

# INDIAN INSTITUTE OF TECHNOLOGY

(BHU)

<b><u>LIST OF PATENTS</u></b> (From 2014 onwards)				
<b>YEARS</b>	<b>PATENTS FILED</b>	<b>PATENTS PUBLISHED</b>	<b>PATENTS GRANTED</b>	<b>TRANSFER OF TECHNOLOGY</b>
<b>2014</b>	03	06	0	0
<b>2015</b>	04	03	0	0
<b>2016</b>	16	01	0	0
<b>2017</b>	27	19	0	3
<b>2018</b>	42	25	0	0
<b>2019</b>	53	33	3	3
<b>2020</b>	34	42	0	1
<b>2021</b>	23	71	2	0

## List of Patents filed in the Year-2021

Sl. No.	Title	Application No.	Filing Date	Inventor's Name	Department
1.	<i>AN IMPROVED ORGANIC RANKINE CYCLE SYSTEM WITH COUPLED DIFFUSION ABSORPTION REFRIGERATION EFFECT</i>	<b>2021 1100 0822</b>	07-01-2021	Prof. Shailendra Kumar Shukla, Dr. Jeevan Vachan Tirkey, Mr. Saurabh Pathak, Mr. Tarun Singh	Mechanical Engg.
2.	<i>AN IMPROVED SOLAR STILL ASSEMBLY FOR PURIFICATION OF RAW WATER</i>	<b>2021 1100 0980</b>	08-01-2021	Prof. Shailendra Kumar Shukla, Dr. Jeevan Vachan Tirkey	CERD-Mechanical Engg.
3.	A MULTIFUNCTIONAL DIARYLUREA-HYDROXYAMIDINE BASED COMPOUND FOR TREATMENT OF ALZHEIMER DISEASE	<b>2021 1100 1482</b>	12-01-2021	G.P. Modi, Yash Pal Singh, Gaurav Singh, Gauri Shankar, Chinthala S. Praveen Kumar, Meenu Yadav	Pharmaceutics
4.	A NANOHERBICIDAL COMPOSITION AND A METHOD FOR ITS PREPARATION AND USES THEREOF	<b>2021 1100 2570</b>	19-01-2021	Reshu Bhardwaj, Preeti Maiti, Prof. Ram kumar Singh, Om Prakash, Prof. Pralay Maiti	Deptt. Of Agronomy, Institute OF Agriculture Sciences, SMST
5.	METHOD FOR FABRICATING A GAS SENSOR BY DEVELOPING THIN SOLID POLYMERIC FILM	<b>2020 1100 5745</b>	10-02-2020	Prof. RAJIV PRAKASH, Subhajit Jana	SMST
6.	A DEVICE FOR DEPOSITION OF FLUID FOR CHROMATOGRAPHY	<b>2021 1100 5760</b>	11-02-2021	Dr. Alakh N Sahu, Mr. Dharmendra Yadav	Pharmaceutics

7.	A CHIRAL HOLLOW POLYMERIC NANOCAPSULE WITH DEFINED OPENING AND A PROCESS FOR ITS PREPARATION	<b>2021 1100 7198</b>	20-02-2021	Dr. Pradip Paik	Bio Medical Engg
8.	A DRUG LOADED THERMOSENSITIVE POROUS POLYMER FILM AND A METHOD OF PREPARATION THEREOF	<b>2021 1100 9754</b>	09-03-2021	Dr. Pradip Paik	Bio Medical Engg
9.	A GLASS MATRIX COMPOSITION FOR CONVERSION OF A BARREN LAND INTO A FERTILE LAND	<b>2021 1101 1563</b>	18-03-2021	Dr. R. K. Chaturvedi (Senior Scientific Officer)	Ceramic Engg
10.	A METHOD AND A KIT FOR DETECTING CONCENTRATION OF ANTI-TUBERCULOSIS DRUG IN A BIOLOGICAL SAMPLE	<b>2021 1101 1562</b>	18-03-2021	Ravi Prakash Ojha, Shweta Pal, Rajiv Prakash	SMST
11.	A NATURAL TEMPLATE BASED ANTICHOLINESTRASE INHIBITORS AND ANTIOXIDANTS FOR TREATMENT OF ALZHEIMER DISEASE	<b>2021 1101 6470</b>	07-04-2021	G.P. Modi, Yash Pal Singh, Gaurav Singh, Gauri Shankar, Atanu Barik, Lovejit Singh	Pharmaceutics
12.	A FACILE HOLLOW MESOPOROUS CHIRAL POLYMERIC NANOCAPSULE AND A PROCESS FOR ITS PREPARATION	<b>2021 1102 0273</b>	03-05-2021	Dr. Pradip Paik	Bio Medical Engg

<b>13</b>	A METHOD FOR DEVELOPMENT OF SYNERGISTIC NANO HYBRID STRUCTURE ON NANORODS	<b>2021 1102 8517</b>	25-06-2021	Dr. Santanu Das, Mr. Vivek Kumar Singh, Dr. Bratindranath Mukherjee	Ceramic Engg
<b>14</b>	Adaptive optimal power management technique for Renewable Based Mix Energy System	<b>2021 1103 1286</b>	12-07-2021	Dr. R. K. Singh, Priyatosh Jena	Electrical Engg.
<b>15</b>	SYSTEM AND METHOD FOR ENERGY MANAGEMENT AND VOLTAGE CONTROL THROUGH GRID-CONNECTED COMMUNITY ENERGY RESOURCES	<b>2021 1103 3576</b>	26-07-2021	Prof. Shiv Pujan Singh, Shailendra Singh	Electrical Engg.
<b>16</b>	A DC/DC CONVERTER WITH BOTH CURRENT AND VOLTAGE SOURCE PROPERTY FOR OPTIMAL BATTERY CHARGING SYSTEM	<b>2021 1103 9649</b>	01-09-2021	Dr. R. K. Singh, Warda Matin Khan, Dr. Sachin Kumar Jain (Asst. Prof. IIITDM Jabalpur)	Electrical Engg.
<b>17</b>	A PORTABLE COLORIMETRY SENSING DEVICE FOR POINT OF CARE DIAGNOSTICS	<b>2021 1104 6586</b>	12-10-2021	Pranjal Chandra, Supratim Mahapatra, Amit Thakur	Bio Chemical Engg
<b>18</b>	A SUPERABSORBENT BIOCOMPATIBLE SOY-BASED HYDROGEL SCAFFOLD AND METHOD OF PREPARATION THEREOF	<b>2021 1105 0848</b>	05-11-2021	Dr. Sanjeev Kumar Mahto, Neelima Varshney	Bio Medical Engg

<b>19</b>	ANALYTE DETECTION BASED ON ENHANCED CHEMILUMINESCENCE AND SMARTPHONE IMAGING IN BIOLOGICAL FLUIDS AND METHOD THEREOF	<b>2021 1105 1598</b>	10-11-2021	Narsingh Raw Nirala, Priya Singh, Nupur Kumari, Rajiv Prakash	SMST
<b>20</b>	AN ASYMMETRIC TRANSISTOR AND METHOD OF FABRICATION THEREOF	<b>2021 1105 2391</b>	15-11-2021	Dr. Shushant Mittal, Dr. Shivam Verma	Electronics Engg.
<b>21</b>	AN IMPROVED ELECTRO-KINETIC CONSTANT RATE-OF-STRAIN CONSOLIDOMETER	<b>2021 1105 7176</b>	08-12-2021	Deep Jyoti Singh, P. Bala Ramudu, Arun Prasad	Civil Engg, CED
<b>22</b>	A DUAL-MODE EVAPORATIVE COOLER FOR COMPOSITE CLIMATE	<b>2021 1105 7640</b>	10-12-2021	Dr. Jahar Sarkar, Sarvesh Kashyap	Mechanical Engg.
<b>23</b>	PREPARATION OF CARBON NANOCAPSULES FROM AZADIRACHTA INDICA SEED FOR THE TREATMENT OF BREAST CANCER	<b>2021 1106 0434</b>	23-12-2021	Dr. Pradip Paik, Samedutta Maity, Kirti Wasnik, Munendra Singh Tomar	Bio Medical Engg

### List of Patents filed in the Year-2020

Sl. No.	Title	Application No.	Filing Date	Inventor's Name	Department
1.	A NOVEL POROUS SCAFFOLD FOR ORTHOPEDIC APPLICATION AND A METHOD OF PREPARATION THEREOF	2020 1100 1700	14-01-2020	Dr. Kalyani mohanta, Mr. Mayank Kumar Yadav, Mr. Vaibhav Pandey, Dr. Ajay Kumar	Ceramic Engg
2.	SOLAR AIR HEATER WITH TROMBE WALL	2020 1100 3336	24-01-2020	Dr. Om Prakash Singh, Ajeet Pratap Singh	Mechanical Engg.
3.	AN ARSENIC RESISTANT BACTERIUM STRAIN	2020 1100 3640	27-01-2020	Dr. Vishal Mishra, Mr. Vipul Kumar Yadav	Bio Chemical Engg
4.	A BIOMETRIC BASED SYSTEM AND METHOD FOR MANAGEMENT OF PET ANIMAL	2020 1100 3639	27-01-2020	Dr. Sanjay Kumar Singh, Abhinav, Sandeep Sambhaji Udamale, Anshul, Dr. Rishav Singh, Dr. Arun kumar Sangaiah	Computer Science & Engineering
5.	A METHOD OF PREPARING BENZALDEHYDE THROUGH CATALYTIC OXIDATION	2020 1100 5531	07-02-2020	Dr. P.K. Roy, Mr. Mukesh Suthar	Ceramic Engg
6.	METHOD FOR FABRICATING A GAS SENSOR BY DEVELOPING THIN SOLID POLYMERIC FILM	2020 1100 5745	10-02-2020	Prof. RAJIV PRAKASH, Subhajit Jana	SMST

7.	A METHOD FOR PREPARING THREE DIMENSIONAL NANOFIBROUS COMPOSITE SCAFFOLD AND A PRODUCT THEREOF	2020 1100 6354	13-02-2020	Dr. Sanjeev Kumar Mahto, Suruchi Poddar, Agarawal Piyush Sunil	Bio Medical Engg
8.	EXTENDED LARGER AREA HETEROJUNCTION BASED BIO-SENSING DEVICE	202011014307	31-03-2020	Uvanesh Kasiviswanathan, Prof. Neeraj Sharma, Prof. Satyabrata Jit, Dr. Chandan Kumar, Dr. Sanjeev Kumar Mahto, Suruchi Poddar	Bio Medical Engg and Electronics Engg
9.	A COMPOSITION OF AUSTENITIC STAINLESS STEEL FOR MEDICAL IMPLANTS	202011015355	07-04-2020	Dr. G. S. Mahobia, Chadra Shekhar Kumar, Dr. Vakil Singh	Metallurgical Engg
10.	AN ECO-FRIENDLY METHOD OF FABRICATING MULLITE FOAM AND A PRODUCT THEREOF	202011015428	08-04-2020	Dr. P.K. Roy, SK Saddam Hossain	Ceramic Engg
11.	THREE ELECTRODE SYSTEM FOR INACTIVATION OF BACTERIAL CELLS	202011015621	09-04-2020	Dr. Marshal, Ashish Kumar Singh, Juhi Jaiswal	Bio Medical Engg
12.	NANOMATERIALS AND LOW ELECTRIC FIELD BASED MULTI-LAYER FACE MASKS AND A PROCESS OF FABRICATION THEREOF	202011016350	15-04-2020	Prof. RAJIV PRAKASH	SMST
13.	A TWO DIMENSIONAL PHOTSENSITIVE METAL OXIDE SEMICONDUCTOR (MOS) CAPACITOR	202011017140	21-04-2020	Santanu Das, Raja Kumar (Ceramic), Prof. S. Jit, Dr. Chandan Kumar(Electronics)	Ceramic Engg
14.	AN ANTI-MICROBIAL MULTI-LAYER FACE MASK AND A METHOD OF PREPARATION THEREOF	202011017291	22-04-2020	Dr. Marshal	Bio Medical Engg
15.	A METHOD OF PREPARING MULTIWALLED CARBON NANOTUBES	202011017647	24-04-2020	Ashish Kumar Mishra, Shanu Mishra, Somesh Sunil Jaiswal	SMST

16.	A METHOD OF FABRICATING DENSITY GRADIENT MULTI-LAYERED SPINEL REFRACTORY AND A PRODUCT THEREOF	202011017635	24-04-2020	Dr. P.K. Roy, SK Saddam Hossain	Ceramic Engg
17.	A NANOMATERIAL BASED ANTIMICROBIAL COMPOSITION AND A METHOD OF PREPARATION THEREOF	202011017968	27-04-2020	Pradip Paik	Bio Medical Engg
18.	ELECTROCHEMICAL DEVICE FOR HYDROGEN PRODUCTION	202011018312	29-04-2020	Ashish Kumar Mishra, Shanu Mishra, Somesh Sunil Jaiswal	SMST
19.	SOY-BASED ELECTROSPUN NANOFIBROUS SHEET AND METHOD OF ELECTROSPINNING THEREOF	202011018560	30-04-2020	Sanjeev Kumar Mahto	Bio Medical Engg
20.	A METHOD OF SYNTHESIZING CARBON DOTS AND A PRODUCT THEREOF	202011018557	30-04-2020	Pradip Paik	Bio Medical Engg
21.	AN IMPROVED HYBRID SOLAR CHIMNEY BASED POWER GENERATION SYSTEM	202011020671	15-05-2020	Ajeet Pratap Singh, Dr. Om Prakash Singh	Mechanical Engg.
22.	AN ELECTROCHEMICAL SENSOR AND A DUAL SENSING PLATFORM FOR DETECTION OF CORONA VIRUSES AND A PROCESS FOR THEIR DEVELOPMENT	202011020946	18-05-2020	Prof. Rajeev Prakash	SMST
23.	DEVELOPMENT OF MULTIFUNCTIONAL POROUS POLYMERIC MEMBRANE USING ACCELERATOR FOR SEPARATION OF F-BLOCK	202011023201	02-06-2020	Prof. Pralay Maiti	SMST

