

## Patent Details for Verification\_NIRF2024

**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 2020 – 2022 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 NIRF2024 Ranking: **OVERALL**

Institute ID: **U-0085**

Provide below the Year-wise Count of Submitted Patent Data by the Institute (2020 to 2022) for NIRF2024 as applied in Discipline-specific:

Published_2020	Published_2021	Published_2022	Granted_2020	Granted_2021	Granted_2022	Total Published (2020-2022)	Total Granted (2020-2022)
0	92	63	2	39	16	155	57

### 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	362825-001	Granted	Dr. Saurabh Meshram, Dr. Sandeep Dharmadhikari	Lead Toxicity Detector and Water Cleaning Machine	Dr. Saurabh Meshram, Dr. Sandeep Dharmadhikari	362825-001	2022	362825-001	Guru Ghasidas Vishwavidyalaya	<a href="https://www.ggu.ac.in/Admin/Files/DepartmentDocument/08172022061139_3.4.3%20Patent%20published%202021-22.pdf">https://www.ggu.ac.in/Admin/Files/DepartmentDocument/08172022061139_3.4.3%20Patent%20published%202021-22.pdf</a>
2	US 11288954	Granted	KundanMeshram	Tracking and Alerting Traffic Management System Using IoT For Smart City	KundanMeshram	17/144,173	2022	11288954	Guru Ghasidas Vishwavidyalaya	<a href="https://ggu.ac.in/Admin/Files/DepartmentDocument/06292022033449_NAAC%203.4.3_2020-21_2%20Patent%20Publication.pdf">https://ggu.ac.in/Admin/Files/DepartmentDocument/06292022033449_NAAC%203.4.3_2020-21_2%20Patent%20Publication.pdf</a>
3	362692-001	Granted	Sonal Banchhor	Device to monitor theft by identifying salient object	Sonal Banchhor	362692-001	2022	362692-001	Guru Ghasidas Vishwavidyalaya	<a href="https://ggu.ac.in/Admin/Files/DepartmentDocument/08302022053145_NAAC%203.4.3%202021-22%20SB%20Patent-3.pdf">https://ggu.ac.in/Admin/Files/DepartmentDocument/08302022053145_NAAC%203.4.3%202021-22%20SB%20Patent-3.pdf</a>
4	2021104281	Granted	Satish Negi, Amit Baghel, Pushpendra Chandra, Vishnu Kant	A smart wearable device for early detection and identification of COVID-19 cases	Satish Negi, Amit Baghel, Pushpendra Chandra, Vishnu Kant	18.07.2021	11.05.2022	2021104281	Guru Ghasidas Vishwavidyalaya	<a href="https://ggu.ac.in/Admin/Files/DepartmentDocument/08182022062712_Amit%20Baghel.pdf">https://ggu.ac.in/Admin/Files/DepartmentDocument/08182022062712_Amit%20Baghel.pdf</a>
5	2021103085	Granted	Deepak Rathore	A Method for Reliable and Energy Efficient Data Transfer Routing Protocol in Wireless Body Area Networks	Deepak Rathore	03.06.2021	09.03.2022	2021103085	Guru Ghasidas Vishwavidyalaya	<a href="https://ggu.ac.in/Admin/Files/DepartmentDocument/06222022040127_Patent_Deepak_2.pdf">https://ggu.ac.in/Admin/Files/DepartmentDocument/06222022040127_Patent_Deepak_2.pdf</a>

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6	202121026466	Granted	Rohit Raja, Suraj Sharma, SC Srivastava	System And Method For Object Detection And Object Tracking For Traffic Surveillance	Rohit Raja, Suraj Sharma, SC Srivastava	14.06.2021	21.02.2022	389902	Guru Ghasidas Vishwavidyalaya	<a href="http://ggu.ac.in/Admin/Files/DepartmentDocument/08302022104823_patents%20certificate%2021-22.pdf">http://ggu.ac.in/Admin/Files/DepartmentDocument/08302022104823_patents%20certificate%2021-22.pdf</a>
7	201811040942	Granted	Rohit Raja	Method and System for Wirelessly Charging of an appliance	Rohit Raja	30.10.2018	2022	394722	Guru Ghasidas Vishwavidyalaya	<a href="http://ggu.ac.in/Admin/Files/DepartmentDocument/08302022104823_patents%20certificate%2021-22.pdf">http://ggu.ac.in/Admin/Files/DepartmentDocument/08302022104823_patents%20certificate%2021-22.pdf</a>
8	201941000049	Granted	Rohit Raja	Method and System for rendering a panoramic view of traffic to a driver of a vehicle	Rohit Raja	01.01.2019	03.01.2022	385899	Guru Ghasidas Vishwavidyalaya	<a href="http://ggu.ac.in/Admin/Files/DepartmentDocument/08302022104823_patents%20certificate%2021-22.pdf">http://ggu.ac.in/Admin/Files/DepartmentDocument/08302022104823_patents%20certificate%2021-22.pdf</a>
9	202021045472	Granted	Rohit Raja, Alok Kushwaha, Upasna Sinha, Agnivesh Pandey	An Unmanned Aerial Vehicle for Surveillance	Rohit Raja, Alok Kushwaha, Upasna Sinha, Agnivesh Pandey	19.10.2022	18.07.2022	401497	Guru Ghasidas Vishwavidyalaya	<a href="http://ggu.ac.in/Admin/Files/DepartmentDocument/08302022104823_patents%20certificate%2021-22.pdf">http://ggu.ac.in/Admin/Files/DepartmentDocument/08302022104823_patents%20certificate%2021-22.pdf</a>
10	20 2021 103 650.8	Granted	Rohit Raja	Traffic surveillance system	Rohit Raja	2022	44624	20 2021 103 650.8	Guru Ghasidas Vishwavidyalaya	<a href="http://ggu.ac.in/Admin/Files/DepartmentDocument/08302022104823_patents%20certificate%2021-22.pdf">http://ggu.ac.in/Admin/Files/DepartmentDocument/08302022104823_patents%20certificate%2021-22.pdf</a>
11	202022100777	Granted	Harish Rajak, Preeti Patel	A System for Synthesizing Novel Analogues of Nitrofurantoin Based Hydroxamic Acids as Anticancer Agents	Harish Rajak, Preeti Patel	10.02.2022	14.04.2022	DE 20 2022 100 777 U1	Guru Ghasidas Vishwavidyalaya	<a href="https://ggu.ac.in/Admin/Files/DepartmentDocument/08122022035848_German%20Patent_G11338DE%20certificate.pdf">https://ggu.ac.in/Admin/Files/DepartmentDocument/08122022035848_German%20Patent_G11338DE%20certificate.pdf</a>

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12	2021102935	Granted	Sushma Jaiswal	AN AUTOMATIC OPTIMIZED FEATURES SELECTION SYSTEM IN RETINOPATHY DETECTION USING ACTIVE EXTREME LEARNING MACHINE	Sushma Jaiswal	28.5.2021	20.4.2022	2021102935	Guru Ghasidas Vishwavidyalaya	<a href="https://www.ggu.ac.in/Admin/Files/DepartmentDocument/09022022113653_Australian_innovation_patent_SJ_organized.pdf">https://www.ggu.ac.in/Admin/Files/DepartmentDocument/09022022113653_Australian_innovation_patent_SJ_organized.pdf</a>
13	2022/07783 (South Africa patent)	Granted		A system for effectively predicting yield from plant leaf imagery		2022 (granted)			Guru Ghasidas Vishwavidyalaya	<a href="https://www.ggu.ac.in/Admin/Files/DepartmentDocument/01132023101834_NAAC%203.4.3%202021-22%20KM%20Patent%204.pdf">https://www.ggu.ac.in/Admin/Files/DepartmentDocument/01132023101834_NAAC%203.4.3%202021-22%20KM%20Patent%204.pdf</a>
14	2022106500 (German Patent)	Granted	Alpana Ram	A SOLID DISPERSION OF AN ANTI-FUNGAL DRUG IN GEL FORMULATION FOR IMPROVING BIOAVAILABILITY	Alpana Ram	21.11.2022	07.12.2022	A61K 9/10	Guru Ghasidas Vishwavidyalaya	<a href="https://ggu.ac.in/Admin/Files/DepartmentDocument/03242023091529_alpana%20ram%20patent.pdf">https://ggu.ac.in/Admin/Files/DepartmentDocument/03242023091529_alpana%20ram%20patent.pdf</a>
15	372498-001	Granted	Surendra H Bodakhe, ashmita Das, Shivani Behera	vision maze model for laboratory use	Surendra H Bodakhe, ashmita Das, Shivani Behera	12.10.2022	30.12.2022	372498-001	Guru Ghasidas Vishwavidyalaya	<a href="https://ggu.ac.in/Admin/Files/DepartmentDocument/03242023091133_bodakhe%20patent.pdf">https://ggu.ac.in/Admin/Files/DepartmentDocument/03242023091133_bodakhe%20patent.pdf</a>
16	370401-001	Granted	Surendra H Bodakhe	peripheral visual field testing maze in laboratory use	Surendra H Bodakhe	06.09.2022	23.12.2022	370401-001	Guru Ghasidas Vishwavidyalaya	<a href="https://ggu.ac.in/Admin/Files/DepartmentDocument/03242023103444_Peripheral%20vision.pdf">https://ggu.ac.in/Admin/Files/DepartmentDocument/03242023103444_Peripheral%20vision.pdf</a>
17	2231074077	Published	Dr.Sushma Jaiswal	A METHOD FOR DETECTING CANCEROUS CELLS IN ASYMPTOMATIC PATIENTS USING MONOCLONAL ANTIBODY DRUGS	Dr.Sushma Jaiswal	20-12-2022	30-12-2022	52/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>

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18	202241068394	Published	DEVESH PAL	Financial planning & management for salaried employee in an organisation along with strategies for tax savings for the benefits of both employee and employer in private sector	DEVESH PAL	28-11-2022	02-12-2022	48/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>
19	202221067464	Published	Dr. S.K. Lanjhiyana	DISSOLUTION IMPROVEMENT OF GLIMEPIRIDE AND OLANZAPINE USING KETOROLAC TROMETHAMINE	Dr. S.K. Lanjhiyana	23-11-2022	02-12-2022	48/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>
20	202241066834	Published	Dr. Sarika Agarwal	CRISIS MANAGEMENT MODEL FOR REFLECTIONS ON MARKETING EDUCATION SYSTEM'S TRANSFORMATION	Dr. Sarika Agarwal	21-11-2022	25-11-2022	47/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>
21	202221063771	Published	Dr. S.K. Lanjhiyana	FORMULATION AND ESTIMATION OF WEAKLY SOLUBLE DRUGS USING NEW NATURAL POLYMER	Dr. S.K. Lanjhiyana	08-11-2022	18-11-2022	46/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>
22	202221059300	Published	Dr. Upasana Sinha	MEDICAL IMAGE SEGMENTATION USING CONVOLUTIONAL NEURAL NETWORKS WITH AUTOENCODER		17-10-2022	21-10-2022	42/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>

