

Patent Details for Verification_NIRF2023 (SLIET, Longowal)

Note: Provide your Institution's Patent details (Only Utility Patents) Discipline-wise as applied for NIRF Ranking each in Separate List/Table (Only Published & Granted during 2019 – 2021 year-wise) strictly in this provided format, and clearly write/mention the Discipline & Institute ID above the List/Table as prescribed. Details of the Design, Trademarks, or Copyrights, and only Filed Patents must be avoided. Those details should not be entered or provided in the list below as those won't be considered for the ranking. Patent details must be submitted along with all the source proofs (attached) like screenshots, pdf, image file from databases like InPASS, WIPO, USPTO, Espacenet, Derwent Innovation, etc. and direct URL/Website links, etc.

Discipline Name applied for NIRF2023 Ranking: **ENGINEERING**

Institute ID: **IR-E-U-0384 (SLIET, Longowal)**

Provide below the Year-wise Count of Submitted Patent Data by the Institute (2019 to 2021) for NIRF2023 as applied in Discipline-specific:

Published_2019	Published_2020	Published_2021	Granted_2019	Granted_2020	Granted_2021	Total Published (2019-2021)
0	2	24	0	1	0	26

Patent Details with proofs (Attach screenshots, pdf, image file, etc.):

Sl. No.	Patent Application No.	Status of Patent (Published / Granted)	Inventor/s Name	Title of the Patent	Applicant/s Name	Patent Filed Date (DD/MM/YYYY)	Patent Published Date / Granted Date (DD/MM/YYYY)	Patent Publication Number / Patent Granted Number	Assignee/s Name (Institute Affiliation/s at time of Application)	Here, attach Source Proof Screenshots/URL/ Website Links, etc.
1	202111002380	Published	Er. Anil Kumar, Prof. Avinash Thakur, and Prof. Parmjit S. Panesar of SLIET, Longowal	A process for the removal of phenol using green emulsion liquid membrane	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal	19-01-2021	26-02-2021	202111002380	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal	https://drive.google.com/file/d/1RsK_23ZhtIEIDQQLSc9xz7T1pQEFCDK/view?usp=sharing
2	202011048252	Published	Prof. Surinder Singh, Professor (ECE), SLIET, Longowal	SMART UV-C SAFE DISINFECT WASTE BIN AND METHOD THEREOF	Prof. Surinder Singh, Professor (ECE), SLIET, Longowal	04-11-2020	08-10-2021	202011048252	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal	https://drive.google.com/file/d/1RoQzLTSnwdaoqql8Buqz_qhzOzg5RDA/view?usp=sharing
3	202111023672	Published	Er. Anshuka Bansal, Associate Professor and Er.Sunil Kumar Bansal, Assistant Professor of SLIET, Longowal and -Dr.Priti Prabhakar	A System for Battery optimization for automatic vehicle and method thereof	Er. Anshuka Bansal, Associate Professor and Er.Sunil Kumar Bansal, Assistant Professor of SLIET, Longowal and Dr.Priti Prabhakar	27-05-2021	11-06-2021	202111023672	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal	https://drive.google.com/file/d/1UGGxQpf-PFGxuJ9ep-I5QeT417GMNvFw/view?usp=sharing
4	202111029671	Published	Dr. Manpreet Singh Manna, Associate Professor, SLIET, Longowal and Dr. Inderpreet Kaur	Sustainable Cremation System	Dr. Manpreet Singh Manna, Associate Professor, SLIET, Longowal	01-07-2021	23-07-2021	202111029671	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal	https://drive.google.com/file/d/1-Y8C-h4NR9tZA5uptbkRWVBm-jM_7lU/view?usp=sharing
5	202111044047	Published	Vikash Kumar Garg, Assistant Professor (Contractual), SLIET, Longowal	A Dynamic Integrated Multi-Persistence (DIMP) method for enhancing the performance of traditional database for a query operation	Vikash Kumar Garg, Assistant Professor (Contractual), SLIET, Longowal and Shivani	28-09-2021	05-11-2021	202111044047	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal	https://drive.google.com/file/d/1UqgmUQNlmi1ajoG8SIt0kaT4Yye9DK/view?usp=sharing
6	202111016121	Published	Dr. Manpreet Singh Manna, Associate Professor, SLIET, Longowal -Dr. Inderpreet Kaur -Pooja Aggarwal -Pardeep Kumar -Dr. Atul Kumar	Health Emergency Based Traffic Management System	Shri Ramswaroop Memorial Group of Professional Colleges, Lucknow and -Dr.Manpreet Singh Manna, Associate Professor, SLIET, Longowal	06-04-2021	09-04-2021	202111016121	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal	https://drive.google.com/file/d/1wW-7omX18Obg3QjVsKs9313SAozLTcl/view?usp=sharing
7	202111016122	Published	Dr. Manpreet Singh Manna, Associate Professor, SLIET, Longowal -Dr. Inderpreet Kaur -Pankaj Aggarwal -Pardeep Kumar -Dr. Indu Prabha Singh	Smart Liquid Container	Shri Ramswaroop Memorial Group of Professional Colleges, Lucknow and -Dr.Manpreet Singh Manna, Associate Professor, SLIET, Longowal	06-04-2021	16-04-2021	202111016122	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal	https://drive.google.com/file/d/18zUkschpcINOGAB6BeVkiAm4TsgAzy7H/view?usp=sharing