	ELEMENTS				
24.	A METHOD OF PREPARING A CATALYST FOR CATALYTIC CONVERTER AND A PRODUCT THEREOF	202011026380	22-06-2020	Dr. Deepak Yadav, Dr. Pratichi Singh, Prof. Ram Prasad, Dr. Pradeep Kumar	Chemical Engg
25.	COMPOSITION AND METHOD FOR SYNTHESIS OF STRONTIUM HEXAFERRITE BASED NON-RARE-EARTH MAGNETS	202011029080	08-07-2020	Dr. P.K. Roy, Ms. Akansha Gupta	Ceramic Engg
26.	BIOCOMPATIBLE NANO-TRIBLOCK-CO-POLYMERS AND A PROCESS FOR THEIR PREPARATION	202011029248	09-07-2020	Pradip Paik	Bio Medical Engg
27.	AN IMPROVED DIGITAL STETHOSCOPE	202011030025	15-07-2020	Dr. Marshal, Taresh Sarvesh Sharan	Bio Medical Engg
28.	A MESOPOROUS ANTI-MICROBIAL NANOCOMPOSITE AND A METHOD OF PREPARATION THEREOF	202011031802	24-07-2020	Pradip Paik	Bio Medical Engg
29.	AN IMPROVED HIGH FLOW SOLAR CHIMNEY POWER PLANT	202011033120	01-08-2020	Ajeet Pratap Singh, Dr. Om Prakash Singh	Mechanical Engg.
30.	SYSTEM FOR ELECTRO-OSMOTIC SOIL CONSOLIDATION AND A METHOD THEREOF	202011038430	05-09-2020	P. Bala Ramudu, Deep Jyoti Singh, Arun Prasad	Civil Engg
31.	A METHOD FOR PREPARATION OF WASTE BACTERIAL CULTURE MEDIA BASED FLUORESCENT SECURITY INK	202011041316	23-09-2020	Dr. Vishal Mishra, Anadi Gupta	Bio Chemical Engg
32.	A METHOD OF DEMINERALIZATION OF SCALES,	202011045547	19-10-2020	Dr. Vishal Mishra, Anadi Gupta	Bio Chemical Engg

	SHELLS AND BONES				
33.	A THREE DIMENSIONALLY(3D) PRINTED PHANTOM FOR COMMISSIONING OF GYNAECOLOGICAL BRACHYTHERAPY APPLICATORS	202011045297	17-10-2020	Dr. Sanjeev Kumar Mahto, Ajay Kumar Sahi, Mr. Vinay Saini, Prof. Satyajit Pradhan	Bio Medical Engg and MPMMCC (TMC)
34.	MULTITARGET-DIRECTED TRIAZOLE BRIDGED CYCLOARYL ANALOGUES FOR TREATMENT OF ALZHEIMER'S DISEASE	202011047641	31-10-2020	Gopichand Gutti, Shushil Kr. Singh, Devendra Kumar, Ravi Singh, Ashok Kumar, Mr. A. Ganeshpurkar	Pharmaceutics

### List of Patents filed in the Year-2019

Sl. No.	Title	Application No.	Filing Date	Inventor's Name	Department
1	AN IMPROVED SEGREGATOR	201911000354	03-01-2019	Dr. Vishal Mishra	Bio Chemical Engg
2	A MULTIFUNCTIONAL HYBRID 3-(4-HYDROXY-3-METHOXY-PHENYL) PROP-2-ENOIC ACID AND SUBSTITUTED AMINEPIPERAZINE DERIVATIVES FOR THE TREATMENT OF A	201911000362	03-01-2019	G.P. Modi, Yash Pal Singh, Amruta Pandey	Pharmaceutics

3	MAGNESIUM ZINC FERRITE-POLYURETHANE NANO COMPOSITE	201911000437	04-01-2019	Dr. Santanu Das, Mr. Rajarshi Bhattacharya, Dr. Tapas Kumar Bhattacharya, Dr. Somak Bhattacharya, Prof Pralay Maiti	Ceramic Engg, SMST, Electronics Engg
4	A METAL CERAMIC JOINT ADHESIVE	201911002765	23-01-2019	Prof Pralay Maiti, Dr. Santanu Das, Shivam Tiwari	Ceramic Engg, SMST
5	A METHOD FOR PREPARATION OF GRAPHENE-OXIDE NANOCOMPOSITES BASED SPRAYABLE PAINT COATING	201911008550	05-03-2019	Dr. Santanu Das, Mr. Rajarshi Bhattacharya, Dr. Somak Bhattacharya, Prof Pralay Maiti	Ceramic Engg, SMST, Electronics Engg
6	A METHOD OF PREPARING TITANIUM DIOXIDE BASED TRANSPARENT AND THIN FILMS AND A PRODUCT THEREOF	201911008546	05-03-2019	Dr. Md. Imteyaz Ahmad, Mr. Sooraj Kumar	Ceramic Engg
7	A BIOMETRIC BASED METHOD AND SYSTEM FOR IDENTIFYING AN INFANT	201911008955	07-03-2019	Dr. Sanjay Kumar Singh, Dr. Shrikant Tiwari, Dr. Rishav Singh, Dr. G R Sinha, Dr. Hari Om, Dr. Ritika Singh	Computer Science & Engineering
8	A METHOD OF PREPARING MINERAL FROM ALUMINIUM DROSS USING ORGANIC SOLVENT PRECIPITATION	201911008950	07-03-2019	Kamlesh Singh, Arunabh Meshram, Anant Jain, Divyansh Gautam	Metallurgical Engg
9	HOPPER WITH REPULSION TUBES	201911009585	12-03-2019	Dr. Vishal Mishra, Ms. Priyanka Yadav	Bio Chemical Engg
10	ALUMINIUM FOAM WITH HIGH POROSITY AND OPEN-CELLED MICROSTRUCTURE USING POWDER METALLURGY ROUTE AND A PROCESS THERE OF	201911010216	15-03-2019	Dr. Kalyani mohanta, Mr.Vaibhav Pandey, Dr. Ajay Kumar	Ceramic Engg
11			27-03-2019	Dr. S. Krishnamurthy, Mr. Pankaj paliwal, G.P. Modi,	Pharmaceutics

	A NOVEL ANTI-COAGULANT FORMULATION AND A METHOD OF PREPARATION THEREOF	2019 1101 2094		Gopichand Gutti, Shushil Kr. Singh	
12	MATERIAL FOR FASTER BONE HEALING	201911013103	02-04-2019	Prof. Pralay Maity, Arun Kumar Mohanta, Dr. S. Krishnamurthy, Mr. Pankaj paliwal	SMST, Pharmaceutics
13	FRICTION REDUCING COATING ON ORTHODONTIC WIRES	201911013104	02-04-2019	Chandan Upadhyay, Thakur Prasad Chaturvedi, Rajiv Prakash	SMST
14	A BIO-PIEZOELECTRIC DEVICE AND A METHOD OF PREPARATION THEREOF	201911013972	07-04-2019	Prof. Pralay Maity, Anupma Gaur, ShivamTiwari- SMST & Chandan Kumar- School of Biomedical Engg.	SMST & Bio Medical Engg
15	A NOVEL POLYMERIC HYDROGEL FOR TREATING MELANOMA CANCER AND A METHOD THEREOF	201911015958	22-04-2019	Prof. Pralay Maity, Aparna Shukla, Akhand Pratap Singh	SMST
16	A WASTE DERIVED NANO- SOL BINDER FOR CASTABLE REFRACTORY AND A METHOD OF PREPARATION THEREOF	201911016335	24-04-2019	Dr. P.K. Roy, SK Saddam Hossain	Ceramic Engg
17	AN UPCONVERTING PLATFORM FOR ARSENITE DETECTION IN WATER SAMPLES AND A METHOD OF PREPARATION THEREOF	201911017225	30-04-2019	Dr. Manoj Kumar	Chemical Engg
18	A NOVEL COMPOSITION FOR SURFACE MODIFICATION OF ANODE FOR ELECTROCHEMICAL APPLICATION	201911018781	10-05-2019	Dr. Sanjay Kumar, Dr. Radha Rani, Geetanjali	Bio Chemical Engg
19	A DIRECT BROADCAST SYSTEM USING CDMA TECHNOLOGY	201911019579	17-05-2019	Vipin Kumar Verma (Junior Assistant)	Bio Medical Engg
20	JANUS SHAPED SILVER-		22-05-2019	Chandan Upadhyay, Pinki Singh	SMST

	MAGNETITE NANOPARTICLES AND A METHOD OF PREPARATION THEREOF	201911020251			
21	A NOVEL MATERIAL FOR TREATING WASTEWATER AND A METHOD OF PREPARATION THEREOF	201911020250	22-05-2019	Dr. Vishal Mishra, Mr. Veer Singh	Bio Chemical Engg
22	SOLAR AIR HEATER	2019 1102 1293	29-05-2019	Dr. Om Prakash Singh, Ajeet Pratap Singh	Mechanical Engg.
23	A METHOD OF PREPARING SYNTHETIC BEADS TO REMOVE HEAVY METALS FROM WASTE WATER	2019 1102 2735	07-06-2019	Dr. Vishal Mishra, Ms. Jyoti Singh	Bio Chemical Engg
24	A FOAMING AGENT FOR POROUS CERAMICS AND A METHOD OF PREPARATION THEREOF	2019 1102 5592	27-06-2019	Dr. Kalyani Mohanta, Mr. Vaibhav Pandey, Dr. Ajay Kumar	Ceramic Engg
25	HIGH POWER MICROWAVE SECTORAL WAVEGUIDE MODE CONVERTER	2019 1102 5593	27-06-2019	Vikram Kumar, Dr. Smrity Dwivedi, Prof. Pradip Kumar Jain	Electronics Engg.
26	A MICRO-FLUIDIC PLATFORM FOR LOW DENSITY CULTURE OF CELLS AND A METHOD FOR CONTROLLING THE SAME	2019 1102 4410	29-06-2019	Dr. Sanjeev Kumar Mahto, Surruchi Poddar	Bio Medical Engg
27	A NOVEL SPACE FILLER MATERIAL FOR POST-CANCER SURGERY AND A METHOD OF PREPARATION THEREOF	2019 1102 8001	12-07-2019	Dr. Marshal, Juhi Jaiswal	Bio Medical Engg
28	REORGANIZATION OF MOLECULES IN DISPOSED ABSORBENT MATERIALS INTO ENERGY PRODUCTS USING	2019 1103 0344	26-07-2019	Dr. Poushpi Dwivedi, Dr. Dhanesh Tiwary, Prof. P. K. Mishra, Dr. Jyoti Prasad Chakroborty, Ritendra	Chemistry & Chemical Engg.

	NANOCATALYST			Kumar, Neetu Singh	
29	A NOVEL SUSPENSION FOR THREE-DIMENSIONAL BIOPRINTING AND A METHOD OF PREPARATION THEREOF	2019 1103 0419	27-07-2019	Dr. Sanjeev Kumar Mahto, Surruchi Poddar, Agarawal Piyush Sunil	Bio Medical Engg
30	MACROPOROUS CERAMIC FOAM WITH HIGH POROSITY AND A PROCESS THEREOF	2019 1103 1635	30-07-2019	Dr. Kalyani Mohanta, Mr. Vaibhav Pandey, Dr. Ajay Kumar, Mr. Mayank Kumar Yadav, Mr. Ashutosh Gupta	Ceramic Engg
31	A NOVEL POLYMER BLEND UTILIZING WASTE PLASTICS AND PROCESS OF PREPARATION THEREOF	2019 1103 1635	05-08-2019	Prof. Pralay Maiti, Dipti Saxena	SMST
32	AN INTEGRATED CONTINUOUSLY OPERATED WASTEWATER TREATMENT SYSTEM WITH MICROALGAL BIOMASS PRODUCTION	2019 1103 1783	06-08-2019	Dr. Vishal Mishra, Mr. Vishal Singh	Bio Chemical Engg
33	NOVEL QUINOLINYL PIPERAZINE DERIVATIVES FOR THE TREATMENT OF ALZHEIMER'S DISEASE	2019 1103 2481	10-08-2019	Prof. Sushil Kumar Singh, Dr. Ashok Kumar, Dr. Dileep Kumar Mr. Devendra Kumar, Mr. Gopichand Gutti, Mr. Ankit Ganeshpurkar	Pharmaceutics
34	AN N-TYPE METAL OXIDE INTERFACE BASED THIN FILM TRANSISTORS AND A METHOD OF PREPARATION THEREOF	2019 1103 3524	20-08-2019	Dr. Bhol Nath Pal, Anand Sharma, Nila Pal	SMST
35	A NOVEL COMPOUND FOR TREATING ALZHEIMER'S DISEASE AND A METHOD OF PREPARATION THEREOF	2019 1103 4300	24-08-2019	Piyooosh Sharma, Avanish Tripathi, Prabhash Nath Tripathi, Prashant Salunke, Dr. Sushant Kumar Srivastava	Pharmaceutics
36	SYNTHESIS OF N-BENZYLPIPERIDINE AND 5-(2,4-		24-08-2019	Piyooosh Sharma, Avanish Tripathi, Prabhash Nath	Pharmaceutics

	DICHLOROPHENYL)-1,3,4-OXADIAZOLE HYBRID WITH MULTIFUNCTIONAL ACTIVITIES AGAINST ALZHEIMER'S DISEASE	2019 1103 4164		Tripathi, Ashok Avhad, Dr. Sushant Kumar Srivastava	
37	N-{1-Benzylpiperidin-4-yl}-5-{4-{trifluoromethyl}phenyl}-1,3,4-oxadiazol-2-amine as multitargeted ligand to treat Alzheimer's disease	2019 1103 4930	29-08-2019	PiyooSh Sharma, Avanish Tripathi, Priyanka Kumari Choubey, Dr. Sushant Kumar Srivastava	Pharmaceutics
38	SYNTHESIS OF 2-(4-BROMOPHENYL)-5-(4-(TRIFLUOROMETHYL)PHENYL)-1,3,4-OXADIAZOLE FOR TREATING ALZHEIMER'S DISEASE AND METHOD OF PREPARATION THEREOF	2019 1103 4931	29-08-2019	PiyooSh Sharma, Avanish Tripathi, Priyanka Kumari Choubey, Dr. Sushant Kumar Srivastava	Pharmaceutics
39	A PROCESS FOR EFFICIENT BIOREMEDIATION OF CHEESE WASTEWATER	2019 1103 6799	12-09-2019	Dr. Sanjay kumar, Dr. Sameer Srivastav, Ashutosh Upadyay	Bio Chemical Engg
40	CONSTRUCTION BRICKS USING INDUSTRIAL WASTE WITH SIMPLE COMPOSITION AND PROCESS OPTIMIZATION	2019 1103 6988	13-09-2019	Dr. Kalyani mohanta, mr. Vaibhv pandey, dr. Ajay kumar	Ceramic Engg
41	SYSTEM FOR SPATION TEMPORAL TRAFFIC DATA REPORTING FOR SMART CITY SERVICES	2019 1103 7645	18-09-2019	Dr. Ankit gupta, Mr. Sumit Mishra	Civill Engg
42	A HIGHLY POROUS LIGHT WEGHT CERAMIC FOAM AND A PROCESS OF PREPARATION THEREOF	2019 1103 8240	23-09-2019	Dr. Kalyani mohanta, Mr. Vaibhav Pandey, Dr Ajay Kumar	Ceramic Engg
43	A NOVEL PROCESS FOR SYNTHESIS OF METAL NANOPARTICLES AND PRODUCT THEREOF	2019 1103 8744	25-09-2019	Dr. Marshal, Juhi Jaiswal	Bio Medical Engg