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23	202231058937	Published	Dr. Alok Kumar Singh Kushwaha	An AI-powered portfolio management system for automated algorithmic trading & process optimization	Dr. Alok Kumar Singh Kushwaha	15-10-2022	21-10-2022	42/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>
24	202221056592	Published	Satendra Kumar Nirala	A METHOD OF VALUE ADDITION BY TRANSFORMING INDIAN PROPOLIS INTO ITS SILVER NANOPARTICLES AND THEIR THERAPEUTIC USES	Satendra Kumar Nirala	02-10-2022	21-10-2022	42/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>
25	202221054753	Published	Dr. Prasoona Soni	SYSTEM AND METHOD FOR CAPTURING GROUNDWATER POTENTIAL-ZONE INTEGRATING ARTIFICIAL NEURAL NETWORK AND GROUNDWATER INFLUENCING FACTORS	Dr. Prasoona Soni	23-09-2022	28-10-2022	43/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>
26	202241054444	Published	Dr. S.K. Lanjhiyana	DEVELOPING AND EVALUATING POLYHERBAL FORMULATION FOR METABOLIC DISORDER	Dr. S.K. Lanjhiyana	22-09-2022	30-09-2022	39/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>

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27	202241054376	Published	Dr. Sarika Agarwal	DEVELOP AI BASED MONITORING SYSTEM FOR STUDENT'S ATTENDANCE AND TEACHER'S FEEDBACK FOR DISTANCE EDUCATION INSTITUTIONS		22-09-2022	14-10-2022	41/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf</a>
28	202241054377	Published	Dr. Sarika Agarwal	REDESIGNING ROBOTICS BASED FRAUD DETECTION AND DUPLICACY TRACKING FOR AADHAR CARD AND PAN CARD IMPROVED	Dr. Sarika Agarwal	22-09-2022	14-10-2022	41/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf</a>
29	202241053333	Published	Dr. Nikita Kashyap	STABILITY AND EFFICIENCY OF ORGANIC TANDEM SOLAR CELLS WITH LOW-LOSS INTERCONNECTING LAYERS	Dr. Nikita Kashyap	19-09-2022	23-09-2022	38/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf</a>
30	202241052467	Published	Dr. S.K. Lanjhiyana	OPTIMIZATION AND CHARACTERIZATION OF POLYMERS FOR CARBINOXAMINE MALEATE	Dr. S.K. Lanjhiyana	14-09-2022	23-09-2022	38/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf</a>
31	202231051950	Published	Dr. S.K. Lanjhiyana	DEVELOPMENT OF NANO PARTICLE FORMULATION USING METHANOLIC EXTRACT OF WRIGHTIA TINCTORIA FOR ANTI-MICROBIAL THERAPY	Dr. S.K. Lanjhiyana	12-09-2022	16-09-2022	37/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf</a>

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32	202221051170	Published	Dr. KAMTA PRASAD NAMDEO	MACHINE LEARNING BASED APPROACH TO PREDICT THE VARIOUS MYELOSUPPRESSIVE AGENT THAT CAN BE USED ALONG WITH HYDROXYUREA IN IMPROVING THE CONDITION OF SICKLE CELL ANAEMIA	Dr. KAMTA PRASAD NAMDEO	07-09-2022	28-10-2022	43/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>
33	202221050938	Published	Dr. S.K. Lanjhiyana	GAMMA RADIATION EFFECTS ON LEAVES AND ROOTS IN MAIZE	Dr. S.K. Lanjhiyana	06-09-2022	16-09-2022	37/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>
34	202241050375	Published	Dr. S.K. Lanjhiyana	ANALYSING AND PROVIDING SOLUTIONS FOR A PHYSICO-CHEMICAL AND BACTERIOLOGICAL EFFECTS IN THE WATER	Dr. S.K. Lanjhiyana	03-09-2022	09-09-2022	36/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>
35	202221050363	Published	Dr. S.K. Lanjhiyana	PROCESS FOR COMPACTING ACETAMINOPHEN AND DEVELOPING A SUSTAINED-RELEASE FORMULATION	Dr. S.K. Lanjhiyana	02-09-2022	16-09-2022	37/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>
36	202221049661	Published	Onkar Kashyap	HEDYCHIUM CORONARIUM: A NOVEL THERAPEUTIC REMEDY AGAINST GLAUCOMA PROGRESSION	Onkar Kashyap	30-08-2022	11-11-2022	45/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>

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37	202211049075	Published	Dr. KAMTA PRASAD NAMDEO	ARTIFICIAL INTELLIGENCE BASED INTERVENTIONS FOR DEVELOPING STABILITY INDICATING METHOD AND VALIDATION OF ANTI-CANCER DRUG USING RP-HPLC METHOD	Dr. KAMTA PRASAD NAMDEO	28-08-2022	09-09-2022	36/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf</a>
38	202211048685	Published	Dr. S.K. Lanjhiyana	MACHINE LEARNING BASED APPROACH TO STUDY AND ANALYSE THE ANTIBACTERIAL EFFECTS OF SILVER NANOPARTICLES FOR HEALING DENTAL ISSUES	Dr. S.K. Lanjhiyana	26-08-2022	09-09-2022	36/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf</a>
39	202221048411	Published	Dr. S.K. Lanjhiyana	DISSOLUTION IMPROVEMENT OF GLIMEPIRIDE AND OLANZAPINE USING KETOROLAC TROMETHAMINE	Dr. S.K. Lanjhiyana	25-08-2022	09-09-2022	36/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf</a>
40	202221048369	Published	Dr. S.K. Lanjhiyana	FORMULATION AND ESTIMATION OF WEAKLY SOLUBLE DRUGS USING NEW NATURAL POLYMER	Dr. S.K. Lanjhiyana	25-08-2022	09-09-2022	36/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf</a>
41	202231047548	Published	Dr. S.K. Lanjhiyana	VULNERABILITIES OF CERVICAL CANCER AND ELECTRIC FIELD THERAPY TO DISRUPT CANCER	Dr. S.K. Lanjhiyana	22-08-2022	09-09-2022	36/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf</a>



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42	202231047425	Published	Dr. S.K. Lanjhiyana	VULNERABILITIES OF CERVICAL CANCER AND ELECTRIC FIELD THERAPY TO DISRUPT CANCER	Dr. S.K. Lanjhiyana	20-08-2022	09-09-2022	36/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>
43	202211046236	Published	Dr. S.K. Lanjhiyana	DEVELOPING A DRUG FOR ATOPIC DERMATITIS AND ALLERGIC DISORDERS USING CRISABOROLE AND VOCLOSPORINS	Dr. S.K. Lanjhiyana	13-08-2022	26-08-2022	34/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>
44	202221046050	Published	Dr. S.K. Lanjhiyana	A SYSTEM FOR DIAGNOSIS AND CLASSIFICATION OF BONE CANCER USING ARTIFICIAL INTELLIGENCE	Dr. S.K. Lanjhiyana	12-08-2022	09-09-2022	36/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>
45	202211045051	Published	Dr. S.K. Lanjhiyana	DEVELOPMENT AND CHARACTERIZE THE ROLE OF SMALL-MOLECULE ACCUMULATION IN DRUG EXPOSURE OF ANTIEPILEPTIC MEDICATIONS	Dr. S.K. Lanjhiyana	07-08-2022	19-08-2022	33/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>
46	202221044413	Published	Dr. S.K. Lanjhiyana	MOLECULAR IDENTIFICATION AND ANTIFUNGAL ACTIVITY OF ANTIMYCOTICS BY FARNESOL AND REDUCTION OF CANDIDA ALBICANS PATHOGENICITY IN FISSION YEAST	Dr. S.K. Lanjhiyana	03-08-2022	19-08-2022	33/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>

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47	202211044190	Published	Dr. S.K. Lanjhiyana	DESIGN OF SMART THIN FILM ACTUATORS FOR BIOMEDICAL APPLICATIONS AND INTERVENING THE COMPLICATIONS OF GENE MUTATIONS IN DIABETIC PATIENTS	Dr. S.K. Lanjhiyana	02-08-2022	26-08-2022	34/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>
48	202241042626	Published	Dr. S.K. Lanjhiyana	ARTIFICIAL INTELLIGENCE BASED DRUG DISCOVERY TECHNIQUE TO ANALYZE THE IMPACT OF EXISTING DRUGS FOR BRAIN TUMOURS AND PAVING WAY FOR NEW EFFICACIOUS DRUG	Dr. S.K. Lanjhiyana	26-07-2022	12-08-2022	32/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>
49	202221041568	Published	Dr. S.K. Lanjhiyana	A METHOD TO FORMULATE MULTI PARTICULATE FORMULATION USING POLYMERS FOR THE MANAGEMENT OF COLONIC CANCER.	Dr. S.K. Lanjhiyana	20-07-2022	01-09-2023	35/2023	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>
50	202241040993	Published	Dr. S.K. Lanjhiyana	THE DEVELOPMENT AND TESTING OF A FLOATING TABLETS CONTAINING DICLOFENAC SODIUM	Dr. S.K. Lanjhiyana	18-07-2022	19-08-2022	33/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>

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51	202221038454	Published	Dr. Rohit Raja	AN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING BASED AUTOMATIC PENALTY DEVICE AND ITS METHOD THEREOF	Dr. Rohit Raja	04-07-2022	02-09-2022	35/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf</a>
52	202221037431	Published	Dr. Jai Singh	RAPID ULTRASONICATIO N SYNTHESIS OF EFFICIENT AND STABLE CH3NH3PB0.90SN 0.10BR2.6CLO.4/P MMA PEROVSKITE QUANTUM DOTS THIN FILMS	Dr. Jai Singh	29-06-2022	15-07-2022	28/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf</a>
53	202241037149	Published	Dr. Atul Kumar Sahu	The tracking of items in logistics and supply chain using block chain technology	Dr. Atul Kumar Sahu	28-06-2022	08-07-2022	27/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf</a>
54	202221036766	Published	Ms. Gayatri Devi Biswal	ABUTILON INDICUM EXTRACT AND THEIR ANALGESIC ACTIVITY	Ms. Gayatri Devi Biswal	27-06-2022	15-07-2022	28/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf</a>
55	202241035945	Published	Dr. S.K. Lanjhiyana	BIOMEDICAL INTERVENTIONS FOR ANALYSING THE PROTEINS AND GENETIC FACTORS THAT ARE RESPONSIBLE FOR CAUSING CANCER	Dr. S.K. Lanjhiyana	22-06-2022	08-07-2022	27/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf</a>
56	202231031901	Published	Pankaj Kumar Gupta	FOUR-LOBED SWIRL-INDUCING PIPE	Pankaj Kumar Gupta	03-06-2022	15-09-2023	37/2023	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/qs-ranking/49_patents_with_status.pdf</a>

