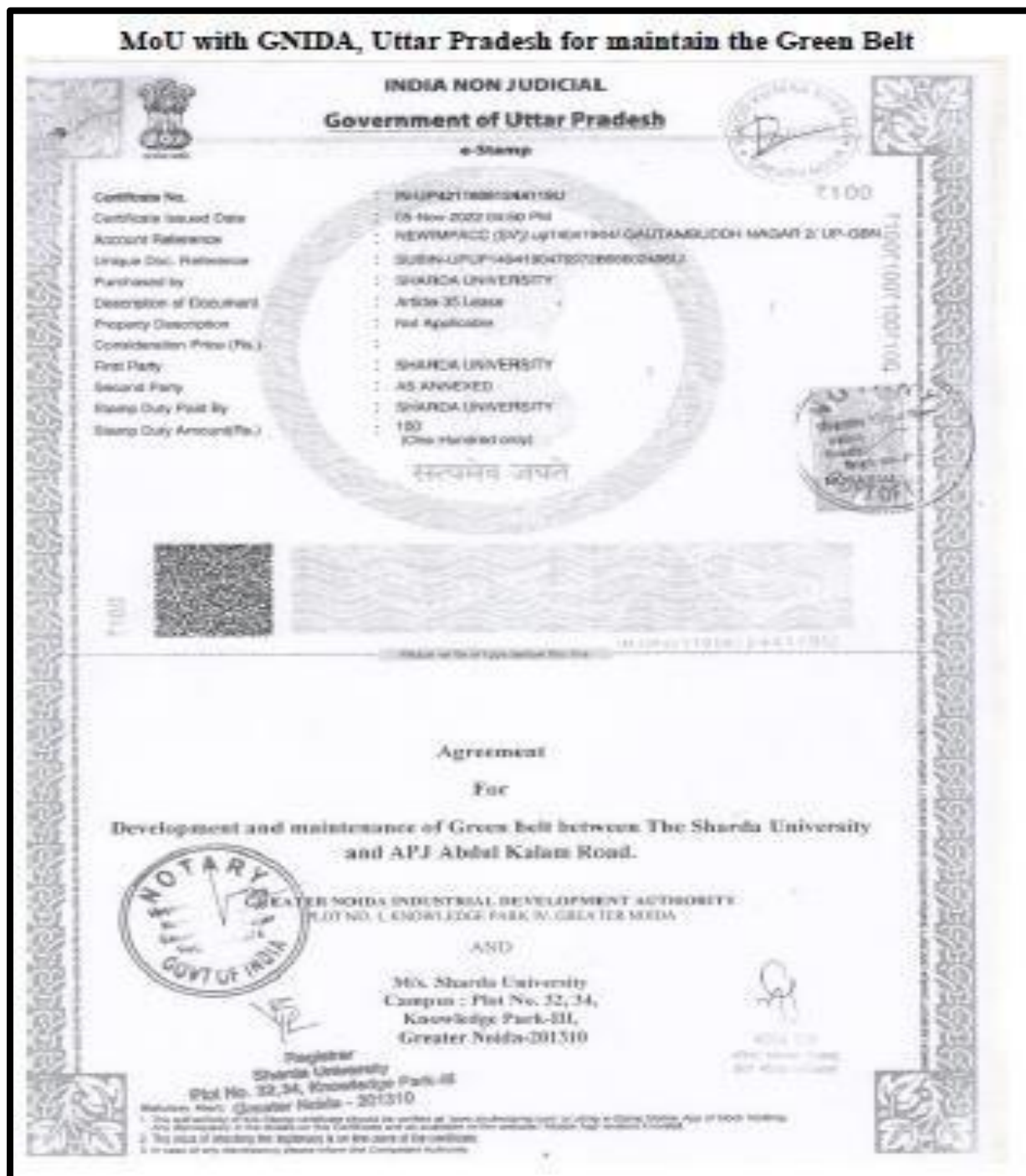
Regional

National

Global

Response: University has initiated collaboration for policy development for clean energy technology on local, regional, National and Global level. However, it may be added that to make the transition to a low-carbon, sustainable future, renewable energy policy creation at the local, national, and international levels is crucial. At every level, the following crucial actions can be taken:

Local level: At the local level, set goals for renewable energy. Aim for the use of renewable energy sources like hydro, geothermal, wind, and solar power. Encouraging energy efficiency Promote the use of energy-efficient equipment and procedures in companies, buildings, and transportation.



MOU with Greater Noida Authority to make Green Belt

Regional level: Encourage the installation of renewable energy systems and energy-efficient technology arranging awareness programme on financial incentives such as grants, tax breaks, and low-interest loans. Build clean energy projects and initiatives in partnership with neighbourhood organisations, companies, and communities. Plans for energy use should be created with the community's input and a focus on the deployment of clean energy.