44	REBAMIPIDE LOADED TRANSDERMAL PATCH FOR NEURODEGENERATIVE DISEASE	2019 1103 9568	30-09-2019	Dr. S. Krishnamurty, Ms. Akansha Mishra	Pharmaceutics
45	AN IMPROVED NOZZLE ASSEMBLY FOR UNIFORM FLUID DELIVERY	2019 1104 1364	12-10-2019	Mr. Prashant Srivastava, Dr. Amitesh Kumar	Mechanical Engg.
46	LATENT FINGERPRINT IMAGING RARE EARTH DOPED METAL OXIDE BASED NANOPHOSPHORS	2019 1104 2913	22-10-2019	Dr. Chandana rath, Sandeep Kumar	SMST
47	FMG SENSOR FOR HAND PROSTHESIS APPLICATION	2019 1104 3042	23-10-2019	Alok prakash, Dr. Shiru Sharma, Dr. Neeraj Sharma	Bio Medical Engg
48	NOVEL SULFONAMIDE DERIVATIVES OF PARA AMINO BENZOIC ACID FOR THE TREATMENT OF ALZHEIMER'S DISEASE	2019 1104 4199	31-10-2019	Prof. Sushil Kumar Singh, Dr. Ashok Kumar, Mr Ravi Singh, Mr. Gore Pravin Gangaram, Mr. Devendra Kumar, Mr. Gopichand Gutti, Mr. Ankit Ganeshpurkar	Pharmaceutics
49	A THREE-DIMENSIONAL SCAFFOLD FOR CARTILAGE TISSUE REGENERATION AND METHOD OF PREPARATION THEREOF	2019 1104 4200	31-10-2019	Prof. Pradeep Srivastava, Dr. Bhisham Narayan Singh	Bio Chemical Engg
50	AN IMPROVED HDR BRACHYTHERAPY APPLICATOR APPARATUS	2019 1104 4724	04-11-2019	Neeraj Sharma, Lalit Mohan Aggarwal, Ankur Mourya, Mr. Pranjal Aggarwal, Dr. Uday P Shahi	Biomedical Engg and Dept. of Radiotherapy & Radiation Medicine (IMS BHU)
51	A NOVEL BIOACTIVE COMPOSITE SCAFFOLD AND A METHOD OF PREPARATION THEREOF	2019 1104 5141	06-11-2019	Prof. Pradeep Srivastava, Dr. Bhisham Narayan Singh	Bio Chemical Engg

<b>52</b>	A COLLOIDAL QUANTUM DOTS (QDS) BASED ION SENSITIVE FIELD EFFECT TRANSISTOR	2019 1104 9752	03-12-2019	Prof. S. Jit, Dr. Hemant Kumar	Electronics Engg
<b>53</b>	A THERMALLY EFFICIENT OVER-EXPANSION STROKE BASED ENGINE	2019 1105 0006	04-12-2019	Jeewan Vachan Tirkey, Shailendra Kumar Shukla	Mechanical Engg

## List of Patents filed in the Year-2018

Sl. No.	Title	Application No.	Filing Date	Inventor's Name	Department
1.	COMPOSITION OF RESVERATROL-LOADED HYBRID NANOPARTICLES AND A METHOD OF PREPARATION THEREOF	201811012870	04-04-2018	Prof. Sanjay Singh ; Mr. Vijaykumar M.R.	Pharmaceutics
2.	A NANOCARRIER FOR DELIVERING GENETIC MATERIALS AND A METHOD OF PREPARATION THEREOF	201811004496	06-02-2018	Prof. Pralay Maiti, Sudipta Senapati	SMST
3.	A METHOD FOR SYNTHESIS OF CERIUM(IV) PYROPHOSPHATE COMPOUNDS	201811004846	08-02-2018	Dr. Bhupendra Singh, Lakshya Mathur, Sandeep Kumar Gautam, Devendra Kumar	Ceramic Engg
4.	A SYSTEM AND METHOD FOR GENERATING REAL-TIME TEXT PRESERVED OIL PAINTING USING SMART-DEVICE	201811010854	23-03-2018	Dr. Tanima Dutta Dr. Hari Prabhat Gupta & Mr. Sabyasachi Mohanty	Computer Science & Engineering
5.	TRIVALENT AI+3 DOPED MAGNETITE AND A METHOD OF PREPARATION THEREOF	201811002355	19-01-2018	Dr. Nand Kishore Prasad, Prof. R.K.Mandal, Manas Srivastav	Metallurgical Engg
6.	A THREE DIMENSIONAL POROUS PSYLLIUM HUSK-BASED COMPOSITE SCAFFOLD	201811004845	08-02-2018	Dr. Sanjeev Kumar Mahto, Suruchi Poddar, Agarawal Piyush Sunil	Bio Medical Engg
7.	A METHOD OF MANUFACTURING SYNTHETIC WOLLASTONITE BY UTILIZING WASTE MATERIALS	201811002872	24-01-2018	Dr. P.K. Roy, SK Saddam Hossain	Ceramic Engg
8.	METHOD OF MANUFACTURING COMBINED TYPE HUMIDITY SENSOR BASED ON TUNGSTEN DOPED Y-TYPE BARIUM HEXAFERRITE	201811004844	08-02-2018	Mr. Mukesh Suthar, Dr. P.K. Roy	Ceramic Engg
9.	FUNCTIONALIZED GRAPHENE OXIDE BASED NANOPROBES	201811009385	14-03-2018	Prof. Pralay Maity, Sudipta Senapati	SMST

10.	HIGH ENERGY, HIGH CURIE TEMPERATURE FERRITES FOR HIGH POWER APPLICATIONS	201811009240	13-03-2018	Deepshikha Shekhawat, Dr. P.K. Roy	Ceramic Engg
11.	A PORTABLE TEST KIT FOR DETECTION OF GLUCOSE IN BIOLOGICAL FLUIDS AND A METHOD THEREOF	201811009239	13-03-2018	Prof. RAJIV PRAKASH,VINITA,NARSINGH R. NIRALA	SMST
12.	A PORTABLE BIOSENSING SYSTEM AND METHOD FOR VISUAL DETECTION OF GLUCOSE IN BIOLOGICAL FLUIDS	201811010352	21-03-2018	Prof. RAJIV PRAKASH,NARSINGH R. NIRALA,VINITA	SMST
13.	A POLYMER OR 2D NANO-COMPOSITE FILM AND A METHOD OF PRODUCTION THEREOF	201811013068	05-04-2018	Prof. RAJIV PRAKASH, Dr. Rajiv Kumar Pandey	SMST
14.	A BIOACTIVE GLASS AS AN ORTHODONTIC ADHESIVE AND A METHOD OF PRODUCTION THEREOF	201811014080	12-04-2018	Prof. Pralay Maity, Sudipta Senapati, SMST & Ajit V. Parihar, Sadhana Swaraj, T.P. Chaturvedi, FDS,IMS,BHU	SMST & FDS, IMS BHU
15.	EMG SENSOR FOR PROSTHETIC HAND CONTROL	201811016601	02-05-2018	Alok Prakash, Bindu Kumari, Dr. Shiru Sharma, Dr. Neeraj Sharma	Bio Medical Engg
16.	FORMULATION OF SILVER CONTAINING BIOACTIVE GLASS	201811017805	11-05-2018	Dr. S. Krishnamurthy, Mr. Pankaj paliwal	Pharmaceutics
17.	A BIO-WASTE POLYMER HYBRID WITH HIGH ENERGY HARVESTING EFFICIENCY	201811016816	03-05-2018	Prof. Pralay Maity, Anupma Gaur, ShivamTiwari- SMST & Dr. Sanjay Kumar Rai, Chandan Kumar- School of Biomedical Engg.	SMST & Bio Medical Engg
18.	FABRICATION OF CERAMIC BOARD THROUGH SOLID-STATE SINTERING METHOD BY UTILIZING WASTE MATERIALS	201811016451	01-05-2018	Dr. P.K. Roy, SK Saddam Hossain	Ceramic Engg
19.	FABRICATION OF CERAMIC BOARD THROUGH ROOM TEMPERATURE CURING PROCESS BY UTILIZING WASTE MATERIALS	201811016452	01-05-2018	Dr. P.K. Roy, SK Saddam Hossain	Ceramic Engg

20.	NANOHYBRID WITH HIGH ENERGY HARVESTING EFFICIENCY	201811018838	19-05-2018	Prof. Pralay Maity, Anupma Gaur, ShivamTiwari- SMST & Chandan Kumar- School of Biomedical Engg.	SMST & Bio Medical Engg
21.	A STABILIZED GREEN PRODUCT/COMPOSITION FROM HAZARDOUS JAROSITE WASTE AND PROCESS OF PREPARATION THER	201811028367	27-07-2018	Chayan Gupta, Prof. Arun Prasad	Civil Engg
22.	COMPOSITIONS AND METHODS FOR REDUCING CELL VIABILITY	62664836 (US PATENT)	30-04-2018	Dr. Rakesh k Srivastava, Sharmila Shankar, Dr. Sushant Kumar Srivastava	Pharmaceutics
23.	METHODS FOR TREATING CANCER AND METABOLIC SYNDROME	62666855 (US PATENT)	04-05-2018	Dr. Rakesh k Srivastava, Sharmila Shankar, Dr. Sushant Kumar Srivastava	Pharmaceutics
24.	A MICRO-FLUIDIC PLATFORM FOR LOW DENSITY CULTURE OF CELLS AND A METHOD FOR CONTROLLING THE SAME	201811024410	29-06-2018	Dr. Sanjeev Kumar Mahto, Suruchi Poddar	Bio Medical Engg
25.	A METHOD TO REDUCE SUSPENDED PARTICULATE MATTER IN AIR	201811027390	21-07-2018	Akhilesh Kumar Yadav, Dr. Aarif Jamal	Mining Engg.
26.	A SYSTEM FOR REDUCING HEAT LOSS IN BRICK KILNS	201811021148	06-06-2018	Dr. Jyoti Prasad Chakraborty	Chemical Engg
27.	A DEVICE FOR MODELLING SOFTWARE CLONE EVOLUTION ACROSS DIFFERENT VERSIONS AND A METHOD THEREOF	201811016656	02-05-2018	Prof. K. K. Shukla, Jayadeep Pati	Computer Science & Engineering
28.	POROUS SILICA SHAPES AND MANUFACTURING PROCESS THEREOF	201811025421	06-07-2018	Dr. Kalyani mohanta	Ceramic Engg

29.	A NOVEL FORMULATION OF DABIGATRAN SOLID DISPERSION FORMULATION AND A METHOD OF PREPARATION THEREOF	201811029316	03-08-2018	Dr. S. Krishnamurthy, Mr. Pankaj paliwal	Pharmaceutics
30.	A SYRINGE WITH CONTROLLED VOLUME DISPENSING SYSTEM	201811030441	14-08-2018	Dr. Sanjeev Kumar Mahto, Ajay Kumar Sahi, Snehalata Rai	Bio Medical Engg
31.	A MULTI-UTILITY EQUIPMENT	201811033581	06-09-2018	Dr. Alakh N. Sahu, Dharmendra Yadav	Pharmaceutics
32.	A NOVEL BARIUM BIOACTIVE GLASS (BaBG) FORMULATION AND A METHOD THEREOF	201811033966	10-09-2018	Dr. S. Krishnamurthy, Mr. Pankaj paliwal, Smriti Gupta	Pharmaceutics
33.	A CYCLODEXTRIN GRAFTED POLYURETHANE HYDROGEL FOR DRUG DELIVERY AND A METHOD OF MAKING THE SAME	201811035914	24-09-2018	Dr. Santanu Das, Mr. Rajarshi Bhattacharya, Dr. Tapas Kumar Bhattacharya, Dr. Somak Bhattacharya, Prof Pralay Maiti	Ceramic Engg, SMST, Electronics Engg
34.	AN INSULATION BRICK AND METHOD OF PREPARATION THEREOF	201811033258		Dr. Arup Kumar Mandal, Prof O. P. Sinha	Metallurgical Engg
35.	A BIOREACTOR FOR CULTURING OF LIVING CELLS OR TISSUES	201811038940	13-10-2018	Prof. Pradeep Srivastava, Satyavrat Tripathi, Divakar Birendra kumar Singh	Bio Chemical Engg
36.	A BIOACTIVE GLASS DRUG FORMULATION FOR BONE REPAIR AND REGENERATION AND A METHOD OF PREPARATION THEREOF	201811040152	24-10-2018	Dr. S. Krishnamurthy, Mr. Pankaj paliwal	Pharmaceutics

37.	AN ALKALINE EARTH METAL DOPED ZINC OXIDE NANOSHEETS AND METHOD OF PREPARATION THEREOF	201811044916	28-11-2018	Dr. Santanu Das, Abesh Banerjee Department of Biochemistry, University of Calcutta	Ceramic Engg
38.	A NOVEL HYDROGEL WITH HIGH MECHANICAL STABILITY AND A METHOD OF MAKING THE SAME	201811045481	01-12-2018	Pradip Paik	Bio Medical Engg
39.	SOLAR AIR HEATER	201811045795	04-12-2018	Dr. Om Prakash Singh, Ajeet Pratap Singh	Mechanical Engg.
40.	A STRONTIUM BASED RARE EARTH FREE HIGH ENERGY PERMANENT MAGNET FOR DC MOTOR APPLICATION AND A METHOD OF SYNTHESIS THEREOF	201811048780	22-12-2018	Dr. P.K. Roy, Deepshikha Shekhawat	Ceramic Engg
41.	A NOVEL NANO-BINDER IN CASTABLE REFRACTORY AND A METHOD OF PREPARATION THEREOF	201811049448	27-12-2018	Dr. P.K. Roy, SK Saddam Hossain	Ceramic Engg
42.	HOPPER	201811049831	29-12-2018	Dr. Vishal Misra	Bio Chemical Engg