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57	202241026251	Published	Dr. Atul Kumar Sahu	SECURE THE SUPPLY CHAIN MANAGEMENT SYSTEM IN E-COMMERCE USING BLOCKCHAIN TECHNOLOGY	Dr. Atul Kumar Sahu	05-05-2022	13-05-2022	19/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>
58	202241023089	Published	Dr. Anoop Kumar Sahu	Automotive ERP System over Blockchain Technology	Dr. Anoop Kumar Sahu	19-04-2022	06-05-2022	18/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>
59	202221022529	Published	PARMENDRA BAJPAI	EFFECT OF B-SITE DISORDER ON THE FERRO ELECTRIC PROPERTIES OF BZT CERAMICS	PARMENDRA BAJPAI	16-04-2022	19-08-2022	33/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>
60	202211021299	Published	Robert Mark	ULTRAWIDEBAND RRDA WITH A BEVEL-SHAPED PATCH AND A METHOD OF DEVELOPMENT THEREOF	Robert Mark	09-04-2022	15-04-2022	15/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>
61	202241021032	Published	Mr. Nitin Kumar Sahu	Block chain Based Cloud Storage System	Mr. Nitin Kumar Sahu	07-04-2022	22-04-2022	16/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>
62	202221018493	Published	Dr. Atul Kumar Sahu,	GOVERNMENT FUND ALLOCATION & TRACKING SYSTEM OVER BLOCKCHAIN	Dr. Atul Kumar Sahu,	29-03-2022	29-04-2022	17/2022	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>
63	202241012143	Published	Satish Kumar Negi	A smart wearable device for early detection and identification of COVID-19 cases	Satish Kumar Negi	07-03-2022	25-03-2022	Dec-22	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>

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64	202231005989	Published	Dr.Rajesh Mahule	A LIGHTWEIGHT METHOD FOR PEER-TO-PEER ENERGY TRADING FRAMEWORK USING DIRECTED ACYCLIC GRAPH (DAG) BASED BLOCKCHAIN	Dr.Rajesh Mahule	04-02-2022	11-03-2022	Oct-22	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>
65	202221000273	Published	Vaibhav Kant Singh	METHOD FOR MIGRATION OF SESSIONS AMONG CIPHER MACHINES USING LAGRANGE INTERPOLATION	Vaibhav Kant Singh	03-01-2022	14-01-2022	Feb-22	GGV	<a href="http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf">http://new.ggu.ac.in/attachments/attachments/gs-ranking/49_patents_with_status.pdf</a>
66	202221035458	Published	Sonal Banchhor	High Performance geopolymer concrete and preparation method thereof	Sonal Banchhor	21.06.2022	08.07.2022	27/2022	Guru Ghasidas Vishwavidyalaya	<a href="https://ggu.ac.in/Admin/Files/DepartmentDocument/08302022053046_NAAC%203.4.3%202021-22%20SB%20patent-%201.pdf">https://ggu.ac.in/Admin/Files/DepartmentDocument/08302022053046_NAAC%203.4.3%202021-22%20SB%20patent-%201.pdf</a>
67	202241024364	Published	Sonal Banchhor	Method for the determination of flexural behaviour of reinforced concrete beam	Sonal Banchhor	25.04.2022	27.05.2022	21/2022	Guru Ghasidas Vishwavidyalaya	<a href="https://ggu.ac.in/Admin/Files/DepartmentDocument/08302022053118_NAAC%203.4.3%202021-22%20SB%20Patent-2.pdf">https://ggu.ac.in/Admin/Files/DepartmentDocument/08302022053118_NAAC%203.4.3%202021-22%20SB%20Patent-2.pdf</a>
68	202221017539	Published	Sonal Banchhor	A method to prepare an improved Calcium based alkali activated concrete	Sonal Banchhor	26.03.2022			Guru Ghasidas Vishwavidyalaya	<a href="https://ggu.ac.in/Admin/Files/DepartmentDocument/08302022052935_NAAC%203.4.3%202021-22%20SB%20Patent-4.pdf">https://ggu.ac.in/Admin/Files/DepartmentDocument/08302022052935_NAAC%203.4.3%202021-22%20SB%20Patent-4.pdf</a>
69	202211018041	Published	Shailendra Kumar, Alok Kushwaha	Development of AI-ENABLE Smart Drip water Irrigation System Using IOT Communication	Shailendra Kumar, Alok Kushwaha	28.03.2022	22.04.2022	16/2022	Guru Ghasidas Vishwavidyalaya	<a href="https://ggu.ac.in/Admin/Files/DepartmentDocument/08182022063734_alok%201.pdf">https://ggu.ac.in/Admin/Files/DepartmentDocument/08182022063734_alok%201.pdf</a>

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70	202211018032	Published	Shailendra Kumar, Alok Kushwaha	Development of Scene Perception System for Visually Impaired People Using IOT Based system	Shailendra Kumar, Alok Kushwaha	28.03.2022	15.04.2022	15/2022	Guru Ghasidas Vishwavidyalaya	<a href="https://ggu.ac.in/Admin/Files/DepartmentDocument/08182022063805_Alok%20.pdf">https://ggu.ac.in/Admin/Files/DepartmentDocument/08182022063805_Alok%20.pdf</a>
71	202241009908	Published	Manisha Dubey	TOURISM AS A DEVELOPMENT STRATEGY IN MICRO REGIONS OF INDIA	Manisha Dubey	24.02.2022	11.3.2022	Oct-22	Guru Ghasidas Vishwavidyalaya	<a href="https://www.ggu.ac.in/Admin/Files/DepartmentDocument/08302022113856_Patent_Prof.%20Manisha%20Dubay.pdf">https://www.ggu.ac.in/Admin/Files/DepartmentDocument/08302022113856_Patent_Prof.%20Manisha%20Dubay.pdf</a>
72	202241035945	Published	S.K. Lanjhiyana	Biomedical Interventions for analyzing the proteins and genetic factors that are responsible for causing cancer	S.K. Lanjhiyana	22.06.2022	08.07.2022	27/2022	Guru Ghasidas Vishwavidyalaya	<a href="https://ggu.ac.in/Admin/Files/DepartmentDocument/08232022112648_Patent_Dr%20Lanjhiyana.pdf">https://ggu.ac.in/Admin/Files/DepartmentDocument/08232022112648_Patent_Dr%20Lanjhiyana.pdf</a>
73	202241006304	Published	Harish Rajak	Design and Biological study on new Anti-inflammatory hybrid derivatives	Harish Rajak	06.02.2022	11.02.2022	Jun-22	Guru Ghasidas Vishwavidyalaya	<a href="https://ggu.ac.in/Admin/Files/DepartmentDocument/08292022050929_06.02.2022.pdf">https://ggu.ac.in/Admin/Files/DepartmentDocument/08292022050929_06.02.2022.pdf</a>
74	202241006224	Published	Harish Rajak	A framework to measure the public health interventions	Harish Rajak	05.02.2022	11.02.2022	Jun-22	Guru Ghasidas Vishwavidyalaya	<a href="https://ggu.ac.in/Admin/Files/DepartmentDocument/08292022050749_05.02.2021.pdf">https://ggu.ac.in/Admin/Files/DepartmentDocument/08292022050749_05.02.2021.pdf</a>
75	202141059326	Published	Harish Rajak	A Machine Learning Model to Predict the Severity of Cancer and to Decrease Surgical Treatment	Harish Rajak	20.12.2021	04.02.2022	May-22	Guru Ghasidas Vishwavidyalaya	<a href="https://ggu.ac.in/Admin/Files/DepartmentDocument/08292022051308_20.12.2021.pdf">https://ggu.ac.in/Admin/Files/DepartmentDocument/08292022051308_20.12.2021.pdf</a>
76	202141057716	Published	Anoop Kumar Sahu	IMPACT ON JOB SATISFACTION IN COMPANY/INDUSTRY	Anoop Kumar Sahu	11.12.2021	28.01.2022	Apr-22	Guru Ghasidas Vishwavidyalaya	<a href="https://www.ggu.ac.in/Admin/Files/DepartmentDocument/08302022104925_Dr.%20Anoop%20Kumar%20Sahu%20Title%20of%20the%20invention%20IMPACT%20ON%20JOB%20SATISFACTION%20IN%20COMPANYINDUSTRY%2028.01.2022.pdf">https://www.ggu.ac.in/Admin/Files/DepartmentDocument/08302022104925_Dr.%20Anoop%20Kumar%20Sahu%20Title%20of%20the%20invention%20IMPACT%20ON%20JOB%20SATISFACTION%20IN%20COMPANYINDUSTRY%2028.01.2022.pdf</a>

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77	202221052604	Published	Hem Prabha, Chhaya Nanda, Nidhi Lohitkar, Pratima Dutta, Satendra Kumar Nirala, Dr Monika Bhadauria	VALUE ADDITION OF CHICKEN EGGS: A METHOD TO SUSTAIN EXTERNAL AND INTERNAL QUALITY AND TO ENHANCE SHELF LIFE OF EGGS BY EXTERNAL COATING OF COMBINATION OF A SOLUTION OF SHELLAC AND PROPOLIS THEREOF	Satendra Kumar Nirala, Dr Monika Bhadauria	15.09.2022	21.10.2022	202221052604	Guru Ghasidas Vishwavidyalaya	<a href="https://ggu.ac.in/Admin/Files/DepartmentDocument/12132022080241_21.10.2022.pdf">https://ggu.ac.in/Admin/Files/DepartmentDocument/12132022080241_21.10.2022.pdf</a>
78	202241059892	Published	Sonal Banchhor	DEVELOPMENT OF ECO-FRIENDLY SELF-CURING CONCRETE FOR A FUTURISTIC TECHNOLOGY	Sonal Banchhor	20.10.2022	28.10.2022	202241059892	Guru Ghasidas Vishwavidyalaya	<a href="https://ggu.ac.in/Admin/Files/DepartmentDocument/12132022080857_28.10.2022.pdf">https://ggu.ac.in/Admin/Files/DepartmentDocument/12132022080857_28.10.2022.pdf</a>
79	202021046493	Published	Dilipkumar Pal, Khusboo Raj	SYNTHESIS OF DERIVATIVES OF 4, 5-DIMETHYL-1-PHENYL-1H-IMIDAZOLE RELATED COMPOUNDS AND THEIR EVALUATION	Dilipkumar Pal, Khusboo Raj	25.10.2020	29.04.2022	440468	Guru Ghasidas Vishwavidyalaya	<a href="https://ggu.ac.in/Admin/Files/DepartmentDocument/12132022081053_29.04.2022.pdf">https://ggu.ac.in/Admin/Files/DepartmentDocument/12132022081053_29.04.2022.pdf</a>

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80	2021104045	Granted	Gupta, Aditya Kumar; Devi, G. Radha; Kumari, Pilli Lalitha; Kumar, D. Sai; Krishna, B. Hari; Vani, G.; Jiddu, Jaylakshmi; Mahapatra, Sakuntala; Satpathy, Rabinarayan; Jaiswal, Tarun; Jaiswal, Sushma and S., Ashwini	FAILURE NODES DETECTION AND RECOVERY SYSTEM IN CLOUD COMPUTING TO IMPROVE	Gupta, Aditya Kumar; Devi, G. Radha; Kumari, Pilli Lalitha; Kumar, D. Sai; Krishna, B. Hari; Vani, G.; Jiddu, Jaylakshmi; Mahapatra, Sakuntala; Satpathy, Rabinarayan; Jaiswal, Tarun; Jaiswal, Sushma and S., Ashwini	11-07-2021	25-08-2021	2021104045	GGV Bilaspur	<a href="http://pericles.ipaaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021104045">http://pericles.ipaaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021104045</a>