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8	202111016120	Published	Dr. Manpreet Singh Manna, Associate Professor, SLIET, Longowal -Dr. -Preeta Saran -Anup M Upadhaya -Dr. Maneesh Srivastava -Dr. Inderpreet Kaur -Dr. Indu Prabha Singh	Hand Exercising Device	Shri Ramswaroop Memorial Group of Professional Colleges, Lucknow and -Dr.Manpreet Singh Manna, Associate Professor, SLIET, Longowal	06-04-2021	16-04-2021	202111016120	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal	https://drive.google.com/file/d/1LVcdimtBRnA60Xup1ZfMzgaQRLTZKOK2/view?usp=sharing
9	202111025557	Published	Dr. Manpreet Singh Manna, Associate Professor, SLIET, Longowal -Dr. -Preeta Saran -Dr. Inderpreet Kaur -Archana Yadav -Dr. Anil Kumar -Srujana Ramchandra -Dr. Thangadurai N. -Dr. Shalini Aggarwal -Dr. Reecha Sharma -Lakshmi Shankar	Wearable Health Monitoring And Curing Device	Shri Ramswaroop Memorial Group of Professional Colleges, Lucknow and -Dr.Manpreet Singh Manna, Associate Professor, SLIET, Longowal	08-06-2021	18-06-2021	202111025557	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal	https://drive.google.com/file/d/144ym6GTWWpnkBX3RuvC36tiv5Tr5eYnS/view?usp=sharing
10	202111034008	Published	-Brahm Parkash Dwivedi -Awanish Kumar Shukla -Dr. Indu Prabha Singh -Ranjan Tripathi -Dr. Anju Jaiswal -Sheshdhar Dwivedi -Dr. Manpreet Singh Manna, Associate Professor, SLIET, Longowal -Pooja Aggarwal -Dr. Inderpreet Kaur	Smart Shade Controlling Device	Shri Ramswaroop Memorial Group of Professional Colleges, Lucknow and -Dr.Manpreet Singh Manna, Associate Professor, SLIET, Longowal	28-07-2021	27-08-2021	202111034008	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal	https://drive.google.com/file/d/1PRvdopmb66Ei6VsfNmGldYerVBw3nX5X/view?usp=sharing
11	202111034010	Published	-Dr. Atul Kumar -Dr.Bhaves Kumar Chauhan -Monis Anis -Devendra Kumar -Spna Pal -Umesh Partap Singh -Dr. Manpreet Singh Manna, Associate Professor, SLIET, Longowal -Pooja Aggarwal -Dr. Inderpreet Kaur	Disease Transmission Prevention and Public Health Safety Surveillance System	Shri Ramswaroop Memorial Group of Professional Colleges, Lucknow and -Dr.Manpreet Singh Manna, Associate Professor, SLIET, Longowal	28-07-2021	27-08-2021	202111034010	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal	https://drive.google.com/file/d/1oLXT9FW5YQqzoAI9MM02NqC8Wnc4V2cl/view?usp=sharing
12	202111034009	Published	-Mukesh Kumar -Dr. J.S. Ubhi, Professor, SLIET, Longowal -H.S. Jatana -Dr. Bhavesh Chauhan -Dr. Vikrant Bhateja -Dr. Vibha Srivastava -Dr. Manpreet Singh Manna, Associate Professor, SLIET, Longowal -Pankaj Aggarwal -Dr. Inderpreet Kaur	Radiation Hardened Memory Device	Shri Ramswaroop Memorial Group of Professional Colleges, Lucknow and -Dr.Manpreet Singh Manna, Associate Professor, SLIET, Longowal	28-07-2021	27-08-2021	202111034009	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal	https://drive.google.com/file/d/1_69jimeIKIQ8MhdpPIC162WkM7D5hr/view?usp=sharing