### List of Patents filed in the Year-2017

Sl. No.	Title	Application No.	Filing Date	Inventor's Name	Department
1.	A Medicated Biodegradable patch for Treating Wounds and a Method Thereof	201711003060	27-01-2017	Prof. Pralay Maity ; Prof. Manoranjan sahu ; Mr. Arpan Biswas	SMST ; IMS Ayurveda
2.	A METHOD FOR RAPID 3D PROTOTYPING OF SKELETAL MUSCLE TISSUE CONSTRUCTS USING A NOVEL COMPOSITION OF BIO-INK	201711004598	08-02-2017	Dr. S. K. Mahato ; Ashutosh Bandyopadhyay & Vimal Kumar Dewangan	Bio Medical Engg
3.	High Capacitance Electrode for Pseudocapacitors and a Method of Preparing the same.	201711007782	06-03-2017	Prof. Rajiv Prakash & Dr. Asha Gupta (RA)-SMST; Dr. Preetam Singh	SMST & Ceramic Engg
4.	A System and Method for Real-Time Cattle recognition using Muzzle Images	201711008958	15-03-2017	Dr. Sanjay Kumar Singh, Dr. Tanima Dutta, Dr. Hari Prabhat Gupta, Mr. Santosh Kumar	Computer Science and Engineering
5.	AN ORAL COMPOSITION OF INDOLE-3-CARBINOL AND A METHOD OF PREPARATION THEREOF	201711026941	28-07-2017	Dr. Sairam krishnamurthy ; Mr. Pankaj Paliwal ; Gaurav Chauhan	Pharmaceutics
6.	A PSA BIO-SENSING PLATFORM WITH GRAPHENE QUANTUM DOT-GOLD NANO-PARTICLE ELECTRODE AND A METHOD THEREOF	201711035660	07-10-2017	Prof. Rajiv Prakash & Narsingh Raw Nirala ; Monika Srivastava	SMST
7.	A REAL TIME WRITING INSTRUMENT GRIP AND MOTION MONITORING SYSTEM	201711028197	08-08-2017	Dr. Hari Prabhat Gupta, Dr. Tanima Dutta & Ms. Surabhi Saraswat	Computer Science & Engineering
8.	Cholinesterase Inhibiting Compounds, Composition and Process thereof.	201611011127	23-03-2017	Dr. S. K. Srivastava , Saurabh K Sinha	Pharmaceutics
9.	A METHOD OF SYNTHESIS OF SOFT HARD FERRITES	201711025371	17-07-2017	Dr. P.K. Roy, SK Saddam Hossain, Deepshikha Shekhawat	Ceramic Engg

10.	CERAMIC MATRIX COMPOSITE OF FERRITE AND FERROELECTRIC COMPOUND AND A METHOD OF SYNTHESIS THEREOF	201711029705	22-08-2017	Dr. P.K. Roy, SK Saddam Hossain	Ceramic Engg
11.	GREEN METHOD FOR FAST REDUCTION OF GRAPHENE OXIDE	201711036056	11-10-2017	Dr. Santanu Das, shaikh Mohammad Zaeem :: Ceramic Engg	Ceramic Engg
12.	A PHARMACEUTICAL COMPOSITION OF SULFONAMIDE DERIVATIVES FOR THE TREATMENT OF ALZHEIMER'S DISEASE	201711041328	18-11-2017	Dr. S.K. Singh, Dr. G. P. Modi, Mr. D. Kumar, Ms. R. Swetha, Mr. C. Gayen, Mr. A. Ganeshpurkar :: Pharmaceutics	Pharmaceutics
13.	HIGH SURFACE AREA, HIGH PURITY AND HIGH CONDUCTANCE MONO-LAYERED REDUCED GRAPHENE OXIDE	201711043028	30-11-2017	Dr. Santanu Das, shaikh Mohammad Zaeem, Nitish Agrawal :: Ceramic Engg	Ceramic Engg
14.	A SELF-EXPANDING SHAPE-MEMORY POLYMER NANOHYBRID AND A METHOD OF PREPARING THE SAME	201711030194	25-08-2017	Prof. Pralay Maity & Arpan Biswas:: SMST	SMST
15.	AN ORAL BIOACTIVE GLASS FORMULATION CONTAINING AQUEOUS MICRONIZED BARIUM OXIDE FOR TREATING GASTRO-DUODENAL ULCERS	201711031854	08-09-2017	Dr. S. Krishnamurthy, Mr. Pankaj paliwal, :- Pharmaceutics :: Mr. S. K. Arepalli :- Ceramic Engg	Pharmaceutics & Ceramic Engg
16.	A BIOACTIVE GLASS BASED FORMULATION FOR TREATING CEREBRAL ISCHEMIC REPERFUSION INJURY AND METHOD THEREOF	201711032099	11-09-2017	Dr. S. Krishnamurthy, Mr. Pankaj paliwal, :- Pharmaceutics	Pharmaceutics
17.	A METHOD AND SYSTEM FOR IDENTIFYING CATTLE BY COMBINING UNIQUE IDENTIFICATION OF OWNER AND CATTLE	201711032865	16-09-2017	Dr. Sanjay Kumar Singh, Debanjan Sadhya, Anshul Sharma,RAVI SHANKAR SINGH,KUNDAN KUMAR,RISHAV SINGH	Computer Science & Engineering
18.	SELF ADJUSTING FIXED TYPE JETTY AND A PROCESS OF ADJUSTING THEREOF	201711031587	06-09-2017	Dr. K.K. Pandey, Dr. Rajesh Kumar, Ankit Patel, Achin Agrawal	Civil Engg
19.	HIGH TEMPERATURE APPLICABLE BINDER FROM EGG SHELL AND A METHOD OF SYNTHESIS THEREOF	201711035361	05-10-2017	Dr. P.K. Roy, SK Saddam Hossain	Ceramic Engg
20.	A STRONTIUM-BASED HIGH ENERGY HARD MAGNET AND A METHOD OF PRODUCTION THEREOF	201711041329	18-11-2017	Dr. P.K. Roy, Deepshikha Shekhawat	Ceramic Engg
21.	A BIOACTIVE GLASS SCAFFOLD AND A METHOD OF PREPARATION THEREOF	201711035474	06-10-2017	Dr. S. Krishnamurthy, Mr. Pankaj paliwal, Shreyasi Majumdar, :-	Pharmaceutics & Ceramic Engg

				Pharmaceutics :: Mr. S. K. Arepalli :- Ceramic Engg	
22.	"METHOD OF MANUFACTURING OF CERAMICS BY UTILIZING WASTE MATERIALS"	201711038451	30-10-2017	Dr. P.K. Roy, SK Saddam Hossain, Ram Pyare	Ceramic Engg
23.	A NOVEL POLYMERIC PATCH FOR TREATING MELANOMA CANCER AND A METHOD THEREOF	201711045345	18-12-2017	Prof. Pralay Maity, Aparna Shukla, Akhand Pratap Singh	SMST
24.	A METHOD TO ENHANCE THERMAL STABILITY AND EFFICIENCY IN POROUS FLUOROPOLYMER HYBRID MEMBRANE	201711027183	31-07-2017	Prof. Pralay Maity, Om Prakash	SMST
25.	A COMPOSITION AND METHOD TO PREPARE NATURALLY PRESERVED AND UNIFORMLY COOKING HEALTH FOOD	201711031556	06-09-2017	Dr. P. K. Mishra & Ms. Neha Srivastava:: Chemical Engg	Chemical Engg
26.	SUBSTRATE-ASSISTED SYNTHESIS OF DIVERSE MORPHOLOGIES OF UPCONVERTING NANOMATERIALS	201711014647	25-04-2017	Dr. Manoj Kumar ; Mr. Sudhir Ranjan & Prof. Rajiv Prakash	Chemical Engg & SMST
27.	GREEN SYNTHESIS PROCESS OF UPCONVERTING NaYF <sub>4</sub> :Yb <sup>3+</sup> ,Tm <sup>3+</sup> NANOMATERIALS AND PRODUCTS THEREOF	2017 1101 8827	29-05-2017	Dr. Manoj Kumar ; Mr. Sudhir Ranjan	Chemical Engg

### List of Patents filed in the Year-2016

Sl. No.	Title	Application No.	Filing Date	Inventor's Name	Department
1.	Advanced Electrode Materials for Superior Psuedocapacitors and Reversible Alkali-ion (Li+ /Na+) Batteries	201611007934	04-03-2016	Dr. Preetam Singh ; Prof. Rajiv Prakash	Ceramic Engg/ SMST
2.	A Fermenter for Enhanced Bio-Hydrogen Production through Fermentative Route	201611011909	04-04-2016	Prof. P. K. Mishra ; Neha Srivastava	Chemical Engg
3.	A Method and System for Variable Film Deposition on a Solid Substate	201611016344	10-05-2016	Dr. Manoj Kumar	Chemical Engg
4.	Topical Composition for treatment of Burns with Enhanced Penetration and Method of Formulating The Same	201611020044	11-06-2016	Aparajita Dutta ; Gyanendra Singh ; Prof. A. K. Srivastava	Pharmaceutics
5.	A Biomass Composition for thermal Insulation and Method of Manufacturing the same	201611024361	15-07-2016	Dr. M. R. Majhi ; SK Saddam Hossain & Aman Bhardwaj	Ceramic Engg
6.	A Device with Improved Modulation Cavity for High Pulse Microwave Signal Generation and Method Thereof	201611032924	27-09-2016	Manpuran Mahato ; Prof. P. K. Jain	Electronics Engg
7.	A Method for Controlled Biodegradation of Biopolymer using Inorganic Salt and Product Thereof.	201611029959	01-09-2016	Prof. Pralay maity ; Sunil Kumar	SMST
8.	A Composition for Bricks from Waste Materials and Method of manufacturing the Same	201631030744	08-09-2016	SK Saddam Hossain ; Lakshya Mathur & Dr. M. R. Majhi	Ceramic Engg
9.	A SOLUTION PHASE SYNTHESIS FOR DOPED/UNDOPED CERIUM(IV) PYROPHOSPHATE COMPOUNDS OF DIFFERENT MORPHOLOGIES	201611033229	29-09-2016	Dr. Bhupendra Singh	Ceramic Engg
10.	A PROCESS FOR PREPARING PYROPHOSPHATE-CARBONATE COMPOSITE IONIC CONDUCTORS AND THE PRODUCT THEREOF	201611035232	14-10-2016	Dr. Bhupendra Singh	Ceramic Engg
11.	A SYSTEM FOR CHANNELING AND ENCASING CONDITIONED AIR AROUND PROCESSING UNIT AND THE METHOD THEREOF	201611038371	10-11-2016	Dr. Ravindranath Chowdary Chandra ; Manajit Chakraborty	Computer Science & Engineering
12.	A Method for Preparing tiles and Composition Thereof.	201631039979	23-11-2016	SK Saddam Hossain ; Lakshya Mathur ; Dr. Preetam Singh & Dr. M. R. Majhi	Ceramic Engg

13.	A Method for Stabilizing An Ayurvedic Wound Healing Formulation	201611041318	02-12-2016	Prof. Pralay Maity ; Arpan Biswas ; Manori Amarajeewa & Dr. Manoranjan Sahu	SMST & IMS (Ayurveda)
14.	A Process for Producing Ph Independent Cellulose and Product Thereof.	201611043036	16-12-2016	Prof. P. K. Srivastava ; Neha Srivastava ; Manish Srivastava & Dr. P. W. Ramteke	Chemical Engg & Delhi Univ.
15.	'LEAD-FREE PIEZOELECTRIC CERAMICS WITH ENHANCED PIEZOELECTRIC AND STRAIN PROPERTIES AND A METHOD THEREOF';	201611043293	19-12-2016	Dr. P. K. Roy ; Dr. K.B.R. Verma & Dr. Bharti Ponraj	Ceramic Engg
16.	A Process to Produce High Energy Strontium Based Permanent Magnet and A Product Thereof.	201611043294	19-12-2016	Dr. P. K. Roy ; Deepshikha Shekhawat	Ceramic Engg

### List of Patents filed in the Year-2015

Sl. No.	Title	Application No.	Filing Date	Inventor's Name	Department
1.	A system and Method for Inrush and Fault Detection for Differential Protection of Transformer	2630/DEL/2015	25-08-2015	Prof. D.Singh, Prof. R.K. Mishra & Ms. Aprita Roy, Naveen Jha( Mathematics )	Electrical Engg
2.	A Novel Method to Prepare TiO <sub>2</sub> Nanoparticles Through A Hydrothermal Route	3022/DEL/2015	23-09-2015	Dr. C. Rath	SMST
3.	Apparatus for Alcohol Production by Fermentation with Integrated Reaction Cum Seperation Unit	3078/DEL/2015	28-09-2015	Prof. P K Mishra & Deepika Kushwaha	Chemical Engg
4.	A Method and System for Interacting with Computers or Other Electronic System based on dactylology	4114/DEL/2015	15-12-2015	Dr. Kishor Sarawadekar & Gourav Modanwal	Electronics Engg

### List of Patents filed in the Year-2014

Sl. No.	Title	Application No.	Filing Date	Inventor's Name	Department
1.	Technique For Protection Of Ferrocement From Corrosion	3663/DEL/2014	16-01-2015	Prof. M. A. Quraishi	Chemistry
2.	A Process For The Polyethylenimine And Organic Reducing Agent –Mediated Synthesis Of Noble Metal Nanoparticles, And Prussian Blue Nanoparticles Therefrom	4043/DEL/2014	01-07-2016	Prof. P.C. Pandey	Chemistry
3.	<b>Ploy (lactic acid) and process for preparation</b>	<b>236/Jan 28, 2014</b>		<b>Prof. S.N. Upadhyay</b>	<b>Chemical Engg</b>

## Patents Published in the year 2021

Sl. No.	Title	Description	Application No.	Filing Date	Inventor's Name	Department
1.	A FOAMING AGENT FOR POROUS CERAMICS AND A METHOD OF PREPARATION THEREOF	Published on 01/01/2021	2019 1102 5592	27-06-2019	Dr. Kalyani mohanta, Mr.Vaibhav Pandey, Dr. Ajay Kumar	Ceramic Engg
2.	HIGH POWER MICROWAVE SECTORAL WAVEGUIDE MODE CONVERTER	Published on 01/01/2021	2019 1102 5593	27-06-2019	Vikram Kumar, Dr. Smrity Dwivedi, Prof. Pradip kumar Jain	Electronics Engg
3.	A NOVEL SUSPENSION FOR THREE-DIMENSIONAL BIOPRINTING AND A METHOD OF PREPARATION THEREOF	Published on 29/01/2021	2019 1103 0419	27-07-2019	Dr. Sanjeev Kumar Mahto, Suruchi Poddar, Agarawal Piyush Sunil	Bio Medical Engg
4.	REORGANIZATION OF MOLECULES IN DISPOSED ABSORBENT MATERIALS INTO ENERGY PRODUCTS USING NANOCATALYST	Published on 29/01/2021	2019 1103 0344	26-07-2019	Dr. Poushpi Dwivedi, Dr. Dhanesh Tiwary, Prof. P. K. Mishra, Dr. Jyoti Prasad Chakraborty, Ritendra Kumar, Neetu Shingh	Chemistry & Chemical Engg.
5.	MACROPOROUS CERAMIC FOAM WITH HIGH POROSITY AND A PROCESS THEREOF	Published on 05/02/2021	2019 1103 0657	30-07-2019	Dr. Kalyani mohanta, Mr.Vaibhav Pandey, Dr. Ajay Kumar, Mr. Mayank kumar Yadav, Mr. Ashutosh Gupta	Ceramic Engg
6.	A NOVEL POLYMER BLEND UTILIZING WASTE PLASTICS AND PROCESS OF PREPARATION THEREOF	Published on 12/02/2021	2019 1103 1635	05-08-2019	Prof. Pralay Maity, Dipti Saxena	SMST
7	NOVEL QUINOLINYL PIPERAZINE DERIVATIVES FOR THE TREATMENT OF ALZHEIMER'S DISEASE	Published on 12/02/2021	2019 1103 2481	10-08-2019	Prof. Sushil Kumar Singh, Dr. Ashok Kumar, Dr. Dileep Kumar, Mr. Devendra Kumar, Mr. Gopichand Gutti, Mr. Ankit Ganeshpurkar	Pharmaceutics