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81	2021105525	Granted	Kalpana, G.; Maragani, Satish Kumar; L., Sathish Kumar.; Vasavi, G.; Rao, Chennamsetty Madhusudhana; Rani, Kalpana, G.; Maragani, Satish Kumar; L., Sathish Kumar.; Vasavi, G.; Rao, Chennamsetty Madhusudhana; Rani, V. Vasudha; Kumar, K. R. N. Kiran; Sarangi, Sanjaya Kumar; Agrawal, Sandeep Kumar; Senthilmurugan, S.; Jaiswal, Tarun and Jaiswal, Sushma	MOBILE USER TRAJECTORY PREDICTION SYSTEM WITH EXTREME MACHINE LEARNING ALGORITHM	Kalpana, G.; Maragani, Satish Kumar; L., Sathish Kumar.; Vasavi, G.; Rao, Chennamsetty Madhusudhana; Rani, Kalpana, G.; Maragani, Satish Kumar; L., Sathish Kumar.; Vasavi, G.; Rao, Chennamsetty Madhusudhana; Rani, V. Vasudha; Kumar, K. R. N. Kiran; Sarangi, Sanjaya Kumar; Agrawal, Sandeep Kumar; Senthilmurugan, S.; Jaiswal, Tarun and Jaiswal, Sushma	15-08-2021	27-10-2021	2021105525	GGV Bilaspur	<a href="http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021105525">http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021105525</a>

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82	2021103446	Granted	Mummana, Satyanarayana; T., Suma; Saveetha, V.; Grace, R. Kingsy; Anantha, N. Lakshmipathi; Rajasekaran, P.; Satpathy, Rabinarayan; Muni, T. Vijay; Sharma, Ashwini; Aravinda, N. L.; Jaiswal, Tarun and Jaiswal, Sushma	ENERGY EFFICIENT WIRELESS SENSOR NETWORK WITH OPTIMIZED CLUSTERING AND COMPRESSIVE SAMPLING	Mummana, Satyanarayana; T., Suma; Saveetha, V.; Grace, R. Kingsy; Anantha, N. Lakshmipathi; Rajasekaran, P.; Satpathy, Rabinarayan; Muni, T. Vijay; Sharma, Ashwini; Aravinda, N. L.; Jaiswal, Tarun and Jaiswal, Sushma	18-06-2021	22-09-2021	2021103446	GGV Bilaspur	<a href="http://pericles.ipaaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021103446">http://pericles.ipaaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021103446</a>
83	2021103249	Granted	Ahmad, Shahnawaz; Mehfuz, Shabana; Vetriselvi, T.; Anveshini, Dumala; Senapati, Manas Ranjan; Raghavarao, Y. V.; Satpathy, Rabinarayan; Devaraju, S.; Srinivas, Mandadi; Jaiswal, Sushma; Jaiswal, Tarun and G., Pavithra	A NOVEL MULTI-LEVEL OPTIMIZATION FOR TASK SCHEDULING AND LOAD BALANCING IN CLOUD	Ahmad, Shahnawaz; Mehfuz, Shabana; Vetriselvi, T.; Anveshini, Dumala; Senapati, Manas Ranjan; Raghavarao, Y. V.; Satpathy, Rabinarayan; Devaraju, S.; Srinivas, Mandadi; Jaiswal, Sushma; Jaiswal, Tarun and G., Pavithra	10-06-2021	08-09-2021	2021103249	GGV Bilaspur	<a href="http://pericles.ipaaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021103249">http://pericles.ipaaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021103249</a>

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84	2021103132	Granted	Badashah, Syed Jahangir; Naidu, S.Mani; Senapati, Manas Ranjan; Garladinne, Ravikanth; Khamuruddeen, Shaik; Murthy, Namuduri SSR; Rammurthy, D.; Gagnani, Lokesh P; Satpathy, Rabinarayan; Jaiswal, Tarun; Jaiswal, Sushma and Reddy, A.V.Sudhakara	A NOVEL MULTI-LEVEL OPTIMIZATION FOR TASK SCHEDULING AND LOAD BALANCING IN CLOUD	"Badashah, Syed Jahangir; Naidu, S.Mani; Senapati, Manas Ranjan; Garladinne, Ravikanth; Khamuruddeen, Shaik; Murthy, Namuduri SSR; Rammurthy, D.; Gagnani, Lokesh P; Satpathy, Rabinarayan; Jaiswal, Tarun; Jaiswal, Sushma and Reddy, A.V.Sudhakara"	05-06-2021	22-09-2021	2021103132	GGV Bilaspur	<a href="http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021103132">http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021103132</a>
85	2021102961	Granted	Jaiswal, Sushma ; Achanta, Sampath Dakshina Murthy ; Ziya Gous, Mahmad ; Kumar, K. Kranthi ; Lalitha Kumari, Pilli ; Nandikolla, Supriya ; Madhusudhana Rao, G. ; Jaiswal, Tarun ; Rao, P. Sambasiva ; Suneela, B. ; Gudivada, Vijaya Kumar ; Dutta, Pijush	AN IoT BASED SYSTEM FOR TRACING AND RECOGNIZING AN OBJECT	Jaiswal, Sushma ; Achanta, Sampath Dakshina Murthy ; Ziya Gous, Mahmad ; Kumar, K. Kranthi ; Lalitha Kumari, Pilli ; Nandikolla, Supriya ; Madhusudhana Rao, G. ; Jaiswal, Tarun ; Rao, P. Sambasiva ; Suneela, B. ; Gudivada, Vijaya Kumar ; Dutta, Pijush	29-05-2021	30-06-2021	2021102961	GGV Bilaspur	<a href="http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021102961">http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021102961</a>

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86	2021102581	Granted	Sarwade, Prakash Pralhad ; Jaiswal, Sushma ; J., Praveen ; Upadhyay, Mukesh ; Yadav, Ruchi ; Lakwal, Vijay Ramkisan ; Rajput, Aishwarya Premsing ; Ezhilselvi, R. Indra Mary ; Kumar, Manish ; Thimmaraju, Pavan Kumar ; Buttar, Ahmed Mateen	A NOVEL VLSI BASED ARCHITECTURE FOR STROKE DETECTION USING OPTIMIZED RESOURCE ALLOCATION	Sarwade, Prakash Pralhad ; Jaiswal, Sushma ; J., Praveen ; Upadhyay, Mukesh ; Yadav, Ruchi ; Lakwal, Vijay Ramkisan ; Rajput, Aishwarya Premsing ; Ezhilselvi, R. Indra Mary ; Kumar, Manish ; Thimmaraju, Pavan Kumar ; Buttar, Ahmed Mateen	14-05-2021	08-07-2021	2021102581	GGV Bilaspur	<a href="http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021102581">http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021102581</a>
87	2021102309	Granted	Jaiswal, Tarun ; Jaiswal, Sushma ; Raghuram, K.S. ; Sreenivasulu, Mude ; Kumar, M.Anjan ; Kalarani, S. ; Sumaiya, Sk. ; Mahalaxmi, U.S.B.K. ; Bhuvaneswari, C. ; Suneela, B ; Ahmad, Shahnawaz ; Selvakanmani, S.	AN EFFICIENT IRIS RECOGNITION SYSTEM WITH COMPLETE LOCAL TERNARY PATTERN FEATURE EXTRACTION AND CLASSIFICATION METHOD	Jaiswal, Tarun ; Jaiswal, Sushma ; Raghuram, K.S. ; Sreenivasulu, Mude ; Kumar, M.Anjan ; Kalarani, S. ; Sumaiya, Sk. ; Mahalaxmi, U.S.B.K. ; Bhuvaneswari, C. ; Suneela, B ; Ahmad, Shahnawaz ; Selvakanmani, S.	30-04-2021	16-06-2021	2021102309	GGV Bilaspur	<a href="http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021102309">http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021102309</a>

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88	2021101904	Granted	Haque, M. Akiful ; Jaiswal, Sushma ; S., Prathik ; Balachander, Bhuvaneswari ; Kumar, T. C. H. Anil ; Ranjani, R. ; Srilalitha, Sapram ; Sharma, Deepankar ; D., Maheswari. ; Ohmshankar, S.	ARTIFICIAL NEURAL NETWORK BASED EARLY DIAGNOSIS OF DIABETES MELLITUS	Haque, M. Akiful ; Jaiswal, Sushma ; S., Prathik ; Balachander, Bhuvaneswari ; Kumar, T. C. H. Anil ; Ranjani, R. ; Srilalitha, Sapram ; Sharma, Deepankar ; D., Maheswari. ; Ohmshankar, S.	14-04-2021	19-05-2021	2021101904	GGV Bilaspur	<a href="http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021101904">http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021101904</a>
89	2021101744	Granted	Shrivastava, Anurag ; Singh, Ashutosh Kumar ; Jaiswal, Sushma ; Jain, Jay Kumar ; Sharma, Amit Kumar ; Bolukonda, Deepthi ; Reddy, Kamasani Chandrasekhar ; Chaurasia, Pawan Kumar ; Ilyas, Md ; Raghuvanshi, Rajeev ; Verma, Ashwin	THE WASTE SEGREGATION METHOD USING MACHINE LEARNING TECHNIQUE	Shrivastava, Anurag ; Singh, Ashutosh Kumar ; Jaiswal, Sushma ; Jain, Jay Kumar ; Sharma, Amit Kumar ; Bolukonda, Deepthi ; Reddy, Kamasani Chandrasekhar ; Chaurasia, Pawan Kumar ; Ilyas, Md ; Raghuvanshi, Rajeev ; Verma, Ashwin	04-06-2021	19-05-2021	2021101744	GGV Bilaspur	<a href="http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021101744">http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021101744</a>

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90	2021101172	Granted	Jaiswal, Sushma ; R., Sridevi ; TOOMULA, SRILATHA ; Raj Singh, Shiv ; Arora, Tarun Kumar ; Kumar Chaubey, Pavan ; Jaiswal, Tarun ; Agarwal, Seema ; Sathish, A. ; Vatchala, S.	DESIGN AND IMPLEMENTATION OF CONVOLUTION NEURAL NETWORK ON EDGE COMPUTING SMART PHONE FOR HUMAN ACTIVITY RECOGNITION	Jaiswal, Sushma ; R., Sridevi ; TOOMULA, SRILATHA ; Raj Singh, Shiv ; Arora, Tarun Kumar ; Kumar Chaubey, Pavan ; Jaiswal, Tarun ; Agarwal, Seema ; Sathish, A. ; Vatchala, S.	04-03-2021	21-04-2021	2021101172	GGV Bilaspur	<a href="http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021101172">http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021101172</a>
91	2021101174	Granted	Jaiswal, Sushma ; Kamal, Neel ; Misra, Anuranjan ; Priyadharsini, M. ; Kumar, Avinash ; Chaudhari, Shrikant Ulhas ; Patil, Mallikarjunagouda ; Raghuvanshi, Rajeev ; Krishnamoorthy, R. ; Bharamagoudar, Geeta R.	SOLAR PV POWER INTEGRATED SMART GRID BASED ENERGY MANAGEMENT SYSTEM	Jaiswal, Sushma ; Kamal, Neel ; Misra, Anuranjan ; Priyadharsini, M. ; Kumar, Avinash ; Chaudhari, Shrikant Ulhas ; Patil, Mallikarjunagouda ; Raghuvanshi, Rajeev ; Krishnamoorthy, R. ; Bharamagoudar, Geeta R.	05-03-2021	21-04-2021	2021101174	GGV Bilaspur	<a href="http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021101174">http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021101174</a>
92	2021103573	Granted	Dheeraj Ahirwar, R. N. Patil, DN Jhade, Bharti Ahirwar, Anish Chandi and Mohit	Formulation Derived from Phytoconstituents for Treatment of Diabetes	Dheeraj Ahirwar, R. N. Patil, DN Jhade, Bharti Ahirwar, Anish Chandi and Mohit	01-01-2019	21-07-2021	2021103573	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06222022045257_BA-2021103573-Innovation%20Patent%20%20Certificate%20(1).pdf">https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06222022045257_BA-2021103573-Innovation%20Patent%20%20Certificate%20(1).pdf</a>