अमृता सोनी
आई.ए.एस्त.
निदेशक



उ.प्र. नवीन एवं नवीकरणीय ऊर्जा विकास अभिकरण
(अतिरिक्त ऊर्जा कोष विभाग, उत्तर प्रदेश शासन)
विभूति खण्ड, गोकुली नगर, इलाहाबाद - 226 010
दूरभाष: 91-0522-2720652 फैक्स: 91-0522-2720779

सेवा में,
रजिस्टार,
शारदा यूनिवर्सिटी,
ग्रेटर नोएडा।

महोदय,

आप द्वारा विशेष रुचि लेते हुए वेबसाइट www.upsavesenergy.com पर "एनर्जी सेविंग कैम्पेन" के अन्तर्गत अपने प्रतिष्ठान का पंजीकरण कराया गया एवं अपने प्रतिष्ठान के कार्मिकों को ऊर्जा संरक्षण के प्रति जागरूक करते हुए अपने प्रतिष्ठान में ऊर्जा संरक्षण से संबंधित विभिन्न गतिविधियों संचालित की गई। प्रदेश में ऊर्जा संरक्षण हेतु अभिकरण के प्रयासों को सफल बनाने में आपके प्रतिष्ठान का सहयोग अत्यंत प्रशंसनीय है।

मुझे यह सूचित करते हुए अत्यंत डर्ष हो रहा है कि उक्त कैम्पेन के अन्तर्गत वर्ष 2018 हेतु निर्धारित स्कोर कार्ड पर आपके प्रतिष्ठान द्वारा अर्जित किए गए अंकों के आधार पर प्रदेश में प्रथम स्थान प्राप्त हुआ है।

उक्त हेतु अभिकरण द्वारा निकट भविष्य में आपके प्रतिष्ठान को पुरस्कृत करते हुए सम्मानित किया जाएगा जिसके लिए पृथक से सूचित किया जाएगा। मुझे पूर्ण विश्वास है कि भविष्य में भी आपके प्रतिष्ठान द्वारा उत्तर प्रदेश सरकार के ऊर्जा संरक्षण अभियान में निरन्तर सहयोग किया जाता रहेगा।

मैं आपकी और आपके प्रतिष्ठान की निरन्तर प्रगति की कानना करती हूँ।

भवदीया

(अमृता सोनी)

Uttar Pradesh State Designated Agency under EC ACT-2001

Certificate of 1st rank in Utter Pradesh Energy Saving Campion

National level: Mandatory renewable portfolio standards should be established, requiring that a specified percentage of energy come from clean sources by a set deadline. Investing in research and development can accelerate the commercialization of renewable energy solutions by driving innovation. Implementing supportive regulations is essential to enhance energy security, increase energy access, and facilitate the integration of renewable energy into the grid. Developing a comprehensive national energy plan that outlines strategies for transitioning to sustainable energy sources and promoting energy independence is also crucial.

Global level: Promote international collaboration and information exchange to enhance the understanding and implementation of clean energy policies. Engage in and organize international conferences to support the global transition to clean energy sources and advocate for legislation that fosters this shift on the international stage.

List of National and International Conferences During 2022-23 :

Name of the conference	National/International	Year of publication	Month of Publication	ISBN/IS SN number of the proceeding	Whether at the time of publication affiliation institute was same (YES or NO)	Affiliating Institute at the time of publication	Name of the publisher
2022 International Conference on Computing, Communication and Intelligent Systems (ICCCIS)	International	2022	November	-	YES	Sharda University	IEEE
2022 Fifth International Conference on Computational Intelligence and Communication Technologies (CCICT)	International	2022	October	978-1-6654-7224-1	YES	Sharda University	IEEE

4th International Conference on Data and Information Sciences, ICDIS 2022	International	2022	November	978-981195291-3	YES	Sharda University	Springer
2022 Second International Conference on Computer Science, Engineering and Applications (ICCSEA)	International	2022	November	978-1-6654-5834-4	YES	Sharda University	IEEE
2022 10th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) (ICRITO)	International	2022	December	978-1-6654-7433-7	YES	Sharda University	IEEE
International Conference on Machine Intelligence and Data Science Applications	International	2022	August	978-981-19-2347-0	YES	Sharda University	Springer, Singapore
1st International Conference on Computational Intelligence and Sustainable Engineering Solutions (CISES) -2022	International	2022	August	978-1-6654-8004-8	YES	Sharda University	IEEE
2nd International Conference on Intelligent Technologies (CONIT) - 2022	International	2022	August	978-1-6654-8407-7	YES	Sharda University	IEEE

International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON) - 2022	National	2022	August	978-1-6654-9602-5	YES	Sharda University	IEEE
3rd International Conference on Communication and Intelligent Systems, ICCIS 2021	International	2022	August	978-981-19-2130-8	YES	Sharda University	Springer, Singapore
2022 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON)	National	2022	August	978-1-6654-9602-5	YES	Sharda University	IEEE
2022 ASU International Conference in Emerging Technologies for Sustainability and Intelligent Systems (ICETSIS)	International	2022	September	978-1-6654-6919-7	YES	Sharda University	IEEE
3rd International Conference on Smart Electronics and Communication (ICOSEC) - 2022	International	2022	November	978-1-6654-9764-0	YES	Sharda University	IEEE
2nd International Conference on Intelligent Technologies (CONIT) - 2022	International	2022	August	978-1-6654-8407-7	YES	Sharda University	IEEE