<b>8.</b>	AN INTEGRATED CONTINUOUSLY OPERATED WASTEWATER TREATMENT SYSTEM WITH MICROALGAL BIOMASS PRODUCTION	Published on 12/02/2021	<b>2019 1103 1783</b>	06-08-2019	Dr. Vishal Mishra, Mr. Vishal Singh	Bio Chemical Engg
<b>9.</b>	SYNTHESIS OF N-BENZYLPIPERIDINE AND 5-(2,4-DICHLOROPHENYL)-1,3,4-OXADIAZOLE HYBRID WITH MULTIFUNCTIONAL ACTIVITIES AGAINST ALZHEIMER'S DISEASE	Published on 26/02/2021	<b>2019 1103 4164</b>	24-08-2019	PiyooSh Sharma, Avanish Tripathi, Prabhash Nath Tripathi, Ashok Avhad, Dr. Sushant Kumar Srivastava	Pharmaceutics
<b>10</b>	AN N-TYPE METAL OXIDE INTERFACE BASED THIN FILM TRANSISTOR AND A METHOD OF PREPARATION THEREOF	Published on 26/02/2021	<b>2019 1103 3524</b>	20-08-2019	Bhola Nath Pal, Anand Sharma, Nila Pal	SMST
<b>11</b>	A NOVEL COMPOUND FOR TREATING ALZHEIMER'S DISEASE AND A METHOD OF PREPARATION THEREOF	Published on 05/03/2021	<b>2019 1103 4300</b>	26-08-2019	PiyooSh Sharma, Avanish Tripathi, Priyanka kumari choubey, Dr. Sushant Kumar Srivastava	Pharmaceutics
<b>12</b>	SYSTEM FOR SPATIO-TEMPORAL TRAFFIC DATA REPORTING FOR SMART CITY SERVICES	Published on 19/03/2021	<b>2019 1103 7645</b>	22-04-2019	Dr. Ankit Gupta, Mr Sumit Mishra	Civil Engg
<b>13</b>	A PROCESS FOR EFFICIENT BIOREMEDIATION OF CHEESE WASTEWATER	Published on 19/03/2021	<b>2019 1103 6799</b>	12-09-2019	Dr. Sanjay Kumar, Dr. Sameer Srivastava, Ashutosh Upadhyay	Bio Chemical Engg
<b>14</b>	CONSTRUCTION BRICKS USING INDUSTRIAL WASTE WITH SIMPLE COMPOSITION AND PROCESS OPTIMIZATION	Published on 19/03/2021	<b>2019 1103 6988</b>	13-09-2019	Dr. Kalyani mohanta, Mr.Vaibhav Pandey, Dr. Ajay Kumar	Ceramic Engg

<b>15</b>	A HIGHLY POROUS LIGHT WEIGHT CERAMIC FOAM AND A PROCESS OF PREPARATION THEREOF	Published on 26/03/2021	<b>2019 1103 8240</b>	23-09-2019	Dr. Kalyani mohanta, Mr.Vaibhav Pandey, Dr. Ajay Kumar	Ceramic Engg
<b>16</b>	REBAMIPIDE LOADED TRANSDERMAL PATCH FOR NEURODEGENERATIVE DISEASE	Published on 02/04/2021	<b>2019 1103 9568</b>	30-09-2019	Dr. S. Krishnamurthy, Ms. Akansha Mishra	Pharmaceutics
<b>17</b>	LATENT FINGERPRINT IMAGING USING RARE EARTH DOPED METAL OXIDE BASED NANOPHOSPHORS	Published on 23/04/2021	<b>2019 1104 2913</b>	22-10-2019	Dr. Chandana Rath, Sandeep Kumar	SMST
<b>18</b>	FMG SENSOR FOR HAND PROSTHESIS APPLICATION	Published on 30/04/2021	<b>2019 1104 3042</b>	23-10-2019	Alok Prakash, Dr. Shiru Sharma, Dr. Neeraj Sharma	Bio Medical Engg
<b>19</b>	A THREE-DIMENSIONAL SCAFFOLD FOR CARTILAGE TISSUE REGENERATION AND METHOD OF PREPARATION THEREOF	Published on 07/05/2021	<b>2019 1104 4200</b>	31-10-2019	Prof. Pradeep Srivastava, Dr. Bhisham Narayan Singh	Bio Chemical Engg
<b>20</b>	A NOVEL BIOACTIVE COMPOSITE SCAFFOLD AND A METHOD OF PREPARATION THEREOF	Published on 07/05/2021	<b>2019 1104 5141</b>	06-11-2019	Prof. Pradeep Srivastava, Dr. Bhisham Narayan Singh	Bio Chemical Engg
<b>21</b>	AN IMPROVED HDR BRACHYTHERAPY APPLICATOR APPARATUS	Published on 07/05/2021	<b>2019 1104 4724</b>	04-11-2019	Neeraj Sharma, Lalit Mohan Aggarwal, Ankur Mourya, Mr. Pranjal Aggarwal, Dr. Uday P Shahi	Biomedical Engg and Dept. of Radiotherapy & Radiation Medicine (IMS BHU)

22	NOVEL SULFONAMIDE DERIVATIVES OF PARA AMINO BENZOIC ACID FOR THE TREATMENT OF ALZHEIMER'S DISEASE	Published on 07/05/2021	2019 1104 4199	31-10-2019	Prof. Sushil Kumar Singh, Dr. Ashok Kumar, Mr Ravi Singh, Mr. Gore Pravin Gangaram, Mr. Devendra Kumar, Mr. Gopichand Gutti, Mr. Ankit Ganeshpurkar	Pharmaceutics
23	A COLLOIDAL QUANTUM DOTS (QDS) BASED ION SENSITIVE FIELD EFFECT TRANSISTOR	Published on 04/06/2021	2019 1104 9752	03-12-2019	Prof. S. Jit, Dr. Hemant Kumar	Electronics Engg
24	A THERMALLY EFFICIENT OVER-EXPANSION STROKE BASED ENGINE	Published on 11/06/2021	2019 1105 0006	04-12-2019	Jeewan Vachan Tirkey, Shailendra Kumar Shukla	Mechanical Engg
25	A NOVEL POROUS SCAFFOLD FOR ORTHOPEDIC APPLICATION AND A METHOD OF PREPARATION THEREOF	Published on 16/07/2021	2020 1100 1700	14-01-2020	Dr. Kalyani mohanta, Mr. Mayank Kumar Yadav, Mr.Vaibhav Pandey, Dr. Ajay Kumar	Ceramic Engg
26	SOLAR AIR HEATER WITH TROMBE WALL	Published on 30/07/2021	2020 1100 3336	24-01-2020	Dr. Om Prakash Singh, Ajeet Pratap Singh	Mechanical Engg.
27	AN ARSENIC RESISTANT BACTERIUM STRAIN	Published on 30/07/2021	2020 1100 3640	27-01-2020	Dr. Vishal Mishra, Mr. Vipul Kumar Yadav	Bio Chemical Engg
28	A METHOD OF PREPARING BENZALDEHYDE THROUGH CATALYTIC OXIDATION	Published on 13/08/2021	2020 1100 5531	07-02-2020	Dr. P.K. Roy, Mr. Mukesh Suthar	Ceramic Engg
29	A NOVEL COMPOSITION FOR SURFACE MODIFICATION OF ANODE FOR ELECTROCHEMICAL APPLICATION	Published on 20/08/2021	201911018781	10-05-2019	Dr. Sanjay Kumar, Dr. Radha Rani, Geetanjali	Bio Chemical Engg

<b>30</b>	A NOVEL PROCESS FOR SYNTHESIS OF METAL NANOPARTICLES AND A PRODUCT THEREOF	Published on 03/09/2021	<b>201911038774</b>	25-09-2019	Dr. Marshal, Juhi Jaiswal	Bio Medical Engg
<b>31</b>	A METHOD FOR PREPARING THREE DIMENSIONAL NANOFIBROUS COMPOSITE SCAFFOLD AND A PRODUCT THEREOF	Published on 20/08/2021	<b>202011006354</b>	13-02-2020	Dr. Sanjeev Kumar Mahto, Suruchi Poddar, Agarawal Piyush Sunil	Bio Medical Engg
<b>32</b>	A TWO DIMENSIONAL PHOTSENSITIVE METAL OXIDE SEMICONDUCTOR (MOS) CAPACITOR	Published on 22/10/2021	<b>2020 1101 7140</b>	21-04-2020	Santanu Das, Raja Kumar (Ceramic), Prof. S. Jit, Dr. Chandan Kumar(Electronics)	Ceramic Engg
<b>33</b>	EXTENDED LARGER AREA HETEROJUNCTION BASED BIO-SENSING DEVICE	Published on 08/10/2021	<b>2020 1101 4307</b>	31-03-2020	Uvanesh Kasiviswanathan, Prof. Neeraj Sharma, Prof. Satyabrata Jit, Dr. Chandan Kumar, Dr. Sanjeev Kumar Mahto, Suruchi Poddar	Bio Medical Engg and Electronics Engg
<b>34</b>	AN IMPROVED NOZZLE ASSEMBLY FOR UNIFORM FLUID DELIVERY	Published on 20/08/2021	<b>2019 1104 1364</b>	12-10-2019	Mr. Prashant Srivastava, Dr. Amitesh Kumar	Mechanical Engg
<b>35</b>	METHOD FOR FABRICATING A GAS SENSOR BY DEVELOPING THIN SOLID POLYMERIC FILM	Published on 27/08/2021	<b>2020 1100 5745</b>	10-02-2020	Prof. RAJIV PRAKASH, Subhajit Jana	SMST
<b>36</b>	A COMPOSITION OF AUSTENITIC STAINLESS STEEL FOR MEDICAL IMPLANTS	Published on 15/10/2021	<b>2020 1101 5355</b>	07-04-2020	Dr. G. S. Mahobia, Chadra Shekhar Kumar, Dr. Vakil Singh	Metallurgical Engg

<b>37</b>	AN ECO-FRIENDLY METHOD OF FABRICATING MULLITE FOAM AND A PRODUCT THEREOF	Published on 15/10/2021	<b>2020 1101 5428</b>	08-04-2020	Dr. P.K. Roy, SK Saddam Hossain	Ceramic Engg
<b>38</b>	THREE ELECTRODE SYSTEM FOR INACTIVATION OF BACTERIAL CELLS	Published on 15/10/2021	<b>2020 1101 5621</b>	09-04-2020	Dr. Marshal, Ashish Kumar Singh, Juhi Jaiswal	Bio Medical Engg
<b>39</b>	MULTITARGET-DIRECTED TRIAZOLE BRIDGED CYCLOARYL ANALOGUES FOR TREATMENT OF ALZHEIMER'S DISEASE	Published on 15/10/2021	<b>2020 1104 7641</b>	31-10-2020	Gopichand Gutti, Shushil Kr. Singh, Devendra Kumar, Ravi Singh, Ashok Kumar, Mr. A. Ganeshpurkar	Pharmaceutics
<b>40</b>	A METHOD OF DEMINERALIZATION OF SCALES, SHELLS AND BONES	Published on 15/10/2021	<b>2020 1104 5547</b>	19-10-2020	Dr. Vishal Mishra, Anadi Gupta	Bio Chemical Engg
<b>41</b>	A METHOD OF PREPARING MULTIWALLED CARBON NANOTUBES	Published on 29/10/2021	<b>2020 1101 7647</b>	24-04-2020	Ashish Kumar Mishra, Shanu Mishra, Somesh Sunil Jaiswal	SMST
<b>42</b>	A METHOD OF FABRICATING DENSITY GRADIENT MULTI-LAYERED SPINEL REFRACTORY AND A PRODUCT THEREOF	Published on 29/10/2021	<b>2020 1101 7635</b>	24-04-2020	Dr. P.K. Roy, SK Saddam Hossain	Ceramic Engg
<b>43</b>	A MULTIFUNCTIONAL DIARYLUREA-HYDROXYAMIDINE BASED COMPOUND FOR TREATMENT OF ALZHEIMER DISEASE	Published on 29/10/2021	<b>2021 1100 1482</b>	12-01-2021	G.P. Modi, Yash Pal Singh, Gaurav Singh, Gauri Shankar, Chinthala S. Praveen Kumar, Meenu Yadav	Pharmaceutics

44	A METHOD FOR DEVELOPMENT OF SYNERGISTIC NANO HYBRID STRUCTURE ON NANORODS	Published on 29/10/2021	2021 1102 8517	25-06-2021	Dr. Santanu Das, Mr. Vivek Kumar Singh, Dr. Bratindranath Mukherjee	Ceramic Engg
45	AN IMPROVED SOLAR STILL ASSEMBLY FOR PURIFICATION OF RAW WATER	Published on 29/10/2021	2021 1100 0980	08-01-2021	Prof. Shailendra Kumar Shukla, Dr. Jeevan Vachan Tirkey	CERD-Mechanical Engg.
46	AN IMPROVED ORGANIC RANKINE CYCLE SYSTEM WITH COUPLED DIFFUSION ABSORPTION REFRIGERATION EFFECT	Published on 29/10/2021	2021 1100 0822	07-01-2021	Prof. Shailendra Kumar Shukla, Dr. Jeevan Vachan Tirkey, Mr. Saurabh Pathak, Mr. Tarun Singh	Mechanical Engg.
47	A THREE DIMENSIONALLY(3D) PRINTED PHANTOM FOR COMMISSIONING OF GYNAECOLOGICAL BRACHYTHERAPY APPLICATORS	Published on 29/10/2021	2020 1104 5297	17-10-2020	Dr. Sanjeev Kumar Mahto, Ajay Kumar Sahi, Mr. Vinay Saini, Prof. Satyajit Pradhan	Bio Medical Engg and MPMCC (TMC)
48	A DRUG LOADED THERMOSENSITIVE POROUS POLYMER FILM AND A METHOD OF PREPARATION THEREOF	Published on 29/10/2021	2021 1100 9754	09-03-2021	Dr. Pradip Paik	Bio Medical Engg
49	A GLASS MATRIX COMPOSITION FOR CONVERSION OF A BARREN LAND INTO A FERTILE LAND	Published on 29/10/2021	2021 1101 1563	18-03-2021	Dr. R. K. Chaturvedi (Senior Scientific Officer)	Ceramic Engg
50	A NANOHERBICIDAL COMPOSITION AND A METHOD FOR ITS PREPARATION AND USES THEREOF	Published on 29/10/2021	2021 1100 2570	19-01-2021	Reshu Bhardwaj, Preeti Maiti, Prof. Ram kumar Singh, Om Prakash, Prof. Pralay Maiti	Deptt. Of Agronomy, Institute OF Agriculture Sciences, SMST