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93	2021103481	Granted	Dheeraj Ahirwar, Sandeep Gupta, DN Jhade, Bharti Ahirwar, Ritesh Jain and Mohit	Contraceptive Composition	Dheeraj Ahirwar, Sandeep Gupta, DN Jhade, Bharti Ahirwar, Ritesh Jain and Mohit		04-08-2021	2021103481	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06222022045035_BA-2021103481-Innovation%20Patent%20%20Certificate%20(1).pdf">https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06222022045035_BA-2021103481-Innovation%20Patent%20%20Certificate%20(1).pdf</a>
94	2021106458	Granted	Utpal Jana, Guru Prasad Mohanta, Dheeraj Ahirwar, Bharti Ahirwar, Dibyajyoti Saha, Babita Sarangi	Nebivolol loaded poly (D, L-Lactic-co- glycolic acid) or (PLGA) Nanoparticles for high blood pressure	Utpal Jana, Guru Prasad Mohanta, Dheeraj Ahirwar, Bharti Ahirwar, Dibyajyoti Saha, Babita Sarangi		20-10-2021	2021106458	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06222022044758_Patent-BA-PLGA.pdf">https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06222022044758_Patent-BA-PLGA.pdf</a>
95	201821038243	Granted	Vivekananda Mandal, Kavi Bhushan Singh Chouhan, Rajendra Mehta, Roshni Tandey, Kamal Kumar Sen	A SOLVENT FREE MICROWAVE ASSISTED EXTRACTION OF VOLATILE OIL FROM MENTHA SPICATA LEAVES	Vivekananda Mandal, Kavi Bhushan Singh Chouhan, Rajendra Mehta, Roshni Tandey, Kamal Kumar Sen	09-10-2018	29-07-2021	373262	Department of Pharmacy, GGV	<a href="https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06222022051548_patent_kavi.pdf">https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06222022051548_patent_kavi.pdf</a>
96	201721025305	Granted	Sant Kumar Verma, Suresh Thareja, Manoj Kumar, T R Bhardwaj, Akhlesh Kumar Jain,	NOVEL 5-[4-(2-BIPHENYL-4-YL-2-OXOETHOXY)-BENZYLIDENE]-THIAZOLIDINE-2,4-DIONES, THEIR SYNTHESIS AND USES THEREOF	Guru Ghasidas University	17-07-2017	25-11-2021	382675	Department of Pharmacy, GGV	<a href="https://www.ggu.ac.in/Admin/Files/DepartmentDocument/12252022093348_Patent-AKJ.pdf">https://www.ggu.ac.in/Admin/Files/DepartmentDocument/12252022093348_Patent-AKJ.pdf</a>
97	2021102807	Granted	Kundan Meshram	A DEVICE AND METHOD TO IMPROVE THE EFFICIENCY OF CONSTRUCTION SITES USING IOT ENABLED DIGITAL TWINS	Kundan Meshram	24-05-2021	30-06-2021	2021102807	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="http://pericles.ipaustralia.gov.au/ols/auspat/quickSearch.do?queryString=2021102807&amp;resultsPerPage=10">http://pericles.ipaustralia.gov.au/ols/auspat/quickSearch.do?queryString=2021102807&amp;resultsPerPage=10</a>
98	2021100780	Granted	Dr. Alok Kumar Singh Kushwaha	BATHROOM SYSTEM AND METHOD	Dr. Alok Kumar Singh Kushwaha	09-02-2021	22-04-2021	2021100780	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021100780">http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021100780</a>

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99	2021101385	Granted	Dr. Alok Kumar Singh Kushwaha	DELICATE VIBRATORY INSTRUMENT FOR NEONATES ORAL MOTOR SIMULATION	Dr. Alok Kumar Singh Kushwaha	17-03-2021	13-05-2021	2021101385	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021101385">http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021101385</a>
100	2021102958	Granted	Dr. Alok Kumar Singh Kushwaha	A SYSTEM AND METHOD FOR PREVENTING CORONA VIRUS TRANSMISSION	Dr. Alok Kumar Singh Kushwaha	29-05-2021	12-08-2021	2021102958	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021102958">http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021102958</a>
101	2020104385	Granted	Pinjarkar, Latika; Bonde, Padma; Mohiddin, Md. Khaja; Kumar Nagwanshi, Kapil; Verma, Upendra; Rani, Shilpa; Kumar, Sandeep; Kumar Soni, Anil; Raja, Rohit; Singh Kushwaha, Alok Kumar; Chandra Srivastava, Sharad	A SYSTEM AND A METHOD FOR AUTOMATED IRRIGATION USING INTERNET OF THINGS	Bonde, Padma DR; Chandra Srivastava, Sharad DR; Kumar Nagwanshi, Kapil DR; Kumar Soni, Anil DR; Kumar, Sandeep DR; Mohiddin, Md. Khaja; Pinjarkar, Latika DR; Raja, Rohit DR; Rani, Shilpa; Singh Kushwaha, Alok Kumar DR; Verma, Upendra DR	29-12-2020	03-03-2021	2020104385	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="#">IP Australia: AusPat Application Details</a>



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102	2021101073	Granted	Marriwala, Nikhil; Vohra, Anil; Sharma, Reena; Rathore, Deepak; Bachan, P.; Panda, Sunita; Anarase, Deepali Shantilal; Shanbhog, Manjula; Jodha, Rajshree; Bhandari, Rahul; Sampath, A. K.; Ghuge, Aditya Chandrakant; Panday, Krishna	ADAPTIVE CLUSTERING BASED ENERGY EFFICIENT SYSTEM FOR INTELLIGENT ROUTING IN WIRELESS SENSOR NETWORKS	Anarase, Deepali Shantilal; Bachan, P.; Bhandari, Rahul; Ghuge, Aditya Chandrakant; Jodha, Rajshree; Marriwala, Nikhil DR; Panda, Sunita; Panday, Krishna; Rathore, Deepak; Sampath, A. K.; Shanbhog, Manjula; Sharma, Reena; Vohra, Anil	27-02-2021	14-04-2021	2021101073	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="#">IP Australia: AusPat Application Details</a>
103	AU 2021100341 A4	Granted	Dr. Santosh Soni	HEALTH RELATED CRISIS READY PLAN THROUGH WIRELESS SENSOR NETWORK AND THE CLOUD COMPUTING AT POPULATED SPOTS	Dr. Santosh Soni	19-01-2021	15-04-2021	2021100341	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021100341">http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021100341</a>
104	2021102314	Granted	Dr. Amit Kumar Dewangan	AN INTERNET OF THINGS BASED SMART PARKING SYSTEM AND IT'S METHOD THEREOF	Dr. Amit Kumar Dewangan	01-05-2021	02-06-2021	2021102314	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="http://pericles.ipaustralia.gov.au/ols/auspat/quickSearch.do?queryString=++2021104218&amp;resultsPerPage=">http://pericles.ipaustralia.gov.au/ols/auspat/quickSearch.do?queryString=++2021104218&amp;resultsPerPage=</a>
105	2020103853	Granted	Dr Rohit Raja	DYNAMIC DIGITAL TWIN SYSTEM AND A METHOD OF OPERATING THEREOF	Dr Rohit Raja	02-12-2020	27-01-2021	2020103853	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2020103853">http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2020103853</a>

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106	2020104385	Granted	Dr Rohit Raja	A SYSTEM AND A METHOD FOR AUTOMATED IRRIGATION USING INTERNET OF THINGS	Dr Rohit Raja	29-12-2020	03-03-2021	2020104385	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2020104385">http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2020104385</a>
107	2021100059	Granted	Dr Rohit Raja	SELF-CLEANING AND GERM-KILLING REVOLVING PUBLIC TOILET FOR COVID	Dr Rohit Raja	06-01-2021	10-03-2021	2021100059	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021100059">http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021100059</a>
108	2021100285	Granted	Dr Rohit Raja	NOVEL 3D PRINTED BIONIC PROSTHETIC LEG	Dr Rohit Raja	17-Jan-2021	07-04-2021	2021100285	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021100285">http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021100285</a>
109	2021102314	Granted	Dr Rohit Raja	AN INTERNET OF THINGS BASED SMART PARKING SYSTEM AND ITS METHOD THEREOF	Dr Rohit Raja	01-05-2021	02-06-2021	2021102314	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021102314">http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021102314</a>
110	2021101385	Granted	Dr Rohit Raja	DELICATE VIBRATORY INSTRUMENT FOR NEONATES ORAL MOTOR SIMULATION	Dr Rohit Raja	17-03-2021	28-04-2021	2021101385	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021101385">http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021101385</a>
111	2021102958	Granted	Dr Rohit Raja	A SYSTEM AND METHOD FOR PREVENTING CORONA VIRUS TRANSMISSION	Dr Rohit Raja	29-05-2021	28-07-2021	2021102958	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021102958">http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021102958</a>
112	2021106885	Granted	Dr Rohit Raja	AN EMOTION DETECTION SYSTEM AND METHOD USING PATTERN RECOGNITION	Dr Rohit Raja	24-08-2021	17-11-2021	2021106885	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021106885">http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021106885</a>
113	202111002128	Granted	Dr Rohit Raja	FACE EMOTIONS RECOGNITION BASED ON DEEP LEARNING FOR SMART AND SECURED CHILD CARE TAKER	Dr Rohit Raja	29-01-2021	30-12-2021	385681	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="https://ipindiaservices.gov.in/PublicSearch/PublicationSearch/ApplicationStatus">https://ipindiaservices.gov.in/PublicSearch/PublicationSearch/ApplicationStatus</a>