Machine Intelligence and Data Science Applications	International	2022	August	978-981-19-2347-0	YES	Sharda University	Springer, Singapore
2022 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON)	International	2022	August	978-1-6654-9602-5	YES	Sharda University	IEEE Xplore
International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COMITCon)	International	2022	August	978-1-6654-9602-5	YES	Sharda University	IEEE
1st International Conference on Computational Intelligence and Sustainable Engineering Solution (CISES2022)	International	2022	August	978-1-6654-8004-8	YES	Sharda University	IEEE
Conference on Machine Intelligence and Data Science Applications	International	2022	August	978-981-19-2347-0	YES	Sharda University	Springer
Conference on Machine Intelligence and Data Science Applications	International	2022	August	978-981-19-2347-0	YES	Sharda University	Springer
Conference on Machine Intelligence and Data Science Applications	International	2022	August	978-981-19-2347-0	YES	Sharda University	Springer

2nd International Conference on "Advancement in Electronics & Communication Engineering (AECE 2022)	International	2022	July	11272018	YES	Sharda University	SSRN
2022 IEEE IAS Global Conference on Emerging Technologies (GlobConET)	International	2022	September	978-166544357-9	YES	Sharda University	IEEE
2022 IEEE IAS Global Conference on Emerging Technologies (GlobConET)	International	2022	September	978-1-6654-4357-9	YES	Sharda University	IEEE
International conference on Advanced Computing and Intelligent Technologies, ICACIT 2022	International	2022	August	978-981-19-2980-9	YES	Sharda University	Springer, Singapore
Advanced Computing and Intelligent Technologies	International	2022	August	978-981-19-2980-9	YES	Sharda University	Springer, Singapore
ICACIT 2022	International	2022	August	978-981-19-2980-9	YES	Sharda University	Springer
ICAAAIML-2021	International	2022	September	978-981-19-4831-2	YES	Sharda University	Springer
(ICCSEA-2022)	International	2022	November	978-1-6654-5834-4	YES	Sharda University	IEEE Xplore
Second International Conference on Computer Science, Engineering and Applications (ICCSEA-2022)	International	2022	November	978-1-6654-5834-4	YES	Sharda University	IEEE

International Conference on Intelligent Technologies (CONIT) 2022	International	2022	August	978-1-6654-8407-7	YES	Sharda University	IEEE
7th International Conference on Computing Engineering & Technology (ICCET 2022)	International	2022	February	978-1-83953-704-2	YES	Sharda University	IET Digital Library
2022 IEEE Learning with MOOCS (LWMOOCS)	International	2022	November	978-1-6654-2486-8	YES	Sharda University	IEEE
International Conference on Innovative Computing and Communications	International	2022	September	978-981-19-2535-1	YES	Sharda university	Springer
2022 Fifth International Conference on Computational Intelligence and Communication Technologies (CCICT)	International	2022	October	978-1-6654-7224-1	YES	Sharda University	IEEE Xplore
IEEE International Conference on Computing, Communication and Intelligent Systems	International	2023	February	978-1-6654-6200-6	YES	Sharda University	IEEE
ICACIT 2022	International	2022	August	978-981-19-2980-9	YES	Sharda University	Springer
ICAAAIML 2021	International	2022	September	978-981-19-4831-2	YES	Sharda University	Springer

IAS Global Conference on Emerging Technologies (GlobConET)-2022	International	2022	September	978-1-6654-4357-9	YES	Sharda University	IEEE
2022 International Conference on Computing, Communication and Intelligent Systems (ICCCIS)	International	2022	February	978-1-6654-6200-6	YES	Sharda University	IEEE
2022 International Conference on Computational Intelligence and Sustainable Engineering Solutions (CISES)	International	2022	August	978-1-6654-8005-5	YES	Sharda University	IEEE
International Conference "Circular Economy: Opportunities and Challenges"	International	2022	November	978-606-533-587-5	YES	Sharda University	Editura Universitară Danubius
2nd national seminar on Applied research	National	2022	December	978-81-961118-8-5	YES	Sharda University	Noble Science Press
2nd national seminar on Applied research	National	2022	December	978-81-961118-8-5	YES	Sharda University	Noble Science Press
2nd national seminar on Applied research	National	2022	December	978-81-961118-8-5	YES	Sharda University	Noble Science Press
2nd National Seminar on Applied Research	National	2022	December	978-81-961118-8-5	YES	Sharda University	Noble Science Press
2nd National Seminar on Applied Research	National	2022	December	978-81-961118-8-5	YES	Sharda University	Noble Science Press

2nd National Seminar on Applied Research	National	2022	December	978-81-961118-8-5	YES	Sharda University	Noble Science Press
2nd National Seminar on Applied Research	National	2022	December	978-81-961118-8-5	YES	Sharda University	Noble Science Press
2nd National Seminar on Applied Research	National	2022	December	978-81-961118-8-5	YES	Sharda University	Noble Science Press
2nd National Seminar on Applied Research	National	2022	December	978-81-961118-8-5	YES	Sharda University	Noble Science Press (International Publishing)
2nd National Seminar on Applied Research	National	2022	December	978-81-961118-8-5	YES	Sharda University	Noble Science Press
2nd National Seminar on Applied Research	National	2022	December	978-81-961118-8-5	YES	Sharda University	Noble Science Press
2022 International Conference on Computing, Communication and Intelligent Systems (ICCCIS)	International	2023	February	978-1-6654-6200-6	YES	Sharda University	IEEE
International Conference on Quality Evidence in CSI	International	2022	November	939278754-5	YES	Sharda University	Selective Scientific Books &
International Conference on Quality Evidence in CSI	International	2022	November	939278754-5	YES	Sharda University	Selective Scientific Books &
International Conference on Quality Evidence in CSI	International	2022	November	939278754-5	YES	Sharda University	Selective Scientific Books &