<b>51</b>	A CHIRAL HOLLOW POLYMERIC NANOCAPSULE WITH DEFINED OPENING AND A PROCESS FOR ITS PREPARATION	Published on 29/10/2021	<b>2021 1100 7198</b>	20-02-2021	Dr. Pradip Paik	Bio Medical Engg
<b>52</b>	A METHOD AND A KIT FOR DETECTING CONCENTRATION OF ANTI-TUBERCULOSIS DRUG IN A BIOLOGICAL SAMPLE	Published on 29/10/2021	<b>2021 1101 1562</b>	18-03-2021	Ravi Prakash Ojha, Shweta Pal, Rajiv Prakash	SMST
<b>53</b>	SYSTEM AND METHOD FOR ENERGY MANAGEMENT AND VOLTAGE CONTROL THROUGH GRID-CONNECTED COMMUNITY ENERGY RESOURCES	Published on 29/10/2021	<b>2021 1103 3576</b>	26-07-2021	Prof. Shiv Pujan Singh, Shailendra Singh	Electrical Engg.
<b>54</b>	A NATURAL TEMPLATE BASED ANTICHOLINESTRASE INHIBITORS AND ANTIOXIDANTS FOR TREATMENT OF ALZHEIMER DISEASE	Published on 29/10/2021	<b>2021 1101 6470</b>	07-04-2021	G.P. Modi, Yash Pal Singh, Gaurav Singh, Gauri Shankar, Atanu Barik, Lovejit Singh	Pharmaceutics
<b>55</b>	Adaptive optimal power management technique for Renewable Based Mix Energy System	Published on 29/10/2021	<b>2021 1103 1286</b>	12-07-2021	Dr. R. K. Singh, Priyatosh Jena	Electrical Engg.
<b>56</b>	A FACILE HOLLOW MESOPOROUS CHIRAL POLYMERIC NANOCAPSULE AND A PROCESS FOR ITS PREPARATION	Published on 29/10/2021	<b>2021 1102 0273</b>	03-05-2021	Dr. Pradip Paik	Bio Medical Engg

57	A DC/DC CONVERTER WITH BOTH CURRENT AND VOLTAGE SOURCE PROPERTY FOR OPTIMAL BATTERY CHARGING SYSTEM	Published on 29/10/2021	2021 1103 9649	01-09-2021	Dr. R. K. Singh, Warda Matin Khan, Dr. Sachin Kumar Jain (Asst. Prof. IITDM Jabalpur)	Electrical Engg.
58	A DEVICE FOR DEPOSITION OF FLUID FOR CHROMATOGRAPHY	Published on 29/10/2021	2021 1100 5760	11-02-2021	Dr. Alakh N Sahu, Mr. Dharmendra Yadav	Pharmaceutics
59	A METHOD OF SYNTHESIZING CARBON DOTS AND A PRODUCT THEREOF	Published on 05/11/2021	2020 1101 8557	30-04-2020	Dr. Pradip Paik	Bio Medical Engg
60	SOY-BASED ELECTROSPUN NANOFIBROUS SHEET AND METHOD OF ELECTROSPINNING THEREOF	Published on 05/11/2021	2020 1101 8560	30-04-2020	Dr. Sanjeev Kumar Mahto, Neelima Varshney, Ajay Kumar Sahi	Bio Medical Engg
61	ELECTROCHEMICAL DEVICE FOR HYDROGEN PRODUCTION	Published on 05/11/2021	2020 1101 8312	29-04-2020	Ashish Kumar Mishra, Shanu Mishra, Somesh Sunil Jaiswal	SMST
62	BIOCOMPATIBLE NANO-TRIBLOCK-CO-POLYMERS AND A PROCESS FOR THEIR PREPARATION	Published on 06/11/2021	2020 1102 9248	09-07-2020	Pradip Paik	Bio Medical Engg
63	A MESOPOROUS ANTI-MICROBIAL NANOCOMPOSITE AND A METHOD OF PREPARATION THEREOF	Published on 06/11/2021	2020 1103 1802	24-07-2020	Pradip Paik	Bio Medical Engg
64	A METHOD FOR PREPARATION OF WASTE BACTERIAL CULTURE MEDIA BASED	Published on 13/11/2021	2020 1104 1316	23-09-2020	Dr. Vishal Mishra, Anadi Gupta	Bio Chemical Engg

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65	TEMPERATURE SENSITIVE POROUS POLYMER FILM FOR BIOMEDICAL APPLICATIONS AND A METHOD OF ITS SYNTHESIS	Published on 26/11/2021	2020 1102 0948	18-05-2020	Dr. Pradip Paik	Bio Medical Engg
66	SYNTHESIS OF 2-(4-BROMOPHENYL)-5-(4-(PYRIDIN-2-YL) PIPERAZIN-1-YL)-1,3,4-OXADIAZOLE FOR TREATING ALZHEIMER'S DISEASE AND METHOD OF PREPARATION THEREOF	Published on 05/03/2021	201911034931	29-08-2019	Piyooosh Sharma, Avanish Tripathi, Priyanka kumari choubey, Dr. Sushant Kumar Srivastava	Pharmaceutics
67	AN IMPROVED ELECTRO-KINETIC CONSTANT RATE-OF-STRAIN CONSOLIDOMETER	Published on 31/12/2021	2021 1105 7176	08-12-2021	Dr. Alakh N Sahu, Mr. Dharmendra Yadav	Pharmaceutics
68	A PORTABLE COLORIMETRY SENSING DEVICE FOR POINT OF CARE DIAGNOSTICS	Published on 31/12/2021	2021 1104 6586	12-10-2021	Pranjal Chandra, Supratim Mahapatra, Amit Thakur	Bio Chemical Engg
69	A SUPERABSORBENT BIOCOMPATIBLE SOY-BASED HYDROGEL SCAFFOLD AND METHOD OF PREPARATION THEREOF	Published on 31/12/2021	2021 1105 0848	05-11-2021	Dr. Sanjeev Kumar Mahto, Neelima Varshney	Bio Medical Engg
70	AN ASYMMETRIC TRANSISTOR AND METHOD OF FABRICATION THEREOF	Published on 31/12/2021	2021 1105 2391	15-11-2021	Dr. Shushant Mittal, Dr. Shivam Verma	Electronics Engg.

<b>71</b>	A DUAL-MODE EVAPORATIVE COOLER FOR COMPOSITE CLIMATE	Published on 31/12/2021	<b>2021 1105 7640</b>	10-12-2021	Dr. Jahar Sarkar, Sarvesh Kashyap	Mechanical Engg.
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## Patents Published in the year 2020

Sl. No.	Title	Description	Application No.	Filing Date	Inventor's Name	Department
1.	A MICRO-FLUIDIC PLATFORM FOR LOW DENSITY CULTURE OF CELLS AND A METHOD FOR CONTROLLING THE SAME	Published on 03/01/2020	2018 1102 4410	29-06-2018	Dr. Sanjeev Kumar Mahto, Suruchi Poddar	Bio Medical Engg
2.	POROUS SILICA SHAPES AND MANUFACTURING PROCESS THEREOF	Published on 10/01/2020	2018 1102 5421	06-07-2018	Dr. Kalyani Mohanta	Ceramic Engg
3.	A METHOD TO REDUCE SUSPENDED PARTICULATE MATTER IN AIR	Published on 24/01/2020	2018 1102 7390	21-07-2018	Akhilesh Kumar Yadav, Dr. Aarif Jamal	Mining Engg.
4.	A BIOACTIVE GLASS DRUG FORMULATION FOR BONE REPAIR AND REGENERATION AND A METHOD OF PREPARTION THEREOF	Published on 01/05/2020	2018 1104 0152	24-10-2018	Dr. S. Krishnamurthy, Mr. Pankaj paliwal	Pharmaceutics
5.	A NOVEL HYDROGEL WITH HIGH MECHANICAL STABILITY AND A METHOD OF MAKING THE SAME	Published on 05/06/2020	2018 1104 5481	01-12-2018	Pradip Paik	Bio Medical Engg
6.	SOLAR AIR HEATER	Published on 12/06/2020	2018 1104 5795	04-12-2018	Dr. Om Prakash Singh, Ajeet Pratap Singh	Mechanical Engg.
7.	A STRONTIUM BASED RARE EARTH FREE HIGH ENERGY PERMANENT MAGNET FOR DC MOTOR APPLICATION AND A METHOD OF SYNTHESIS THEREOF	Published on 26/06/2020	2018 1104 8780	22-12-2018	Dr. P.K. Roy, Deepshikha Shekhawat	Ceramic Engg
8.	A NOVEL NANO-BINDER IN CASTABLE REFRACTORY AND A METHOD OF PREPARATION THEREOF	Published on 03/07/2020	2018 1104 9448	27-12-2018	Dr. P.K. Roy, SK Saddam Hossain	Ceramic Engg

9.	A MULTIFUNCTIONAL HYBRID 3-(4-HYDROXY-3-METHOXY-PHENYL) PROP-2-ENOIC ACID AND SUBSTITUTED AMINEPIPERAZINE DERIVATIVES FOR THE TREATMENT OF A	Published on 10/07/2020	2019 1100 0362	03-01-2019	G.P. Modi, Yash Pal Singh, Amruta Pandey	Pharmaceutics
10.	AN ALKALINE EARTH METAL DOPED ZINC OXIDE NANOSHEETS AND METHOD OF PREPARATION THEREOF	Published on 14/08/2020	2018 1104 4916	28-11-2018	Dr. Santanu Das, Abesh Banerjee Department of Biochemistry, University of Calcutta	Ceramic Engg
11.	MAGNESIUM ZINC FERRITE-POLYURETHANE NANO COMPOSITE	Published on 10/07/2020	2019 1100 0437	04-01-2019	Dr. Santanu Das, Mr. Rajarshi Bhattacharya, Dr. Tapas Kumar Bhattacharya, Dr. Somak Bhattacharya, Prof Pralay Maiti	Ceramic Engg, SMST, Electronics Engg
12.	A METHOD FOR PREPARATION OF GRAPHENE-OXIDE NANOCOMPOSITES BASED SPRAYABLE PAINT COATING	Published on 11/09/2020	2019 1100 8550	05-03-2019	Dr. Santanu Das, Mr. Rajarshi Bhattacharya, Dr. Somak Bhattacharya, Prof Pralay Maiti	Ceramic Engg, SMST, Electronics Engg
13.	A METHOD OF PREPARING MINERAL FROM ALUMINIUM DROSS USING ORGANIC SOLVENT PRECIPITATION	Published on 11/09/2020	2019 1100 8950	07-03-2019	Kamlesh Singh, Arunabh Meshram, Anant Jain, Divyansh Gautam	Metallurgical Engg
14.	A METHOD OF PREPARING TITANIUM DIOXIDE BASED TRANSPARENT AND THIN FILMS AND A PRODUCT THEREOF	Published on 11/09/2020	2019 1100 8546	05-03-2019	Dr. Md. Imteyaz Ahmad, Mr. Sooraj Kumar	Ceramic Engg

<b>15.</b>	A METAL CERAMIC JOINT ADHESIVE	Published on 31/07/2020	<b>2019 1100 2765</b>	23-01-2019	Prof Pralay Maiti, Dr. Santanu Das, Shivam Tiwari	Ceramic Engg, SMST
<b>16.</b>	A BIOMETRIC BASED METHOD AND SYSTEM FOR IDENTIFYING AN INFANT	Published on 11/09/2020	<b>2019 1100 8955</b>	07-03-2019	Dr. Sanjay Kumar Singh, Dr. Shrikant Tiwari, Dr. Rishav Singh, Dr. G R Sinha, Dr. Hari Om, Dr. Ritika Singh	Computer Science & Engineering
<b>17.</b>	A NOVEL ANTI-COAGULANT FORMULATION AND A METHOD OF PREPARATION THEREOF	Published on 02/10/2020	<b>2019 1101 2094</b>	27-03-2019	Dr. S. Krishnamurthy, Mr. Pankaj paliwal, G.P. Modi, Gopichand Gutti, Shushil Kr. Singh	Pharmaceutics
<b>18.</b>	MATERIAL FOR FASTER BONE HEALING	Published on 09/10/2020	<b>2019 1101 3103</b>	02-04-2019	Prof. Pralay Maity, Arun Kumar Mohanta, Dr. S. Krishnamurthy, Mr. Pankaj paliwal	SMST, Pharmaceutics
<b>19.</b>	A BIO-PIEZOELECTRIC DEVICE AND A METHOD OF PREPARATION THEREOF	Published on 09/10/2020	<b>2019 1101 3972</b>	07-04-2019	Prof. Pralay Maity, Anupma Gaur, ShivamTiwari-SMST & Chandan Kumar- School of Biomedical Engg.	SMST & Bio Medical Engg
<b>20.</b>	FRICITION REDUCING COATING ON ORTHODONTIC WIRES	Published on 09/10/2020	<b>2019 1101 3104</b>	04-02-2019	Chandan Upadhyay, Thakur Prasad Chaturvedi, Rajiv Prakash	SMST
<b>21.</b>	A WASTE DERIVED NANO-SOL BINDER FOR CASTABLE REFRACTORY AND A METHOD OF PREPARATION THEREOF	Published on 30/10/2020	<b>2019 1101 6335</b>	24-04-2019	Dr. P.K. Roy, SK Saddam Hossain	Ceramic Engg