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114	2020104031	Granted	Prof T.V. Arjunan	TWISTED MICRO-FINS EVACUATED TUBE SOLAR AIR HEATER	Pankaj Kumar Gupta, Prof. T.V. Arjunan, BIN, SOPIAN DATO' TS DR KAMARUZZAMAN, YAHYA., M.SC .DR. IR. M. , M.M. Matheswaran, S . Vijayan	12-12-2020	10-02-2021	2020104031	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="https://www.patentguru.com/assignee/yahya-m-sc-dr-ir-m-prof">https://www.patentguru.com/assignee/yahya-m-sc-dr-ir-m-prof</a>
115	2021100087	Granted	Arjunan, T.V.; Patanwar, Pradeep; Bhaskar, Manish; Kumar Gupta, Pankaj; Jangde, Prashant; Singh Thakur, Anurag; Vijayan, S.; Matheswaran, M.M.; Veerakumar, A.; Venkatramanan, R. and Seenivasan, D.	LONGITUDINAL FINS EVACUATED TUBE SOLAR AIR HEATER	Prof. T.V. Arjunan, Manish Bhaskar, Prashant Jangde, D. Seenivasan,. R. Venkatramanan, A. Veera Kumar, Gupta Kumar Pankaj, M.M. Matheswaran, Pradeep Patanwar, Anurag Sing Thakur and S. Vijayan	01-07-21	31-03-2021	2021100087	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="https://ggu.ac.in/Admin/Files/DepartmentDocument/12062022040606_Innovation_Patent_Certificate_31-03-2021.pdf">https://ggu.ac.in/Admin/Files/DepartmentDocument/12062022040606_Innovation_Patent_Certificate_31-03-2021.pdf</a>
116	2021100439	Granted	Chandra Srivastava, Sharad; Srivastava, Sumit; Sharaff, Aakanksha; Sharma, Suraj; Shrivas, Akhilesh Kumar; Saritha, S. K.; Tandan, S. R.; Jain, Swati; Sinha, Upasana; Nayyar, Anand and Sharma, Abhishek	HOME AUTOMATION BASED ON USER DETECTION USING INTERNET OF THINGS	Chandra Srivastava, Sharad; Srivastava, Sumit; Sharaff, Aakanksha; Sharma, Suraj; Shrivas, Akhilesh Kumar;	23-01-2021	07-04-2021	2021100439	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="https://ggu.ac.in/Admin/Files/DepartmentDocument/06252022023555_439_patent.pdf">https://ggu.ac.in/Admin/Files/DepartmentDocument/06252022023555_439_patent.pdf</a>

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117	2021102315	Granted	Tiwaari, Jeetendra Kumar; Srivastava, Sumit; Chande, Manoj Kumar; Thakur, Mukesh; Deepak, S. S. K.; Sahu, Dileshwar Kumar; Borkar, Pravin Kumar; Srivastava, Sharad Chandra and Tiwari, Shrikant	METHOD AND APPARATUS FOR AIR FILTRATION FOR EXHAUST SILENCER OF A VEHICLE	Tiwaari, Jeetendra Kumar; Srivastava, Sumit; Chande, Manoj Kumar; Thakur, Mukesh; Deepak, S. S. K.; Sahu, Dileshwar Kumar; Borkar, Pravin Kumar; Srivastava, Sharad Chandra and Tiwari, Shrikant	01-05-2021	23-06-2021	2021102315	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="https://ggu.ac.in/Admin/Files/DepartmentDocument/06252022023735_Innovation_Patent_Certificate_23-06-2021.pdf">https://ggu.ac.in/Admin/Files/DepartmentDocument/06252022023735_Innovation_Patent_Certificate_23-06-2021.pdf</a>
118	2020102636	Granted	Alok Kumar Singh Kushwaha, Rohit Raja	SBDA-Secured Bra for Women Safety: Smart and Secured Bra for Women Safety Based on Deep Learning Algorithm	Alok Kumar Singh Kushwaha	10-08-2020	26-11-2020	2020102636	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="https://www.ipaustralia.gov.au/patents/understanding-patents/searching-patents">https://www.ipaustralia.gov.au/patents/understanding-patents/searching-patents</a>
119	1530/MUM/2013	Granted	Ahirwar Bharti	Method of preparation of herbal contraceptives	Ahirwar Bharti	26-04-2013	20-03-2020	335400	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="https://ipindiaservices.gov.in/Patent_search">https://ipindiaservices.gov.in/Patent_search</a>
120	2021101077	Published	Dr Amit Kumar Chandanan, Dr Vikas Kumar Pandey	SMART SHUTTER ASSEMBLY SYSTEM	Dr Amit Kumar Chandanan		29-04-2021	Australian Govt	GGV Bilaspur	<a href="https://pericles.ipaustralia.gov.au/ols/auspat/quickSearch.do?queryString=2021101077&amp;resultsPerPage=">https://pericles.ipaustralia.gov.au/ols/auspat/quickSearch.do?queryString=2021101077&amp;resultsPerPage=</a>
121	2021100439	Published	Dr Akhilesh Kumar Shrivastava	Home Automation based on User Detection using Internet of Things	Dr Akhilesh Kumar Shrivastava		07-04-2021	Australian Govt	GGV Bilaspur	<a href="https://www.ipaustralia.gov.au/patents">https://www.ipaustralia.gov.au/patents</a>

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122	202141056431	Published	DR.SUSHMA JAISWAL	A SYSTEM BASED ON THERMAL IMAGE PROCESSING FOR SUBCUTANEOUS DETECTION OF VEINS, BONES AND METHOD THEREOF	DR.SUSHMA JAISWAL	06-12-2021	10-12-2021	50/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
123	202141056911	Published	DR.SUSHMA JAISWAL	SENSOR BASED INTELLIGENT WEARABLE DEVICE TO MONITOR BLOOD GLUCOSE LEVELS OF A DIABETES PATIENT AND GENERATE INSUARTIFICIAL PANCREAS	DR.SUSHMA JAISWAL	07-12-2021	10-12-2021	50/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
124	202141056091	Published	DR.SUSHMA JAISWAL	SENSOR BASED INTELLIGENT ROBOTIC COOKING KITCHEN USING HAPTIC TECHNOLOGY	DR.SUSHMA JAISWAL	12-03-2021	10-12-2021	50/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
125	202141055545	Published	DR.SUSHMA JAISWAL	A SYSTEM FOR FINGERPRINT IMAGE PROCESSING FOR AN ELECTRONIC DEVICE AND METHOD THEREOF	DR.SUSHMA JAISWAL	30-11-2021	10-12-2021	50/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
126	202121055035	Published	DR.SUSHMA JAISWAL	A SYSTEM FOR CARDIAC OUTPUT ESTIMATION & PREDICTION USING MACHINE LEARNING INTERFACES AND METHOD THEREOF	DR.SUSHMA JAISWAL	28-11-2021	10-12-2021	50/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>

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127	202141054994	Published	DR.SUSHMA JAISWAL	HYBRID HUMAN-MACHINE LEARNING METHOD TO PROVIDE REAL-TIME PERSONALIZED HOSPITALITY SELF-SERVICE CHECK-IN SYSTEM GUESTS	DR.SUSHMA JAISWAL	27-11-2021	10-12-2021	50/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
128	202141053855	Published	DR.SUSHMA JAISWAL	IoT BASED EVENT DRIVEN AIR QUALITY SENSOR NETWORK TO DETECT FOREST FIRES USING DRONE BASED INTELLIGENT MICRO ELECTROMECHANICAL SYSTEMS (MEMS) TECHNOLOGY	DR.SUSHMA JAISWAL	23-11-2021	10-12-2021	50/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
129	202131053753	Published	DR.SUSHMA JAISWAL	A DATA PROCESSING SYSTEM AND METHOD FOR VEHICLE-END DEVICE WITH A CLOUD COMPUTING WEARABLE	DR.SUSHMA JAISWAL	23-11-2021	10-12-2021	50/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
130	202141053048	Published	DR.SUSHMA JAISWAL	SWEAT SENSOR BASED INTELLIGENT DEVICE TO DETECT THE STRESS LEVELS OF A PATIENT BY MONITORING CORISTOL ANDGLUCOSE LEVELS	DR.SUSHMA JAISWAL	18-11-2021	03-12-2021	49/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>

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131	202131052161	Published	DR.SUSHMA JAISWAL	A SYSTEM FOR DETERMINING INDOOR LOCATION USING A DIGITAL VISUAL SYSTEM BASED ON INTERNET OF THINGS (IOT) AND METHO	DR.SUSHMA JAISWAL	14-11-2021	10-12-2021	50/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
132	202141052156	Published	DR.SUSHMA JAISWAL	BRAIN INSPIRED ARIFICIAL INTELLIGENCE IMPLANT TO DETECT HEART DISEASE USING RESERVOIR COMPUTING	DR.SUSHMA JAISWAL	13-11-2021	03-12-2021	49/2022	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
133	202141051706	Published	DR.SUSHMA JAISWAL	AN AI & ML BASED SYSTEM FOR FABRICATING POWER VLSI DIODE DEVICES AND METHOD THEREOF	DR.SUSHMA JAISWAL	11-11-2021	26-11-2021	48/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
134	202141051612	Published	DR.SUSHMA JAISWAL	A SYSTEM FOR TAGGING IOT DEVICE BASED ON CONVOLUTIONAL NEURAL NETWORK (CNN) AND METHOD THEREOF	DR.SUSHMA JAISWAL	10-11-2021	03-12-2021	49/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
135	202141050901	Published	DR.SUSHMA JAISWAL	A MEDICAL IMAGE PROCESSING SYSTEM, IMAGE PROCESSING METHOD, AND MEDICAL IMAGE PROCESSING DEVICE	DR.SUSHMA JAISWAL	06-11-2021	03-12-2021	49/2022	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>

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136	202131050687	Published	DR.SUSHMA JAISWAL	A SYSTEM BASED ON DEEP LEARNING THREE-DIMENSIONAL PIPELINE RECONSTRUCTION AND METHOD THEREOF	DR.SUSHMA JAISWAL	04-11-2021	10-12-2021	50/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
137	202141050202	Published	DR.SUSHMA JAISWAL	AN IOT BASED SYSTEM FOR ALARM CLOCK HAVING TEMPERATURE MEASUREMENT FUNCTION AND METHOD THEREOF	DR.SUSHMA JAISWAL	02-11-2021	19-11-2021	47/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
138	202131049863	Published	DR.SUSHMA JAISWAL	AN IMAGE PROCESSING SYSTEM FOR TOUCH DISPLAY PRODUCT, STORAGE MEDIUM & ELECTRONIC DEVICE	DR.SUSHMA JAISWAL	30-10-2021	12-11-2021	46/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
139	202141049308	Published	DR.SUSHMA JAISWAL	A SYSTEM FOR ENCODING AND DECODING DATA USING CLOUD COMPUTING AND METHOD THEREOF	DR.SUSHMA JAISWAL	28-10-2021	05-11-2021	45/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
140	202141048690	Published	DR.SUSHMA JAISWAL	FALLING CAT INSPIRED INTELLIGENT QUADRUPEDAL ROBOT TO ASSIST PEOPLE DURING RISKY MOUNTAIN TREKKING	DR.SUSHMA JAISWAL	25-10-2021	05-11-2021	45/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>



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141	202141048454	Published	DR.SUSHMA JAISWAL	AN ARTIFICIAL INTELLIGENCE BASED WIRELESS COMMUNICATION SYSTEM, CONTROL DEVICE AND METHOD THEREOF	DR.SUSHMA JAISWAL	24-10-2021	05-11-2021	45/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
142	202141047288	Published	DR.SUSHMA JAISWAL	AN IMAGE PROCESSING SYSTEM WITH CONVOLUTIONAL NEURAL NETWORK MODULES AND METHOD THEREOF	DR.SUSHMA JAISWAL	18-10-2021	05-11-2021	45/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
143	202141047024	Published	DR.SUSHMA JAISWAL	LEARNING BASED INTELLIGENT SENSOR FRAMEWORK TO ASSIST FARMERS IN WEATHER FORECASTING FOR APPROPRIATE CROPPING	DR.SUSHMA JAISWAL	18-10-2021	05-11-2021	45/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
144	202111046812	Published	DR.SUSHMA JAISWAL	A CLOUD COMPUTING TECHNOLOGY-BASED FILE MANAGEMENT AND UPLOADING METHOD & APPARATUS	DR.SUSHMA JAISWAL	13-10-2021	29-10-2021	44/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
145	202141046585	Published	DR.SUSHMA JAISWAL	INTELLIGENT AGRICULTURE – SMART IOT SYSTEM TO ASSIST FARMERS IN EFFECTIVE DECISION MAKING USING DATA SCIENCE	DR.SUSHMA JAISWAL	12-10-2021	05-11-2021	45/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>