International Conference on Quality Evidence in CSI	International	2022	November	939278754-5	YES	Sharda University	Selective Scientific Books	&
International Conference on Quality Evidence in CSI	International	2022	November	939278754-5	YES	Sharda University	Selective Scientific Books	&
International Conference on Quality Evidence in CSI	International	2022	November	939278754-5	YES	Sharda University	Selective Scientific Books	&
2022 International Conference on Smart and Sustainable Technologies in Energy and Power Sectors (SSTEPS)	International	2023	May	978-1-6654-6414-7	YES	Sharda University	IEEE	
10th International Conference on Computing for Sustainable Global Development (INDIACom)	International	2023	May	978-93-80544-47-2	YES	Sharda University, Greater Noida	IEEE	
10th International Conference on Computing for Sustainable Global Development (INDIACom)	International	2023	May	978-93-80544-47-2	YES	Sharda University, Greater Noida	IEEE	
2022 12th International Conference on Cloud Computing, Data Science & Engineering (Confluence)	International	2022	March	978-1-6654-3701-1	YES	Sharda University	IEEE	

2021 9th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) (ICRITO)	International	2021	November	978-1-6654-1703-7	YES	Sharda University	IEEE Xplore
2022 International Conference on Emerging Smart Computing and Informatics (ESCI)	International	2022	April	978-1-6654-0073-2	YES	Sharda University	IEEE
2021 IEEE 6th International Conference on Computing, Communication and Automation (ICCCA)	International	2022	January	978-1-6654-1473-9	YES	Sharda University	IEEE
IEEE 6th International Conference on Computing, Communication and Automation	International	2021	December	978-1-6654-1473-9	YES	Sharda University	IEEE Explore
International Palandoken Scientific Studies Congress	International	2022	February	978-625-8377-44-6	YES	Sharda University	International Science and Art Research Center

International Conference on Research, Innovations and Practices in Science, Technology and Management for Societal Benefits [RIPSTMS-2022]	International	2022	April	978-93-91535-30-8	YES	Sharda University	A. R. Research Publication
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World Women Conference-IV	National	2022	March	978-625-7464-80-2	YES	Sharda University	IKSAD Publications
10th International conference on system modelling and advancements in research trends	International	2022	January	978-1-6654-3968-8	YES	Sharda University	IEEE
ICEEE 2022: Innovations in Electrical and Electronic Engineering	International	2022	April	978-981-19-1676-2	YES	Sharda University	Springer
Intelligent Computing Techniques for Smart Energy Systems	International	2022	June	978-981-19-0251-2	YES	Sharda University	Springer
2021 6th IEEE International Conference on Recent Advances and Innovations in Engineering (ICRAIE)	International	2022	December	978-1-6654-3402-7	YES	Sharda University	IEEE
International Conference on Artificial Intelligence: Advances and Applications	International	2022	February	978-981-16-6332-1	YES	Sharda University	Springer

17th Annual Conference of UPUEA	National	2022	April	0975-2382	YES	Sharda University	UPUEA Economic Journal
International Conference on Computational Performance Evaluation (ComPE) North-Eastern Hill University, Shillong, Meghalaya, India. Dec 1-3, 2021	International	2022	April	978-1-6654-3657-1	YES	Sharda University	IEEE
International Conference on Computational Performance Evaluation (ComPE) North-Eastern Hill University, Shillong, Meghalaya, India	International	2022	April	978-1-6654-3656-4	YES	Sharda University	IEEE
8th International Conference on Signal Processing and Integrated Networks (SPIN)	International	2021	October	978-1-6654-3563-5	YES	Sharda University	IEEE
7th International Conference on Computing in Engineering & Technology (ICCET 2022)	International	2022	June	978-1-83953-704-2	YES	Sharda University	IET
2022 IEEE Delhi Section Conference (DELCON)	International	2022	April	978-1-6654-5883-2	YES	Sharda University	IEEE
Sharda University	National	2022	-	978-1-6684-3504-5	YES	Sharda University	IGI Global

International e-Conference on New Horizons And Multidisciplinary Applications In Science And Technology Association with International Journal of Scientific Research in Science and Technology	International	2022	-	2395-602X	YES	Sharda University	International Journal of Scientific Research in Science and Technology
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Mapping the shifting Paradigms of Post Modern Society	International	2022	February	978-100-53-445-66	YES	Sharda University	All India Forum for Students and Trainers (AIFEST)
International Conference on TECHNOLOGY INNOVATIONS IN MECHANICAL ENGINEERING	International	2022	-	978-93-92787-18-8	YES	Sharda University	Selective Scientific Books
International Conference on TECHNOLOGY INNOVATIONS IN MECHANICAL ENGINEERING	International	2022	February	978-93-92787-18-8	YES	Sharda University	Selective Scientific Books
International Conference on TECHNOLOGY INNOVATIONS IN MECHANICAL ENGINEERING	International	2022	February	978-93-92787-18-8	YES	Sharda University	Selective Scientific Books