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13	202111034011	Published	-Dr. Atul Kumar -Dr. Vinodhani Katiyar -Sahil Verma -Divya Shukla -Saurabh Jain -Dr. Bhavesh Kumar Chauhan -Dr. Manpreet Singh Manna, Associate Professor, SLIET, Longowal -Pooja Aggarwal -Dr. Inderpreet Kaur	Artificial Intelligence Based Answer Sheet Evaluation System	Shri Ramswaroop Memorial Group of Professional Colleges, Lucknow and -Dr. Manpreet Singh Manna, Associate Professor, SLIET, Longowal	28-07-2021	27-08-2021	202111034011	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal	https://drive.google.com/file/d/1QmSgMyYm89hapUoSaaZ9Ylt-a8xEc5No/view?usp=sharing
14	202111025558	Published	Dr. Manpreet Singh Manna, Associate Professor, SLIET, Longowal -Pooja Aggarwal -Dr. Inderpreet Kaur -Dr. Niraj Gupta -Tanya Garg -Dr. Palwinder Kumar -Dr. Harpreet Vohra	Emergency Aid And Patient Carrying Device	Shri Ramswaroop Memorial University, Lucknow and -Dr. Manpreet Singh Manna, Associate Professor, SLIET, Longowal	08-06-2021	18-06-2021	202111025558	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal	https://drive.google.com/file/d/1IjEJimg7Ho3B-QXoD3NAx22aLrPp2T/view?usp=sharing
15	202011038111	Published	Dr. Manpreet Singh Manna, Associate Professor, SLIET, Longowal -Dr. Meenakshi Sharma -Dr. B. Balamurugan -Dr. Arvind Kumar -Dr. Jayant Shekar -Rajnish Kumar Mishra -Aditya Tandon -Dr. R. Lakshmana Kumar	Secure secret key sharing based asymmetric cryptography with blockchain for internet of things	Dr. Manpreet Singh Manna, Associate Professor, SLIET, Longowal -Dr. Meenakshi Sharma -Dr. B. Balamurugan -Dr. Arvind Kumar -Dr. Jayant Shekar -Rajnish Kumar Mishra -Aditya Tandon Dr. R. Lakshmana Kumar	03-09-2020	25-09-2020	202011038111	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal	https://drive.google.com/file/d/1BuWhQ3nlvFdY5LmzmymrzC7f5bphch7/view?usp=sharing
16	202011051091	Published	-Dr. Shalini Gupta -Dr. Inderpreet Kaur -Dr. Manpreet Singh Manna, Associate Professor, SLIET, Longowal	Anti-theft system for bags	Desh Bhagat University, Mandi Gobindgarh, Punjab	24-11-2020	01-01-2021	202011051091	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal	https://drive.google.com/file/d/1thsAeEqmK3K14G5J4ckADnP45_KJZtdk/view?usp=sharing
17	202111003000	Published	-Dr. Inderpreet Kaur -Dr. Manpreet Singh Manna, Associate Professor, SLIET, Longowal -Dr. Amandeep Singh Oberoi -Dr. Sunil Kumar Singla	Hybrid electricity generation system	Desh Bhagat University, Mandi Gobindgarh, Punjab	21-01-2021	29-01-2021	202111003000	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal	https://drive.google.com/file/d/1iZ2NGubrhxSVw73-ljRVQqEBfndhe9l/view?usp=sharing
18	202111003009	Published	-Dr. Zora Singh -Dr. Inderpreet Kaur -Dr. Manpreet Singh Manna, Associate Professor, SLIET, Longowal -Dr. Sandeep Singh	Health Monitoring System	Desh Bhagat University, Mandi Gobindgarh, Punjab	21-01-2021	29-01-2021	202111003009	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal	https://drive.google.com/file/d/1jMsF6MmTuAJKKXeLsC5ZxPaYm_U8AJTH/view?usp=sharing