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146	202141046324	Published	DR.SUSHMA JAISWAL	AI AND WIRELESS BASED SMART DRUG PRESCRIPTION MANAGEMENT FOR AUTONOMOUS DRUG DELIVERY SYSTEM	DR.SUSHMA JAISWAL	11-10-2021	29-10-2021	44/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
147	202141045592	Published	DR.SUSHMA JAISWAL	SENSOR BASED INTELLIGENT SMART WATCH FOR EARLY DETECTION OF HEART ATTACKS IN PATIENTS SUFFERING FROM CARDIOVASCULAR DISEASES	DR.SUSHMA JAISWAL	07-10-2021	15-10-2021	42/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
148	202141044803	Published	DR.SUSHMA JAISWAL	SENSOR BASED INTELLIGENT WEARABLE HELMET FOR EARLY DETECTION OF STROKE IN PATIENTS	DR.SUSHMA JAISWAL	03-10-2021	05-11-2021	45/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
149	202141043814	Published	DR.SUSHMA JAISWAL	A CONNECTOR MODULE FOR A VLSI CIRCUIT WITH A BATTERY PACK	DR.SUSHMA JAISWAL	27-09-2021	05-11-2021	45/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
150	202141043325	Published	DR.SUSHMA JAISWAL	AN EFFICIENT PREDICTION AND ASSESSMENT OF VEHICLES IN REAL TIME TRAFFIC	DR.SUSHMA JAISWAL	24-09-2021	05-11-2021	45/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
151	202141043000	Published	DR.SUSHMA JAISWAL	A Novel Multimodal Medical Image Fusion System with Pixel Level Fusion	DR.SUSHMA JAISWAL	22-09-2021	29-10-2021	44/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>

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152	202111041771	Published	DR.SUSHMA JAISWAL	BLOCKCHAIN BASED INTERNET OF THINGS SYSTEM WITH DATA PROCESSING AND CLEANING METHOD TO THE SENSOR DATA	DR.SUSHMA JAISWAL	15-09-2021	01-10-2021	40/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
153	202141041757	Published	DR.SUSHMA JAISWAL	SENSOR-BASED INTELLIGENT DIGITAL NOSE FOR ANALYSING THE BREATHING PATTERNS OF LUNG CANCER PATIENTS USING MACHINE	DR.SUSHMA JAISWAL	15-09-2021	01-10-2021	40/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
154	202131041447	Published	DR.SUSHMA JAISWAL	AN APPARATUS FOR AUTOMATED DATA COLLECTION, MANAGEMENT, AND REPORTING BASED ON DEEP LEARNING AND ARTIFICIAL INT	DR.SUSHMA JAISWAL	14-09-2021	26-11-2021	48/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
155	202141040841	Published	DR.SUSHMA JAISWAL	A SYSTEM FOR PREAMBLE DATA GENERATION AND ENCODING NESTED QR CODE AND METHOD THEREOF	DR.SUSHMA JAISWAL	09-09-2021	24-09-2021	39/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
156	202141040214	Published	DR.SUSHMA JAISWAL	DRAGONFLY BRAIN-INSPIRED INTELLIGENT ROBOTIC DRONE TO REMOVE WEEDS IN AGRICULTURAL FARM PLANTS	DR.SUSHMA JAISWAL	05-09-2021	24-09-2021	39/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>

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157	202131039493	Published	DR.SUSHMA JAISWAL	MULTIFUNCTION HEAT TRANSMISSION SIMULATOR WITH AI AND MACHINE LEARNING	DR.SUSHMA JAISWAL	31-08-2021	17-09-2021	38/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
158	202141038588	Published	DR.SUSHMA JAISWAL	AN IMAGE ANALYSIS DEVICE USING DEEP LEARNING DATA MODELLING AND METHOD THEREOF	DR.SUSHMA JAISWAL	25-08-2021	03-09-2021	36/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
159	202111038153	Published	DR.SUSHMA JAISWAL	A SYSTEM FOR CLOUD MONITORING AND REPAIR METHOD IN AN IOT NETWORK	DR.SUSHMA JAISWAL	23-08-2021	03-09-2021	36/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
160	202141038129	Published	DR.SUSHMA JAISWAL	THE SYSTEM AND APPARATUS FOR PRECISELY SMART FARMING."	DR.SUSHMA JAISWAL	23-08-2021	24-09-2021	39/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
161	202141038028	Published	DR.SUSHMA JAISWAL	Image Reconstruction Method Via Iterative Linear Interpolation Using Verge Points	DR.SUSHMA JAISWAL	23-08-2021	24-09-2021	39/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
162	202141037739	Published	DR.SUSHMA JAISWAL	INTELLIGENT PREDICTION AND IMAGE GENERATION MODEL USING MACHINE LEARNING TO TRAIN SELF-DRIVING CARS	DR.SUSHMA JAISWAL	20-08-2021	27-08-2021	35/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>

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163	202141037545	Published	DR.SUSHMA JAISWAL	A SYSTEM FOR PROVIDING IOT BASED SECURITY MODULE FOR GUEST SECURITY IN IOT NETWORK AND METHOD THEREOF	DR.SUSHMA JAISWAL	18-08-2021	27-08-2021	35/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
164	202141037164	Published	DR.SUSHMA JAISWAL	A NOVEL BLOCK BASED FEATURE LEVEL IMAGE FUSION SYSTEM USING LWT AND NEURAL NETWORKS	DR.SUSHMA JAISWAL	17-08-2021	27-08-2021	35/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
165	202141036940	Published	DR.SUSHMA JAISWAL	Isotropic Antenna based on AI & ML Interface having Multifunctional guide-wire assemblies	DR.SUSHMA JAISWAL	15-08-2021	20-08-2021	34/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
166	202141036605	Published	DR.SUSHMA JAISWAL	Sensor Based Intelligent Brain Computer Interface System for Assisting Hand Paralyzed Patients to Perform Typing by Brain	DR.SUSHMA JAISWAL	12-08-2021	20-08-2021	34/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
167	202111036217	Published	DR.SUSHMA JAISWAL	A SYSTEM HAVING SYNCHRONOUS SIGNALING FOR INTERFACING VLSI CIRCUITS	DR.SUSHMA JAISWAL	11-08-2021	03-09-2021	36/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
168	202141034610	Published	DR.SUSHMA JAISWAL	A SYSTEM FOR SERVER-DRIVEN DATA SYNCHRONIZATION IN IOT CONNECTIVITY AND METHOD THEREOF	DR.SUSHMA JAISWAL	01-08-2021	06-08-2021	32/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>

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.
169	202141034599	Published	DR.SUSHMA JAISWAL	SKIN CANCER (MELANOMA) DETECTION AND RECOMMENDER SYSTEM USING DEEP LEARNING	DR.SUSHMA JAISWAL	01-08-2021	06-08-2021	32/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
170	202141033370	Published	DR.SUSHMA JAISWAL	A Novel Robust Method for Pattern Recognition System with Enhanced Micro Structure Descriptors based Classification	DR.SUSHMA JAISWAL	25-07-2021	30-07-2021	31/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
171	202141033338	Published	DR.SUSHMA JAISWAL	SENSOR BASED INTELLIGENT HAND GLOVES FOR HEALTHCARE PROFESSIONALS FOR USE DURING COVID-19 PANDEMIC	DR.SUSHMA JAISWAL	24-07-2021	06-08-2021	32/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
172	202141033317	Published	DR.SUSHMA JAISWAL	SENSOR BASED INTELLIGENT HAND GLOVES FOR HEALTHCARE PROFESSIONALS FOR USE DURING COVID-19 PANDEMIC	DR.SUSHMA JAISWAL	24-07-2021	06-08-2021	32/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
173	202141033101	Published	DR.SUSHMA JAISWAL	A SYSTEM FOR FILTRATION OF MESSAGES IN A NETWORK USING STATISTICAL PROCESSES AND METHOD THEREOF	DR.SUSHMA JAISWAL	23-07-2021	06-08-2021	32/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>

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174	202141032482	Published	DR.SUSHMA JAISWAL	A DATA MINING TOOL FOR MONITORING AND REPORTING FOR A CHANGE IN A REAL-TIME DATA	DR.SUSHMA JAISWAL	19-07-2021	30-07-2021	31/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
175	202111032293	Published	DR.SUSHMA JAISWAL	INTELLIGENT WEARABLE SWEAT SENSOR BASED DEVICE FOR MONITORING AND RECOMMENDING PERSONAL PHYSICAL FITNESS	DR.SUSHMA JAISWAL	18-07-2021	06-08-2021	32/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
176	202141031766	Published	DR.SUSHMA JAISWAL	A SYSTEM AND METHOD FOR MINING TRAFFIC PATTERNS OF IoT DEVICES IN EDGE NETWORKS	DR.SUSHMA JAISWAL	15-07-2021	23-07-2021	30/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
177	202141031755	Published	DR.SUSHMA JAISWAL	A System and Method for E-Mail Feedback in a Trusted Network using Non-Deterministic Methods & Tools	DR.SUSHMA JAISWAL	14-07-2021	16-07-2021	29/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
178	202141031402	Published	DR.SUSHMA JAISWAL	A SYSTEM FOR SHARING IMAGES AND MULTIMEDIA MESSAGE IN ACLOUD NETWORK	DR.SUSHMA JAISWAL	13-07-2021	16-07-2021	29/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
179	202141031063	Published	DR.SUSHMA JAISWAL	A SYSTEM AND METHOD FOR ANALYSING BIOLOGICAL EFFECTS OF MOLECULES USING MONTE CARLO METHOD	DR.SUSHMA JAISWAL	10-07-2021	16-07-2021	29/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>

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180	202141030994	Published	DR.SUSHMA JAISWAL	A SYSTEM AND METHOD BASED ON NEURAL NETWORK AND HIDDEN MARKOV MODELLING FOR PREDICTING DRUG PROPERTY"	DR.SUSHMA JAISWAL	09-07-2021	16-07-2021	29/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
181	202141030571	Published	DR.SUSHMA JAISWAL	MACHINE LEARNING AND IOT BASED SMART WEARABLE SYSTEM FOR AUTONOMOUS MANAGEMENT OF DIABETES MELLITUS	DR.SUSHMA JAISWAL	07-07-2021	16-07-2021	29/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
182	202141030433	Published	DR.SUSHMA JAISWAL	A SYSTEM AND METHOD FOR PREDICTING SEISMIC EVENT USING ML & AI INTERFACES"	DR.SUSHMA JAISWAL	07-07-2021	16-07-2021	29/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
183	202141030003	Published	DR.SUSHMA JAISWAL	A SYSTEM AND METHOD FOR DATA ENCRYPTION BETWEEN IOT DEVICES AND A NETWORK GATEWAY	DR.SUSHMA JAISWAL	04-07-2021	16-07-2021	29/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
184	202141029699	Published	DR.SUSHMA JAISWAL	ARTIFICIAL INTELLIGENCE BASED SMART SOLAR TRACKING TECHNIQUE FOR UNINTERRUPTED POWERING SYSTEM	DR.SUSHMA JAISWAL	01-07-2021	16-07-2021	29/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>