International Conference on TECHNOLOGY INNOVATIONS IN MECHANICAL ENGINEERING	International	2022	February	978-93-92787-18-8	YES	Sharda University	Selective Scientific Books	&
International Conference on TECHNOLOGY INNOVATIONS IN MECHANICAL ENGINEERING	International	2022	February	978-93-92787-18-8	YES	Sharda University	Selective Scientific Books	&
International Conference on TECHNOLOGY INNOVATIONS IN MECHANICAL ENGINEERING	International	2022	February	978-93-92787-18-8	YES	Sharda University	Selective Scientific Books	&

International Conference on TECHNOLOGY INNOVATIONS IN MECHANICAL ENGINEERING	International	2022	February	978-93-92787-18-8	YES	Sharda University	Selective Scientific Books	&
International Conference on TECHNOLOGY INNOVATIONS IN MECHANICAL ENGINEERING	International	2022	February	978-93-92787-18-8	YES	Sharda University	Selective Scientific Books	&
International Conference on TECHNOLOGY INNOVATIONS IN MECHANICAL ENGINEERING	International	2022	February	978-93-92787-18-8	YES	Sharda University	Selective Scientific Books	&

International Conference on TECHNOLOGY INNOVATIONS IN MECHANICAL ENGINEERING	International	2022	February	978-93-92787-18-8	YES	Sharda University	Selective Scientific Books	&
International Conference on TECHNOLOGY INNOVATIONS IN MECHANICAL ENGINEERING	International	2022	February	978-93-92787-18-8	YES	Sharda University	Selective Scientific Books	&
International Conference on TECHNOLOGY INNOVATIONS IN MECHANICAL ENGINEERING	International	2022	February	978-93-92787-18-8	YES	Sharda University	Selective Scientific Books	&
International Conference on TECHNOLOGY INNOVATIONS IN MECHANICAL ENGINEERING	International	2022	February	978-93-92787-18-8	YES	Sharda University	Selective Scientific Books	&

International Conference on TECHNOLOGY INNOVATIONS IN MECHANICAL ENGINEERING	International	2022	February	978-93-92787-18-8	YES	Sharda University	Selective Scientific Books	&
International Conference on TECHNOLOGY INNOVATIONS IN MECHANICAL ENGINEERING	International	2022	February	978-93-92787-18-8	YES	Sharda University	Selective Scientific Books	&

International Conference on TECHNOLOGY INNOVATIONS IN MECHANICAL ENGINEERING	International	2022	February	978-93-92787-18-8	YES	Sharda University	Selective Scientific Books &
International Conference on TECHNOLOGY INNOVATIONS IN MECHANICAL ENGINEERING	International	2022	February	978-93-92787-18-8	YES	Sharda University	Selective Scientific Books &
5th AMIFOST-2022	International	2022	March	978-93-91535-31-5	YES	Sharda University	Amity University Noida
5th AMIFOST-2022	International	2022	March	978-93-91535-31-5	YES	Sharda University	Amity University Noida
5th AMIFOST-2022	International	2022	March	978-93-91535-31-5	YES	Sharda University	Amity University Noida
2022 9th International Conference on Computing for Sustainable Global Development (INDIACom)	International	2022	May	978-93-80544-44-1	YES	Sharda University	IEEE

International Conference on Micro-Electronics and Telecommunication Engineering (ICMETE-2022)	International	2022	February	978-981-16-8721-1	YES	Sharda University	Springer
International Conference on Micro-Electronics and Telecommunication Engineering (ICMETE-2022)	International	2022	February	978-981-16-8721-1	YES	Sharda University	Springer
9th International Conference on Innovations in Electronics and Communication Engineering (ICIECE-2022)	International	2022	March	978-981-16-8512-5	YES	Sharda University	Springer
9th International Conference on Innovations in Electronics and Communication Engineering (ICIECE-2022)	International	2022	March	978-981-16-8512-5	YES	Sharda University	Springer
International Conference on Advances in Mechanical and Industrial Engineering (ICAMIE 2020)	International	2022	July	9.78E+12	YES	Sharda University	CRC Press

International Conference on Food Sustainability: Challenges and Opportunities for the Future	International	2022	March	978-93-91535-31-5	YES	Sharda University	Amity University Noida
2021 International Conference on Disruptive Technologies for Multi-Disciplinary Research and Applications (CENTCON-2021)	International	2022	February	978-1-6654-0017-6	YES	Sharda University	IEEE
2nd International Conference on Innovative Practices in Technology and Management (ICIPTM-2022)	International	2022	April	978-1-6654-6643-1	YES	Sharda University	IEEE
8th International Conference on Advanced Computing and Communication Systems (ICACCS-2022)	International	2022	June	978-1-6654-0816-5	YES	Sharda University	IEEE
8th International Conference on Advanced Computing and Communication Systems (ICACCS-2022)	International	2022	June	978-1-6654-0816-5	YES	Sharda University	IEEE

8 th International Conference on Advanced Computing and Communication Systems (ICACCS-2022)	International	2022	June	978-1-6654-0816-5	YES	Sharda University	IEEE
International Conference on Technological Advancement and Innovations (ICTAI-2021)	International	2022	January	978-1-6654-2087-7	YES	Sharda University	IEEE
International Conference on Technological Advancement and Innovations (ICTAI-2021)	International	2022	January	978-1-6654-2087-7	YES	Sharda University	IEEE
8th International Conference on Advanced Computing and Communication Systems (ICACCS-2022)	International	2022	June	978-1-6654-0816-5	YES	Sharda University	IEEE
Amifost 2022	International	2022	March	978-93-91535-31-5	YES	Sharda School Of Allied Health Sciences	Amity University
International Conference on Sustainable Development Goals and Gender Perspectives	International	2022	-	978-81-955422-1-5		Sharda University, Knowledge Park III, Greater NOIDA	Eagle Printers and Publishers Pvt. Ltd.