<b>22.</b>	AN UPCONVERTING PLATFORM FOR ARSENITE DETECTION IN WATER SAMPLES AND A METHOD OF PREPARATION THEREOF	Published on 06/11/2020	<b>2019 1101 7225</b>	30-04-2019	Dr. Manoj Kumar	Chemical Engg
<b>23</b>	HOPPER	Published on 21/08/2020	<b>2018 1104 9831</b>	29-12-2018	Dr. Vishal Misra	Bio Chemical Engg
<b>24.</b>	AN IMPROVED SEGREGATOR	Published on 10/07/2020	<b>2019 1100 0354</b>	03-01-2019	Dr. Vishal Misra	Bio Chemical Engg
<b>25.</b>	HOPPER WITH REPULSION TUBES	Published on 11/09/2020	<b>2019 1100 9585</b>	12-03-2019	Dr. Vishal Mishra, Ms. Priyanka Yadav	Bio Chemical Engg
<b>26.</b>	ALUMINIUM FOAM WITH HIGH POROSITY AND OPEN-CELLED MICROSTRUCTURE USING POWDER METALLURGY ROUTE AND A PROCESS THERE OF	Published on 18/09/2020	<b>2019 1101 0216</b>	15-03-2019	Dr. Kalyani mohanta	Ceramic Engg
<b>27.</b>	AN IMPROVED HYBRID SOLAR CHIMNEY BASED POWER GENERATION SYSTEM	Published on 30/10/2020	<b>2020 1102 0671</b>	15-05-2020	Ajeet Pratap Singh, Dr. Om Prakash Singh	Mechanical Engg.
<b>28.</b>	DEVELOPMENT OF MULTIFUNCTIONAL POROUS POLYMERIC MEMBRANE USING ACCELERATOR FOR SEPARATION OF F-BLOCK ELEMENTS	Published on 30/10/2020	<b>2020 1102 3201</b>	02-06-2020	Prof. Pralay Maiti	SMST
<b>29.</b>	A METHOD OF PREPARING A CATALYST FOR CATALYTIC CONVERTER AND A PRODUCT THEREOF	Published on 30/10/2020	<b>2020 1102 6380</b>	22-06-2020	Dr. Deepak Yadav, Dr. Pratichi Singh, Prof. Ram Prasad, Dr. Pradeep Kumar	Chemical Engg

<b>30.</b>	COMPOSITION AND METHOD FOR SYNTHESIS OF STRONTIUM HEXAFERRITE BASED NON-RARE-EARTH MAGNETS	Published on 06/11/2020	<b>2020 1102 9080</b>	08-07-2020	Dr. P.K. Roy, Ms. Akansha Gupta	Ceramic Engg
<b>31.</b>	BIOCOMPATIBLE NANO-TRIBLOCK-CO-POLYMERS AND A PROCESS FOR THEIR PREPARATION	Published on 06/11/2020	<b>2020 1102 9248</b>	09-07-2020	Pradip Paik	Bio Medical Engg
<b>32.</b>	AN IMPROVED DIGITAL STETHOSCOPE	Published on 06/11/2020	<b>2020 1103 0025</b>	15-07-2020	Dr. Marshal, Taresh Sarvesh Sharan	Bio Medical Engg
<b>33.</b>	A MESOPOROUS ANTI-MICROBIAL NANOCOMPOSITE AND A METHOD OF PREPARATION THEREOF	Published on 06/11/2020	<b>2020 1103 1802</b>	24-07-2020	Pradip Paik	Bio Medical Engg
<b>34.</b>	AN IMPROVED HIGH FLOW SOLAR CHIMNEY POWER PLANT	Published on 13/11/2020	<b>2020 1103 3120</b>	01-08-2020	Ajeet Pratap Singh, Dr. Om Prakash Singh	Mechanical Engg.
<b>35.</b>	SYSTEM FOR ELECTRO-OSMOTIC SOIL CONSOLIDATION AND A METHOD THEREOF	Published on 13/11/2020	<b>2020 1103 8430</b>	05-09-2020	P. Bala Ramudu, Deep Jyoti Singh, Arun Prasad	Civil Engg
<b>36.</b>	A METHOD FOR PREPARATION OF WASTE BACTERIAL CULTURE MEDIA BASED FLUORESCENT SECURITY INK	Published on 13/11/2020	<b>2020 1104 1316</b>	23-09-2020	Dr. Vishal Mishra, Anadi Gupta	Bio Chemical Engg
<b>37.</b>	A BIOMETRIC BASED SYSTEM AND METHOD FOR MANAGEMENT OF PET ANIMAL	Published on 13/11/2020	<b>2020 1100 3639</b>	27-01-2020	Dr. Sanjay Kumar Singh, Abhinav, Sandeep Sambhaji Udamale, Anshul, Dr. Rishav Singh, Dr. Arun kumar Sangaiah	Computer Science & Engineering

<b>38.</b>	JANUS SHAPED SILVER-MAGNETITE NANOPARTICLES AND A METHOD OF PREPARATION THEREOF	Published on 27/11/2020	<b>2019 1102 0251</b>	22-05-2019	Chandan Upadhyay, Pinki Singh	SMST
<b>39.</b>	A NOVEL MATERIAL FOR TREATING WASTEWATER AND A METHOD OF PREPARATION THEREOF	Published on 27/11/2020	<b>2019 1102 0250</b>	22-05-2019	Dr. Vishal Mishra, Ms. Jyoti Singh	Bio Chemical Engg
<b>40.</b>	A DIRECT BROADCAST SYSTEM USING CDMA TECHNOLOGY	Published on 20/11/2020	<b>2019 1101 9579</b>	17-05-2019	Vipin Kumar Verma (Junior Assistant)	Bio Medical Engg
<b>41.</b>	A NOVEL POLYMERIC HYDROGEL FOR TREATING MELANOMA CANCER AND A METHOD THEREOF	Published on 30/10/2020	<b>2019 1101 5958</b>	18-09-2019	Prof. Pralay Maity, Aparna Shukla, Akhand Pratap Singh	SMST
<b>42.</b>	A METHOD OF PREPARING SYNTHETIC BEADS TO REMOVE HEAVY METALS FROM WASTE WATER	Published on 11/12/2020	<b>2019 1102 2735</b>	07-06-2019	Dr. Vishal Mishra, Mr. Veer Singh	Bio Chemical Engg

## Patents Published in the year 2019

Sl. No.	Title	Description	Application No.	Filing Date	Inventor's Name	Department
1	AN ORAL COMPOSITION OF INDOLE-3-CARBINOL AND A METHOD OF PREPARATION THEREOF	Published on 01/02/2019	2017 1102 6941	28-07-2017	Dr. Sairam krishnamurthy ; Mr. Pankaj Paliwal ; Gaurav Chauhan	Pharmaceutics
2	<b>SUBSTRATE-ASSISTED SYNTHESIS OF DIVERSE MORPHOLOGIES OF UPCONVERTING NANOMATERIALS</b>	Published on 08/03/2019	2017 1101 4647	25-04-2017	Dr. Manoj Kumar ; Mr. Sudhir Ranjan & Prof. Rajiv Prakash	Chemical Engg & SMST
3	COMPOSITION OF RESVERATROL-LOADED HYBRID NANOPARTICLES AND A METHOD OF PREPARATION THEREOF	Published on 11/10/2019	2018 1101 2870	04-04-2018	Prof. Sanjay Singh ; Mr. Vijaykumar M.R.	Pharmaceutics
4	A REAL TIME WRITING INSTRUMENT GRIP AND MOTION MONITORING SYSTEM	Published on 15/02/2019	2017 1102 8197	08-08-2017	Dr. Hari Prabhat Gupta, Dr. Tanima Dutta & Ms. Surabhi Saraswat	Computer Science & Engineering
5	A METHOD TO ENHANCE THERMAL STABILITY AND EFFICIENCY IN POROUS FLUOROPOLYMER HYBRID MEMBRANE	Published on 01/02/2019	2017 1102 7183	31-07-2017	Prof. Pralay Maity, Om Prakash	SMST
6	A METHOD OF SYNTHESIS OF SOFT HARD FERRITES	Published on 18/01/2019	2017 1102 5371	17-07-2017	Dr. P.K. Roy, SK Saddam Hossain, Deepshikha Shekhawat	Ceramic Engg
7	CERAMIC MATRIX COMPOSITE OF FERRITE AND FERROELECTRIC COMPOUND AND A METHOD OF SYNTHESIS THEREOF	Published on 01/03/2019	2017 1102 9705	22-08-2017	Dr. P.K. Roy, SK Saddam Hossain	Ceramic Engg

8	HIGH SURFACE AREA, HIGH PURITY AND HIGH CONDUCTANCE MONO-LAYERED REDUCED GRAPHENE OXIDE	Published on 31/05/2019	2017 1104 3028	30-11-2017	Dr. Santanu Das, shaikh Mohammad Zaeem, Nitish Agrawal : : Ceramic Engg	Ceramic Engg
9	A SELF-EXPANDING SHAPE-MEMORY POLYMER NANOHYBRID AND A METHOD OF PREPARING THE SAME'	Published on 01/03/2019	2017 1103 0194	25-08-2017	Prof. Pralay Maity & Arpan Biswas:: SMST	SMST
10	A COMPOSITION AND METHOD TO PREPARE NATURALLY PRESERVED AND UNIFORMLY COOKING HEALTH FOOD	Published on 08/03/2019	2017 1103 1556	06-09-2017	Dr. P. K. Mishra & Ms. Neha Srivastava:: Chemical Engg	Chemical Engg
11	A SYSTEM FOR REDUCING HEAT LOSS IN BRICK KILNS	Published on 13/12/2019	2018 1102 1148	06-06-2018	Dr. Jyoti Prasad Chakraborty	Chemical Engg
12	HIGH TEMPERATURE APPLICABLE BINDER FROM EGG SHELL AND A METHOD OF SYNTHESIS THEREOF	Published on 19/07/2019	2017 1103 5361	05-10-2017	Dr. P.K. Roy, SK Saddam Hossain	Ceramic Engg
13	A NANOCARRIER FOR DELIVERING GENETIC MATERIALS AND A METHOD OF PREPARATION THEREOF	Published on 09/08/2019	2018 1100 4496	06-02-2018	Prof. Pralay Maity, Sudipta Senapati	SMST
14	A METHOD FOR SYNTHESIS OF CERIUM(IV) PYROPHOSPHATE COMPOUNDS	Published on 09/08/2019	2018 1100 4846	08-02-2018	Dr. Bhupendra Singh, Lakshya Mathur, Sandeep Kumar Gautam, Devendra Kumar	Ceramic Engg
15	A NOVEL POLYMERIC PATCH FOR TREATING MELANOMA CANCER AND A METHOD THEREOF	Published on 26/07/2019	2017 1104 5345	18-12-2017	Prof. Pralay Maity, Aparna Shukla, Akhand Pratap Singh	SMST
16	<b>A DEVICE FOR MODELLING SOFTWARE CLONE EVOLUTION ACROSS DIFFERENT VERSIONS</b>	Published on 08/11/2019	2018 1101 6656	02-05-2018	Prof. K. K. Shukla, Jayadeep Pati	Computer Science & Engineering

	<b>AND A METHOD THEREOF</b>					
17	A SYSTEM AND METHOD FOR GENERATING REAL-TIME TEXT PRESERVED OIL PAINTING USING SMART-DEVICE	Published on 27/09/2019	2018 1101 0854	23-03-2018	Dr. Tanima Dutta Dr. Hari Prabhat Gupta & Mr. Sabyasachi Mohanty	Computer Science & Engineering
18	TRIVALENT Al+3 DOPED MAGNETITE AND A METHOD OF PREPARATION THEREOF	Published on 26/07/2019	2018 1100 2355	19-01-2018	Dr. Nand Kishore Prasad, Prof. R.K.Mandal, Manas Srivastav	Metallurgical Engg
19	A THREE DIMENSIONAL POROUS PSYLLIUM HUSK-BASED COMPOSITE SCAFFOLD	Published on 09/08/2019	2018 1100 4845	08-02-2018	Dr. Sanjeev Kumar Mahto, Suruchi Poddar, Agarawal Piyush Sunil	Bio Medical Engg
20	NANOHYBRID WITH HIGH ENERGY HARVESTING EFFICIENCY	Published on 22/11/2019	2018 1101 8838	19-05-2018	Prof. Pralay Maity, Anupma Gaur, ShivamTiwari- SMST & Chandan Kumar- School of Biomedical Engg.	SMST & Bio Medical Engg
21	A METHOD OF MANUFACTURING SYNTHETIC WOLLASTONITE BY UTILIZING WASTE MATERIALS	Published on 26/07/2019	2018 1100 2872	24-01-2018	Dr. P.K. Roy, SK Saddam Hossain	Ceramic Engg
22	METHOD OF MANUFACTURING COMBINED TYPE HUMIDITY SENSOR BASED ON TUNGSTEN DOPED Y-TYPE BARIUM HEXAFERRITE	Published on 09/08/2019	2018 1100 4844	08-02-2018	Mr. Mukesh Suthar, Dr. P.K. Roy	Ceramic Engg
23	FUNCTIONALIZED GRAPHENE OXIDE BASED NANOPROBES	Published on 20/09/2019	2018 1100 9385	14-03-2018	Prof. Pralay Maity, Sudipta Senapati	SMST
24	A BIOACTIVE GLASS AS AN ORTHODONTIC ADHESIVE AND A METHOD OF PRODUCTION THEREOF	Published on 18/10/2019	2018 1101 4080	12-04-2018	Prof. Pralay Maity, Sudipta Senapati, SMST & Ajit V. Parihar, Sadhana Swaraj, T.P. Chaturvedi, FDS,IMS,BHU	SMST & FDS, IMS BHU

25	HIGH ENERGY, HIGH CURIE TEMPERATURE FERRITES FOR HIGH POWER APPLICATIONS	Published on 20/09/2019	2018 1100 9240	13-03-2018	Deepshikha Shekhawat, Dr. P.K. Roy	Ceramic Engg
26	A PORTABLE TEST KIT FOR DETECTION OF GLUCOSE IN BIOLOGICAL FLUIDS AND A METHOD THEREOF	Published on 29/11/2019	2018 1100 9239	13-03-2018	Prof. RAJIV PRAKASH,VINITA,NARSI NGH R. NIRALA	SMST
27	EMG SENSOR FOR PROSTHETIC HAND CONTROL	Published on 08/11/2019	2018 1101 6601	02-05-2018	Alok Prakash, Bindu Kumari, Dr. Shiru Sharma, Dr. Neeraj Sharma	Bio Medical Engg
28	A PORTABLE BIOSENSING SYSTEM AND METHOD FOR VISUAL DETECTION OF GLUCOSE IN BIOLOGICAL FLUIDS	Published on 27/09/2019	2018 1101 0352	21-03-2018	Prof. RAJIV PRAKASH,NARSINGH R. NIRALA,VINITA	SMST
29	A POLYMER OR 2D NANO-COMPOSITE FILM AND A METHOD OF PRODUCTION THEREOF	Published on 11/10/2019	2018 1101 3068	05-04-2018	Prof. RAJIV PRAKASH, Dr. Rajiv Kumar Pandey	SMST
30	FORMULATION OF SILVER CONTAINING BIOACTIVE GLASS	Published on 15/11/2019	2018 1101 7805	11-05-2018	Dr. S. Krishnamurthy, Mr. Pankaj paliwal	Pharmaceutics
31	A BIO-WASTE POLYMER HYBRID WITH HIGH ENERGY HARVESTING EFFICIENCY	Published on 08/11/2019	2018 1101 6816	03-05-2018	Prof. Pralay Maity, Anupma Gaur, ShivamTiwari- SMST & Dr. Sanjay Kumar Rai, Chandan Kumar- School of Biomedical Engg.	SMST & Bio Medical Engg
32	FABRICATION OF CERAMIC BOARD THROUGH SOLID-STATE SINTERING METHOD BY UTILIZING WASTE MATERIALS	Published on 08/11/2019	2018 1101 6451	01-05-2018	Dr. P.K. Roy, SK Saddam Hossain	Ceramic Engg
33	FABRICATION OF CERAMIC BOARD THROUGH ROOM TEMPERATURE CURING PROCESS BY UTILIZING WASTE MATERIALS	Published on 08/11/2019	2018 1101 6452	01-05-2018	Dr. P.K. Roy, SK Saddam Hossain	Ceramic Engg