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19	202111002999	Published	-Dr. Inderpreet Kaur -Dr. Manpreet Singh Manna, Associate Professor, SLIET, Longowal -Dr. Amandeep Singh Oberoi -Dr. Sunil Kumar Singla	Sustainable Electricity Generation System	Desh Bhagat University, Mandi Gobindgarh, Punjab	21-01-2021	05-03-2021	202111002999	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal	https://drive.google.com/file/d/1nf4lo3zuha5_o0lhRLJDDQ3klAgl1f2E/view?usp=sharing
20	202111056615	Published	Dr. Manpreet Singh Manna, Associate Professor, SLIET, Longowal -Srishtee Chaudhary -Dr. Ashwani Sethi -Jatin Sharma	MODULAR SHOPPING SYSTEM	Guru Kashi University, Talwandi Sabo, Bathinda, Punjab	06-12-2021	17-12-2021	202111056615	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal	https://drive.google.com/file/d/1PxKRp4uffJNd2kVrg1pO1Cd7e0fk66DG/view?usp=sharing
21	202111056619	Published	Dr. Manpreet Singh Manna, Associate Professor, SLIET, Longowal -Dr. Varinder Singh -Kawaljit Kaur -Dr. Parveen Kumar	ADVANCE RUNNING DEVICE	Guru Kashi University, Talwandi Sabo, Bathinda, Punjab	06-12-2021	17-12-2021	202111056619	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal	https://drive.google.com/file/d/1h0FGk2N2_M1tFvGbk13E63FArtGSQYw/view?usp=sharing
22	202111056624	Published	Dr. Manpreet Singh Manna, Associate Professor, SLIET, Longowal -Ramandeep Kaur -Lovepreet Kaur -Dr. Asim Ali Khan, Associate Professor, SLIET, Longowal	TEMPERATURE CONTROLLED ELECTRIC HEATING DEVICE FOR LUNCH BOXES	Guru Kashi University, Talwandi Sabo, Bathinda, Punjab	06-12-2021	17-12-2021	202111056624	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal	https://drive.google.com/file/d/1aTqGKQ_FegahCtYfIPXkMHQK-XEnTyXf/view?usp=sharing
23	202111058565	Published	Dr. Manpreet Singh Manna, Associate Professor, SLIET, Longowal -Neelam Grewal -Baljinder Singh -Ashwani Kumar -Sandeep Kumar Khehra	AUTOMATED VINE PLANT PROPAGATION DEVICE	Guru Kashi University, Talwandi Sabo, Bathinda, Punjab	15-12-2021	31-12-2021	202111058565	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal	https://drive.google.com/file/d/10L-eF_ygPuwwLkFtCRXfHrQgQ409kUQM/view?usp=sharing
24	202111058562	Published	Dr. Manpreet Singh Manna, Associate Professor, SLIET, Longowal -Neelam Grewal -Gurpreet Singh -Dr. Nahinder Kumar -Amandeep Kaur -Dr. Madhu Chandra	ADJUSTABLE AND SECURED EAR ORNAMENT	Guru Kashi University, Talwandi Sabo, Bathinda, Punjab	15-12-2021	31-12-2021	202111058562	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal	https://drive.google.com/file/d/1kFOCY6cM33c_xMXL6HyOv28ZIT6GQx0/view?usp=sharing
25	202111058563	Published	Dr. Manpreet Singh Manna, Associate Professor, SLIET, Longowal -Dr. Kawaljit Singh -Dr. Jaswinder Singh -Karanbir Singh -Jashan	CHARCOAL PILE LIGHTING DEVICE	Guru Kashi University, Talwandi Sabo, Bathinda, Punjab	15-12-2021	31-12-2021	202111058563	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal	https://drive.google.com/file/d/17OF2ocTV03sKcIE_gX-DtmkviS-bW1D2/view?usp=sharing

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26	2020101845	Granted	Balusamy, Balamurugan PROF; Chaudhary, Sumit DR; Kallam, Suresh DR; Kumar, Arvind DR; (Manna, Manpreet Singh DR; Associate Professor, SLIET, Longowal) R, Lakshmana Kumar DR; Shankar, Lakshmi MR; Sharma, Meenakshi PROF; Sharma, Reecha DR	Customized Identity Management Systems (CIMS) for Smart City Infrastructure Platform through Blockchain	Balusamy, Balamurugan PROF; Chaudhary, Sumit DR; Kallam, Suresh DR; Kumar, Arvind DR; (Manna, Manpreet Singh DR; Associate Professor, SLIET, Longowal) R, Lakshmana Kumar DR; Shankar, Lakshmi MR; Sharma, Meenakshi PROF; Sharma, Reecha DR	15-08-2020	09-09-2020	2020101845	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal	https://drive.google.com/file/d/18Mq_khdP53H0W_KlBigy-LKLq2QNViiOI/view?usp=sharing