Emerging Technologies for Computing, Communication and Smart Cities	International	2022	April	978-981-19-0284-0	YES	Sharda University	Springer
Innovations in Electronics and Communication Engineering	International	2022	March	978-981-16-8511-8	YES	Sharda University	Springer
AMIFOST 2022	International	2022	March	978-93-91535-31-5	YES	Sharda University	Amity University
AMIFOST 2022	International	2022	March	978-93-91535-31-5	YES	Sharda University	Amity University
AMIFOST 2022	International	2022	March	978-93-91535-31-5	YES	Sharda University	Amity University

AMIFOST 2022	International	2022	March	978-93-91535-31-5	YES	Sharda University	Amity University
AMIFOST 2022	International	2022	March	978-93-91535-31-5	YES	Sharda University	Amity University
AMIFOST 2022	International	2022	March	978-93-91535-31-5	YES	Sharda University	Amity University
AMIFOST 2022	International	2022	March	978-93-91535-31-5	YES	Sharda University	Amity University
AMIFOST 2022	International	2022	March	978-93-91535-31-5	YES	Sharda University	Amity University
AMIFOST 2022	International	2022	March	978-93-91535-31-5	YES	Sharda University	Amity University
AMIFOST 2022	International	2022	March	978-93-91535-31-5	YES	Sharda University	Amity University

2021 International Conference on Computational Performance Evaluation	International	2022	April	978-1- 6654- 3656-4	YES	Sharda University	IEEE Xplore
2022 8th International Conference on Advanced Computing and Communication Systems (ICACCS)	International	2022	June	978-1- 6654- 0816-5	YES	Sharda University	IEEE Xplore
2021 International Conference on Computational Performance Evaluation (ComPE)	International	2022	April	978-1- 6654- 3656-4	YES	Sharda University	IEEE Xplore

2021 International Conference on Computational Performance Evaluation (ComPE)	International	2022	April	978-1- 6654- 3656-4	YES	Sharda University	IEEE
2022 8th International Conference on Advanced Computing and Communication Systems (ICACCS)	International	2022	June	978-1- 6654- 0816-5	YES	Sharda University	IEEE
2021 2nd International Conference on Smart Electronics and Communication (ICOSEC)	International	2021	November	978-1- 6654- 3368-6	YES	Sharda University	IEEE

Fifth International Conference on Electronics, Communication and Aerospace Technology (ICECA 2021)	International	2022	January	978-1-6654-3524-6	YES	Sharda University	IEEE
International Conference on Information Age: Culture, identity & communication	National	2021	December	978-93-85696-87-9	YES	Sharda University	Yash Publications
Inclusive Education for Sustainable Development: From Idea to Action	National	2022	April	978-93-5636-518-6	YES	Sharda University	Army Institute of Education, Greater Noida
SMART 2021	International	2022	January	978-1-6654-3970-1	YES	Sharda University	IEEE
9th International Conference on Computing for Sustainable Global Development (INDIACom)	International	2022	May	978-93-80544-44-1	YES	Sharda University	IEEE
9th International Conference on Computing for Sustainable Global Development (INDIACom)	International	2022	May	978-93-80544-44-1	YES	Sharda University	IEEE

2021 10th International Conference on System Modeling & Advancement in Research Trends (SMART)	International	2022	January	978-1-6654-3970-1	YES	Sharda University	IEEE Xplore
DOSCI 2021	International	2021	September	978-981-16-3346-1	YES	Sharda University	Springer, Singapore
2021 International Conference on Computational Performance Evaluation (ComPE)	International	2022	April	978-1-6654-3656-4	YES	Sharda University	IEEE
2022 9th International Conference on Computing for Sustainable Global Development (INDIACom)	International	2022	May	978-93-80544-44-1	YES	Sharda University	IEEE Xplore
2022 9th International Conference on Computing for Sustainable Global Development (INDIACom)	International	2022	May	978-93-80544-44-1	YES	Sharda University	IEEE
2022 9th International Conference on Computing for Sustainable Global Development (INDIACom)	International	2022	May	978-93-80544-44-1	YES	Sharda University	IEEE

2022 9th International Conference on Computing for Sustainable Global Development (INDIACom)	International	2022	May	978-93-80544-44-1	YES	Sharda University	IEEE Xplore
Computational Intelligence in Machine Learning	International	2022	March	978-981-16-8484-5	YES	Sharda University	Springer
Computational Intelligence in Machine Learning. Lecture Notes in Electrical Engineering,	International	2022	March	978-981-16-8484-5	YES	Sharda University	Springer
2022 Fifth International Conference on Computational Intelligence and Communication Technologies (CCICT)	International	2022	October	978-1-6654-7224-1	YES	Sharda University	IEEE Xplore