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185	202141028836	Published	DR.SUSHMA JAISWAL	A SYSTEM FOR PROVIDING HARDWARE ACCESS USING A VIRTUAL MACHINE ENVIRONMENT WITH A USER AUTHENTICATION	DR.SUSHMA JAISWAL	27-06-2021	16-07-2021	29/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
186	202111028832	Published	DR.SUSHMA JAISWAL	IMAGE CONTRAST ENHANCEMENT SYSTEM WITH FUZZY BASED THRESHOLD HISTOGRAM EQUALIZATION	DR.SUSHMA JAISWAL	27-06-2021	23-07-2021	30/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
187	202141028054	Published	DR.SUSHMA JAISWAL	A SYSTEM AND METHOD FOR PROCESSING RANDOM ACCESS PROCEDURES IN RELAY USING STATE-ACTION-REWARD-STATE-ACTION (SA	DR.SUSHMA JAISWAL	22-06-2021	02-07-2021	27/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
188	202141027526	Published	DR.SUSHMA JAISWAL	DESIGNING AN ELECTRIC CIRCUIT BY USING A NEURAL NETWORK WITH BAYESIAN INFERENCE TO SELECT SUB-ROUTES FOR CONNECTIELEMENTS	DR.SUSHMA JAISWAL	19-06-2021	02-07-2021	27/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
189	202111025113	Published	DR.SUSHMA JAISWAL	A SYSTEM AND METHOD FOR SECURE CONNECTION WITH NEWLY CONNECTED DEVICE IN CLOUD NETWORK	DR.SUSHMA JAISWAL	06-06-2021	18-06-2021	25/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>

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190	202141025111	Published	DR.SUSHMA JAISWAL	A VEHICLE TIRE CONTROL SYSTEM AT CURVED ROADS USING INTELLIGENT INTERFACES AND SUPPORT VECTOR MACHINES	DR.SUSHMA JAISWAL	06-06-2021	11-06-2021	24/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
191	202141024465	Published	DR.SUSHMA JAISWAL	A VEHICLE SIMULATION TOOL BY PROVIDING WSN INSIDE THE VEHICLE WITH AI & ML BASED INTERFACES	DR.SUSHMA JAISWAL	01-06-2021	11-06-2021	24/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
192	202141024071	Published	DR.SUSHMA JAISWAL	A WEARABLE ARTICLE WITH SENSORS AND ML & AI MODULES FOR ANALYSING BEHAVIOUR OF USER	DR.SUSHMA JAISWAL	30-05-2021	18-06-2021	25/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
193	202121023839	Published	DR.SUSHMA JAISWAL	SMARTMON: MONITORING THE STATUS OF SMART DEVICES VIA NETWORK TRAFFIC	DR.SUSHMA JAISWAL	28-05-2021	02-07-2021	27/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
194	202141023786	Published	DR.SUSHMA JAISWAL	A NOVEL SYSTEM BASED ON RANDOM SAMPLE CONSENSUS (RANSAC) FOR IRIS RECOGNITION IN NON-IDEAL IMAGING CONDITIONS	DR.SUSHMA JAISWAL	28-05-2021	11-06-2021	24/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>

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.
195	202141023485	Published	DR.SUSHMA JAISWAL	A SYSTEM BASED ON MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE MODULES FOR PROVIDING IOT NETWORK CONFIGURATION USER VOICE AND GESTURE AND METHOD THEREOF	DR.SUSHMA JAISWAL	26-05-2021	11-06-2021	24/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
196	202111020987	Published	DR.SUSHMA JAISWAL	A NOVEL SYSTEM FOR INTERFACING THE ARTIFICIAL INTELLIGENCE WITH DISTRIBUTED SMART GRIDS	DR.SUSHMA JAISWAL	09-05-2021	14-05-2021	20/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
197	202141020723	Published	DR.SUSHMA JAISWAL	A SYSTEM FOR RESOURCE AGGREGATION TO THE CLOUD WITH OPTIMAL PATH DETECTION	DR.SUSHMA JAISWAL	06-05-2021	14-05-2021	20/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
198	202121019989	Published	DR.SUSHMA JAISWAL	AN ARTIFICIAL INTELLIGENCE BASED VOICE COMMANDING GLUCOSE MONITORING AND DETERMINING SYSTEM	DR.SUSHMA JAISWAL	30-04-2021	04-06-2021	23/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
199	202121019690	Published	DR.SUSHMA JAISWAL	A NEUROMORPHIC SYSTEM FOR INTEGRATING A MODULAR PIECES OF AN ASSEMBLY	DR.SUSHMA JAISWAL	29-04-2021	04-06-2021	23/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>

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200	202141019150	Published	DR.SUSHMA JAISWAL	A SYSTEM BASED ON NEURAL NETWORK TO REFINE THE HEURISTIC DATA WITH IMAGE PROCESSING TECHNIQUES	DR.SUSHMA JAISWAL	26-04-2021	07-05-2021	19/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
201	202141018109	Published	DR.SUSHMA JAISWAL	A NOVEL METHOD OF OBJECT DETECTION USING FEEDFORWARD DEEP CONVOLUTIONAL ARTIFICIAL NEURAL NETWORK IN WSN	DR.SUSHMA JAISWAL	19-04-2021	30-04-2021	18/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
202	202141017859	Published	DR.SUSHMA JAISWAL	A NOVEL REAL TIME SENTIMENT DATA CLASSIFICATION SYSTEM WITH ENHANCED LONG SHORT TERM MEMORY	DR.SUSHMA JAISWAL	17-04-2021	23-04-2021	17/2021	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051646_ipindia-list-2021-Part-A.pdf</a> <a href="https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf">https://www.ggu.ac.in/Admin/Files/Document/01092023051752_ipindia-list-2021-Part-B.pdf</a>
203	202141041225	Published	Dr. Rajwant Singh Rao	DEVELOPMENT OF BIG DATA ANALYTICS FOR INTELLIGENT INDUSTRIAL MANUFACTURING BASED ON WIRELESS AND IOT TECHNOLOGY	Dr. Rajwant Singh Rao	14-09-2021	29-10-2021	44/2021	GGV Bilaspur	

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204	202141046612	Published	Dr Ashok Kumar Koshariya, Ms.Bably Dolly, Mr.Avadhesh Kumar Dixit, Dr. Harish Rajak, Mr. Dattatray G. Takale, Dr Ramakant Bhardwaj, Dr. Ravi Shankar	A Device to Recognize Fungal Diseases Using Image Processing and Ann Approach in Plants.	Dr Ashok Kumar Koshariya, Ms.Bably Dolly, Mr.Avadhesh Kumar Dixit, Dr. Harish Rajak, Mr. Dattatray G. Takale, Dr Ramakant Bhardwaj, Dr. Ravi Shankar	12-10-2021	05-11-2021	202141046612	GGV Bilaspur	<a href="https://www.ggu.ac.in/Admin/Files/DepartmentDocument/08292022051159_12.10.2022.pdf">https://www.ggu.ac.in/Admin/Files/DepartmentDocument/08292022051159_12.10.2022.pdf</a>
205	346940-001	Published	Dharmadhikari S.	BLANDER BLADE	Chaudhary et al.	29-07-2021	11-10-2021	103422	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="https://ggu.ac.in/Admin/Files/DepartmentDocument/12192022052357_Patent-1.pdf">https://ggu.ac.in/Admin/Files/DepartmentDocument/12192022052357_Patent-1.pdf</a>
206	17/144,173	Published	Kundan Meshram	TRACKING AND ALERTING TRAFFIC MANAGEMENT SYSTEM USING IOT FOR SMART CITY	Kundan Meshram	08-01-2021	06-05-2021	US2021/013414 6 A1	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="https://patentcenter.uspto.gov/applications/17144173">https://patentcenter.uspto.gov/applications/17144173</a>
207	202021053284	Published	Dr. Manish Shrivastava	VIRTUAL SCRIBE	Dr. Manish Shrivastava	08-12-2020	15-01-2021	202021053284	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="https://ggu.ac.in/Admin/Files/DepartmentDocument/06282022083241_patent2.pdf">https://ggu.ac.in/Admin/Files/DepartmentDocument/06282022083241_patent2.pdf</a>
208	202021053283	Published	Dr. Manish Shrivastava	LAND SCANNER SYSTEM EMBEDDED IN DRONE FOR LAND SURVEYING	Dr. Manish Shrivastava	08-12-2020	15-01-2021	202021053283	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="https://ggu.ac.in/Admin/Files/DepartmentDocument/06282022083332_patent_1.pdf">https://ggu.ac.in/Admin/Files/DepartmentDocument/06282022083332_patent_1.pdf</a>
209	202121026466	Published	Dr Rohit Raja	SYSTEM AND METHOD FOR OBJECT DETECTION AND OBJECT TRACKING FOR TRAFFIC SURVEILLANCE,	Dr Rohit Raja	23-07-2021	23-07-2021	389902	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="https://ipindiaservices.gov.in/PublicSearch/PublicationSearch/ApplicationStatus">https://ipindiaservices.gov.in/PublicSearch/PublicationSearch/ApplicationStatus</a>
210	202141002082	Published	Dr Rohit Raja	DEEP LEARNING BASED ROBOTIC JUDGE FOR RASH DRIVING CRIME, APPLICATION	Dr Rohit Raja	16-01-2021	22-01-2021	202141002082	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="https://ipindiaservices.gov.in/PublicSearch/PublicationSearch/ApplicationStatus">https://ipindiaservices.gov.in/PublicSearch/PublicationSearch/ApplicationStatus</a>

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211	202121001111	Published	Prof T.V. Arjunan	EVACUATED SOLAR TUBE EMBEDDED WITH PIERCED TWISTED TAPE SYSTEM FOR HEATING AIR	Dr. T. V. Arjunan, Mr. A. Veera Kumar, Mr. R. Venkatramanan, Dr. D. Seenivasan, Dr.M.M. Matheswaran, Dr. S. Vijayan	11-01-2021	29-01-2021	202121001111	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="https://www.quickcompany.in/patents/evacuated-solar-tube-embedded-with-pierced-twisted-tape-system-for-heating-air">https://www.quickcompany.in/patents/evacuated-solar-tube-embedded-with-pierced-twisted-tape-system-for-heating-air</a>
212	202021054885	Published	Prof T.V. Arjunan	EVACUATED TUBE SOLAR AIR HEATER WITH JET IMPINGEMENT SYSTEM	Prof T.V. ARJUNAN, MR. A. VEERA KUMAR, Mr. R. VENKATRAMANAN, DR. D. SEENIVASAN, DR. M.M. MATHESWARAN, DR. S. VIJAYAN	17-12-2020	22-01-2021	202021054885	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="https://ipindia.gov.in/writereaddata/Portal/IPOJournal/1_4945_1/Part-1.pdf">https://ipindia.gov.in/writereaddata/Portal/IPOJournal/1_4945_1/Part-1.pdf</a>