RIST – 2022	International	2022	June	978-81-954872-0-2	YES	Sharda University	Proceedings of International Conference on Recent Innovations in Science & Technology
Technology Innovations in Mechanical Engineering (Time-2022)	International	2022	February	978-93-92787-18-8	YES	Sharda University	Selective Scientific Books
Recent Innovations in Science and Technology	International	2022	June	978-81-954872-0-2	YES	Sharda University	ISET Research, India

2nd International Conference on TECHNOLOGY INNOVATIONS IN MECHANICAL ENGINEERING (TIME-2022)	International	2022	February	978-93-92787-18-8	YES	Sharda University	Selective Scientific Books	&
Electronic Systems and Intelligent Computing	International	2022	June	978-981-16-9488-2	YES	Sharda University	Springer	
2022 Second International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT)	International	2022	July	978-1-6654-1120-2	YES	Sharda University	IEEE Xplore	
Proceedings of the Sixth International Conference on Trends in Electronics and Informatics (ICOEI 2022)	International	2022	May	978-1-6654-8328-5	YES	Sharda University	IEEE Xplore	
INDIACom-2022	International	2022	May	978-93-80544-36-6	YES	Sharda University	IEEE Xplore	
12th International Conference on Cloud Computing, Data Science & Engineering (Confluence)-2022	International	2022	March	978-1-6654-3701-1	YES	Sharda University	IEEE	

12th International Conference on Cloud Computing, Data Science & Engineering (Confluence)-2022	International	2022	March	978-1-6654-3701-1	YES	Sharda University	IEEE
1st International Conference on Computational Electronics for Wireless Communications, ICCWC 2021	International	2022	-	9.79E+12	YES	Sharda University	Springer Science and Business Media Deutschland GmbH
I-4AM 2022	International	2022	July	978-981-19-0561-2	YES	Sharda University	Springer
Natinal Seminar conducted By Sharda School of law	National	2022	-	978-81-956533-0-0	YES	Sharda University	The Law Brigade Publishers, Chandkheda, Ahmedabad, (2022).
ICACDS 2022	International	2022	July	978-3-031-12638-3	YES	Sharda University	Springer
9th International Conference on Computing for Sustainable Global Development (INDIACom) 2022	International	2022	May	978-93-80544-44-1	YES	Sharda University	IEEE Explore
International Conference on Applied Artificial Intelligence and Computing (ICAAIC)-2022	International	2022	June	978-1-6654-9710-7	YES	Sharda University	IEEE

6th International Conference on Computing, Communication and Automation (ICCCA)-2021	International	2022	January	978-1- 6654- 1473-9	YES	Sharda University	IEEE
3 International Conference on Recent Advancements & Innovations in Management, Media, Science, Technology, Education and Legal Issues	International	2022	May	978-8- 19- 527515- 1	YES	Sharda University	JIMS, Greater Noida
3rd International Conference on ICT for Digital, Smart and Sustainable Development (ICIDSSD- 2022)	International	2022	March	978-93- 5607- 215-2	YES	Sharda University	Jamia Hamdard
3rd International Conference on ICT for Digital, Smart and Sustainable Development (ICIDSSD- 2022)	International	2022	March	978-93- 5607- 215-2	YES	Sharda University	
2022 8th International Conference on Advanced Computing and Communication Systems (ICACCS)	International	2022	June	978-1- 6654- 0817-2	YES	Sharda University	IEEE

2nd International Conference on Recent Advances in Material Science and Nanotechnology In Association with International Journal of Scientific Research in Science and Technology	International	2022	-	2395-602X	YES	Sharda University	IJSRST
International Virtual Conference on Innovation in Multidisciplinary Studies- IVCIMS 2021	International	2021	August	2319-4979	YES	Sharda University	Vidyabharati Interdisciplinary Research Journal
2022 8th International Conference on Advanced Computing and Communication Systems (ICACCS)	International	2022	March	978-1-6654-0816-5	YES	Sharda University	IEEE
2nd International Conference on "Advancement in Electronics & Communication Engineering (AECE 2022)	International	2022	July	1556-5068	YES	Sharda University	Raj Kumar Goel Institute of Technology, Ghaziabad
8th International Conference on Advanced Computing and Communication Systems (ICACCS) 2022	International	2022	June	978-1-6654-0816-5	YES	Sharda University	IEEE

2nd National Seminar on Applied Research	National	2022	December	978-81-961118-8-5	YES	Sharda University	Noble Science Press (International Publishing)
Third International Conference on Computing, Communications and Cyber-Security IC4S 2021	International	2022	July	978-981-19-1141-5	YES	Sharda University	Springer, Singapore
2022 9th International Conference on Computing for Sustainable Global Development (INDIACom)	International	2022	May	978-93-80544-44-1	YES	Sharda University	IEEE
1st International Conference on Problems and Perspectives of Modern Science, ICPPMS 2021	International	2022	June	978-073544345-7	YES	Sharda University	American Institute of Physics
International Conference on Science and Applied Science, ICSAS 2021	International	2022	March	978-073544185-9	YES	Sharda University	American Institute of Physics
1st International Conference on Artificial Intelligence, Computational Electronics and Communication System, AICECS 2021	International	2022	January	17426588	YES	Sharda University	IOP Publishing Ltd

1st International Conference on Artificial Intelligence, Computational Electronics and Communication System, AICECS 2021	International	2022	January	1742-6588	YES	Sharda University	IOP Publishing Ltd
3rd National Conference on Frontiers in Modern Physics, NCFMP 2021	National	2022	January	1742-6596	YES	Sharda University	Institute of Physics (IOP)
2022 IEEE 7th International conference for Convergence Technology (I2CT)	International	2022	July	978-1-6654-2168-3	YES	Sharda University	IEEE
2022 2nd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE)	National	2022	July	978-1-6654-3789-9	YES	Sharda University	IEEE
2022 IEEE 7th International conference for Convergence Technology (I2CT)	International	2022	July	978-1-6654-2168-3	YES	Sharda University	IEEE
2022 IEEE Nigeria 4th International Conference on Disruptive Technologies for Sustainable Development (NIGERCON)	International	2022	June	978-1-6654-7978-3	YES	Sharda University	IEEE

2022 3rd International Conference for Emerging Technology (INCET)	International	2022	July	978-1-6654-9499-1	YES	Sharda University	IEEE
2022 3rd International Conference for Emerging Technology (INCET)	International	2022	July	978-1-6654-9499-1	YES	Sharda University	IEEE
9th International Conference on Computing for Sustainable Global Development (INDIACom) - 2022	International	2022	May	978-93-80544-44-1	YES	Sharda University	IEEE
7th International Conference on Computing in Engineering and Technology, ICCET 2022	International	2022	May	978-981-19-2719-5	YES	Sharda University	Springer, Singapore
6th International Conference on Trends in Electronics and Informatics (ICOEI) - 2022	International	2022	May	978-1-6654-8328-5	YES	Sharda University	IEEE
8th International Conference on Advanced Computing and Communication Systems (ICACCS) - 2022	International	2022	June	978-1-6654-0816-5	YES	Sharda University	IEEE

1st International Conference on Technologies for Smart Green Connected Society 2021, ICTSGS 2021	International	2022	January	978-160768539-5	YES	Sharda University	Institute of Physics (IOP)
1st International Conference on Technologies for Smart Green Connected Society 2021, ICTSGS 2021	International	2022	January	978-160768539-5	YES	Sharda University	Institute of Physics (IOP)
10th International Conference on Emerging Trends in Engineering and Technology - Signal and Information	International	2022	June	978-1-6654-6741-4	YES	Sharda University	IEEE
2nd International Conference on Emerging Technologies for Computing, Communications, and Smart Cities, ETCCS 2021	International	2022	April	978-981-19-0284-0	YES	Sharda University	Springer, Singapore
International Conference on Emergent Converging Technologies and Biomedical Systems, ETBS 2021	International	2022	March	978-981-16-8774-7	YES	Sharda University	Springer, Singapore

3rd International Conference on Data and Information Sciences, ICDIS 2021	International	2022	February	978-981-16-5689-7	YES	Sharda University	Springer, Singapore
3rd International Conference on Data and Information Sciences, ICDIS 2021	International	2022	February	978-981-16-5689-7	YES	Sharda University	Springer, Singapore
9th International Conference on Innovations in Electronics and Communication Engineering, ICIECE 2021	International	2022	March	978-981-16-8512-5	YES	Sharda University	Springer, Singapore
9th International Conference on Innovations in Electronics and Communication Engineering, ICIECE 2021	International	2022	March	978-981-16-8512-5	YES	Sharda University	Springer, Singapore
5th International Conference on Microelectronics and Telecommunication Engineering, ICMETE 2021	International	2022		978-981-16-8721-1	YES	Sharda University	Springer, Singapore

5th International Conference on Microelectronics and Telecommunication Engineering, ICMETE 2021	International	2022		978-981-16-8721-1		Sharda University	Springer, Singapore
9th International Conference on Innovations in Electronics and Communication Engineering, ICIECE 2021	International	2022		978-981-16-8512-5	YES	Sharda University	Springer, Singapore
5th International Conference on Microelectronics and Telecommunication Engineering, ICMETE 2021	International	2022	February	978-981-16-8721-1	YES	Sharda University	Springer, Singapore
1st International Conference on Computational Electronics for Wireless Communications, ICCWC 2021	International	2022	January	978-981-16-6246-1	YES	Sharda University	Springer, Singapore
1st International Conference on Computational Electronics for Wireless Communications, ICCWC 2021	International	2022	January	978-981-16-6246-1	YES	Sharda University	Springer, Singapore

9th International Conference on Computing for Sustainable Global Development (INDIACom) - 2022	International	2022	May	978-93-80544-44-1	YES	Sharda University	IEEE
9th International Conference on Computing for Sustainable Global Development (INDIACom) - 2022	International	2022	May	978-93-80544-44-1	YES	Sharda University	IEEE
9th International Conference on Computing for Sustainable Global Development (INDIACom) - 2022	International	2022	May	978-93-80544-44-1	YES	Sharda University	IEEE
12th International Conference on Cloud Computing, Data Science & Engineering (Confluence) - 2022	International	2022		978-1-6654-3701-1	YES	Sharda University	IEEE

7.4.5 Assistance to low-carbon innovation

Provide assistance for start-ups that foster and support a low-carbon economy or technology

Response: Provide assistance for patents and industrial commercialization

The university provides support, facilities, and funding for start-ups that advance low-carbon technology for the future. Innovative ideas, research, and technologies are first patented, and once patented, these innovations are then applied to industrial applications for start-ups.