## Patents Published in the year 2018

Sl. No.	Title	Description	Application No.	Filing Date	Inventor's Name	Department
1.	A Biomass Composition for thermal Insulation and Method of Manufacturing the same	Published on 09/02/2018	201611024361	15-07-2016	Dr. M. R. Majhi ; SK Saddam Hossain & Aman Bhardwaj	Ceramic Engg
2.	A Method for Controlled Biodegradation of Biopolymer using Inorganic Salt and Product Thereof.	Published on 06/04/2018	201611029959	01-09-2016	Prof. Pralay maity ; Sunil Kumar	SMST
3.	A Composition for Bricks from Waste Materials and Method of manufacturing the Same	Published on 16/03/2018	201631030744	08-09-2016	SK Saddam Hossain ; Lakshya Mathur & Dr. M. R. Majhi	Ceramic Engg
4.	A Solution Phase Synthesis for Doped/ Undoped Cerium (IV) Pyrophosphate Compunds of Different Morphologies	Published on 06/04/2018	201611033229	29-09-2016	Dr. Bhupendra Singh	Ceramic Engg
5.	A Process for Preparing Pyrophosphate- Carbonate Composite Ionic Conductors and Product Thereof.	Published on 20/04/2018	201611035232	14-10-2016	Dr. Bhupendra Singh	Ceramic Engg
6.	A System for Channelling and Encasing Conditioned Air Around Processing Unit and the method Thereof.	Published on 11/05/2018	201611038371	10-11-2016	Dr. Ravindranath Chowdary Chandra ; Manajit Chakraborty	Computer Science & Engineering
7.	A Method for Preparing tiles and Composition Thereof.	Published on 25/05/2018	201631039979	23-11-2016	SK Saddam Hossain ; Lakshya Mathur ; Dr. Preetam Singh & Dr. M. R. Majhi	Ceramic Engg

8.	A Method for Stabilizing An Ayurvedic Wound Healing Formulation	Published on 08/06/2018	201611041318	02-12-2016	Prof. Pralay Maity ; Arpan Biswas ; Manori Amarajeewa & Dr. Manoranjan Sahu	SMST & IMS (Ayurveda)
9.	A Process for Producing Ph Independent Cellulase and Product Thereof.	Published on 22/06/2018	201611043036	16-12-2016	Prof. P. K. Srivastava ; Neha Srivastava ; Manish Srivastava & Dr. P. W. Ramteke	Chemical Engg & Delhi Univ.
10.	Lead-Free Piezoelectric Ceramics with Enhanced Piezoelectric and Strains Properties and Method Thereof.	Published on 22/06/2018	201611043293	19-12-2016	Dr. P. K. Roy ; Dr. K.B.R. Verma & Dr. Bharti Ponraj	Ceramic Engg
11.	A Process to Produce High Energy Stontium Based Permanent Magnet and A Product Thereof.	Published on 22/06/2018	201611043294	19-12-2016	Dr. P. K. Roy ; Deepshikha Shekhawat	Ceramic Engg
12.	A Medicated Biodegradable patch for Treating Wounds and a Method Thereof.	Published on 03/08/2018	201711003060	27-01-2017	Prof. Pralay Maity ; Prof. Manoranjan sahu ; Mr. Arpan Biswas	SMST ; IMS Ayurveda
13.	A METHOD FOR RAPID 3D PROTOTYPING OF SKELETAL MUSCLE TISSUE CONSTRUCTS USING A NOVEL COMPOSITION OF BIO-INK	Published on 10/08/2018	201711004598	08-02-2017	Dr. S. K. Mahato ; Ashutosh Bandyopadhyay & Vimal Kumar Dewangan	Bio Medical Engg
14.	High Capacitance Electrode for Pseudocapacitors and a Method of Preparing the same.	Published on 07/09/2018	201711007782	06-03-2017	Prof. Rajiv Prakash & Dr. Asha Gupta (RA)-SMST; Dr. Preetam Singh	SMST & Ceramic Engg
15.	A System and Method for Real- Time Cattle recognition using Muzzle Images	Published on 21/09/2018	201711008958	15-03-2017	Dr. Sanjay Kumar Singh, Dr. Tanima Dutta, Dr. Hari Prabhat Gupta, Mr. Santosh Kumar	Computer Science and Engineering
16.	Cholinesterase Inhibiting Compounds, Composition and Process thereof.	Published on 26/01/2018	201611011127	23-03-2017	Dr. S. K. Srivastava , Saurabh K Sinha	Pharmaceutics

17	A MULTI-UTILITY EQUIPMENT	Published on 26/11/2018	201811033581	06-09-2018	Dr. Alakh N. Sahu, Dharmendra Yadav	Pharmaceutics
18	A NOVEL FORMULATION OF DABIGATRAN SOLID DISPERSION FORMULATION AND A METHOD OF PREPARATION THEREOF	Published on 26/11/2018	201811029316	03-08-2018	Dr. S. Krishnamurthy, Mr. Pankaj paliwal	Pharmaceutics
19	A SYRINGE WITH CONTROLLED VOLUME DISPENSING SYSTEM	Published on 26/11/2018	201811030441	14-08-2018	Dr. Sanjeev Kumar Mahto, Ajay Kumar Sahi, Snehalata Rai	Bio Medical Engg
20	A NOVEL BARIUM BIOACTIVE GLASS (BaBG) FORMULATION AND A METHOD THEREOF	Published on 26/11/2018	201811033966	10-09-2018	Dr. S. Krishnamurthy, Mr. Pankaj paliwal, Smriti Gupta	Pharmaceutics
21	AN INSULATION BRICK AND METHOD OF PREPARATION THEREOF	Published on 26/11/2018	201811033258	05-09-2018	Dr. Arup Kumar Mandal, Prof O. P. Sinha	Metallurgical Engg
22	A CYCLODEXTRIN GRAFTED POLYURETHANE HYDROGEL FOR DRUG DELIVERY AND A METHOD OF MAKING THE SAME	Published on 26/11/2018	201811035914	24-09-2018	Dr. Santanu Das, Mr. Rajarshi Bhattacharya, Dr. Somak Bhattacharya, Prof Pralay Maiti	Ceramic Engg, SMST, Electronics Engg
23	A BIOREACTOR FOR CULTURING OF LIVING CELLS OR TISSUES	Published on 26/11/2018	201811038940	13-10-2018	Prof. Pradeep Srivastava, Satyavrat Tripathi, Divakar Birendra kumar Singh	Bio Chemical Engg

24	A STABILIZED GREEN PRODUCT/COMPOSITION FROM HAZARDOUS JAROSITE WASTE AND PROCESS OF PREPARATION THEREOF	Published on 26/11/2018	201811028367	27-07-2018	Chayan Gupta, Prof. Arun Prasad	Civil Engg
25	<b>GREEN SYNTHESIS PROCESS OF UPCONVERTING NaYF<sub>4</sub>:Yb<sup>3+</sup>,Tm<sup>3+</sup> NANOMATERIALS AND PRODUCTS THEREOF</b>	Published on 30/11/2018	201711018827	29-05-2017	Dr. Manoj Kumar ; Mr. Sudhir Ranjan	Chemical Engg

## Patents Published in the year 2017

Sl. No.	Title	Description	Application No.	Filing Date	Inventor's Name	Department
1	A system and Method for Inrush and Fault Detection for Differential Protection of Transformer	Published on 03/03/2017	2630/DEL/2015	25/8/2015	Prof. D.Singh, Prof. R.K. Mishra & Ms. Aprita Roy, Naveen Jha( Mathematics )	Electrical Engg
2	A Novel Method to Prepare TiO <sub>2</sub> Nanoparticles Through A Hydrothermal Route	Published on 24/03/2017	3022/DEL/2015	23/9/2015	Dr. C. Rath	SMST
3	Apparatus for Alchohol Production by Fermentation with Integrated Reaction Cum Seperation Unit	Published on 31/3/2017	3078/DEL/2015	28-09-2015	Prof. P K Mishra & Deepika Kushwaha	Chemical Engg
4	A Method and System for Interacting with Computers or Other Electronic Systems based on dactylology	Published on 16/06/2017	4114/DEL/2015	15-12-2015	Dr. Kishor Sarawadekar & Gourav Modanwal	Electronics Engg
5	Advanced Electrode Materials for Superior Psuedocapacitors and Reversible Alkali-ion (Li+ /Na+) Batteries	Published on 22/12/2017	20111007934	04-03-2016	Dr. Preetam Singh ; Prof. Rajiv Prakash	Ceramic Engg/ SMST
6	A Fermenter for Enhanced Bio-Hydrogen Production through Fermentative Route	Published on 22/12/2017	20111011909	04-04-2016	Prof. P. K. Mishra ; Neha Srivastava	Chemical Engg
7	A Method and System for Variable Film Deposition on a Solid Substate	Published on 22/12/2017	201611016344	10-05-2016	Dr. Manoj Kumar	Chemical Engg

Sl. No.	Title	Description	Application No.	Filing Date	Inventor's Name	Department
8	Topical Composition for treatment of Burns with Enhanced Penetration and Method of Formulating The Sam	Published on 29/12/2017	201611020044	11-06-2016	Aparajita Dutta ; Gyanendra Singh ; Prof. A. K. Srivastava	Pharmaceutic
9	A Device with Improved Modulation Cavity for High Pulse Microwave Signal Generation and Method Thereof	Application Awaiting Examination /Published on 10/03/2017	201611032924	27-09-2016	Manpuran Mahato ; Prof. P. K. Jain	Electronics
10	A PSA BIO-SENSING PLATFORM WITH GRAPHENE QUANTUM DOT-GOLD NANO-PARTICLE ELECTRODE AND A METHOD THEREOF	Published on 15/12/2017	201711035660	07-10-2017	Prof. Rajiv Prakash & Narsingh Raw Nirala ; Monika Srivastava	SMST
11	GREEN METHOD FOR FAST REDUCTION OF GRAPHENE OXIDE	Published on 15/12/2017	201711036056	11-10-2017	Dr. Santanu Das, shaikh Mohammad Zaeem : : Ceramic Engg	Ceramic Engg

Sl. No.	Title	Description	Application No.	Filing Date	Inventor's Name	Department
12	A PHARMACEUTICAL COMPOSITION OF SULFONAMIDE DERIVATIVES FOR THE TREATMENT OF ALZHEIMER'S DISEASE	Published on 22/12/2017	201711041328	18-11-2017	Dr. S.K. Singh, Dr. G. P. Modi, Mr. D. Kumar, Ms. R. Swetha, Mr. C. Gayen, Mr. A. Ganeshpurkar :: Pharmaceutics	Pharmaceutics
13	AN ORAL BIOACTIVE GLASS FORMULATION CONTAINING AQUEOUS MICRONIZED BARIUM OXIDE FOR TREATING GASTRO-DUODENAL ULCERS	Published on 15/12/2017	201711031854	08-09-2017	Dr. S. Krishnamurthy, Mr. Pankaj paliwal, :- Pharmaceutics :: Mr. S. K. Arepalli :- Ceramic Engg	Pharmaceutics & Ceramic Engg
14	A BIOACTIVE GLASS BASED FORMULATION FOR TREATING CEREBRAL ISCHEMIC REPERFUSION INJURY AND METHOD THEREOF	Published on 15/12/2017	201711032099	11-09-2017	Dr. S. Krishnamurthy, Mr. Pankaj paliwal, :- Pharmaceutics	Pharmaceutics
15	A METHOD AND SYSTEM FOR IDENTIFYING CATTLE BY COMBINING UNIQUE IDENTIFICATION OF OWNER AND CATTLE	Published on 15/12/2017	201711032865	16-09-2017	Dr. Sanjay Kumar Singh, Debanjan Sadhya, Anshul Sharma, RAVI SHANKAR SINGH, KUNDAN KUMAR, RISHAV SINGH	Computer Science & Engineering

Sl. No.	Title	Description	Application No.	Filing Date	Inventor's Name	Department
16	SELF ADJUSTING FIXED TYPE JETTY AND A PROCESS OF ADJUSTING THEREOF	Published on 15/12/2017	201711031587	06-09-2017	Dr. K.K. Pandey, Dr. Rajesh Kumar, Ankit Patel, Achin Agrawal	Civil Engg
17	A STRONTIUM-BASED HIGH ENERGY HARD MAGNET AND A METHOD OF PRODUCTION THEREOF	Published on 22/12/2017	201711041329	18-11-2017	Dr. P.K. Roy, Deepshikha Shekhawat	Ceramic Engg
18	A BIOACTIVE GLASS SCAFFOLD AND A METHOD OF PREPARATION THEREOF	Published on 15/12/2017	201711035474	06/10/2017	Dr. S. Krishnamurthy, Mr. Pankaj paliwal, Shreyasi Majumdar, :- Pharmaceutics :: Mr. S. K. Arepalli :- Ceramic Engg	Pharmaceutics & Ceramic Engg
19	"METHOD OF MANUFACTURING OF CERAMICS BY UTILIZING WASTE MATERIALS"	Published on 22/12/2017	201711038451	30-10-2017	Dr. P.K. Roy, SK Saddam Hossain, Ram Pyare	Ceramic Engg

## Patent Published in the year 2016

<b>Sl. No.</b>	<b>Title</b>	<b>Application No.</b>	<b>Inventor's Name</b>	<b>Department</b>	<b>Publication Date</b>
1	A Process For The Polyethylenimine And Organic Reducing Agent -Mediated Synthesis Of Noble Metal Nanoparticles, And Prussian Blue Nanoparticles Therefrom	4043/DEL/2014	Prof. P.C. Pandey	Chemistry	01-07-2016

## Patents Published in the year 2015

Sl. No.	Title	Application No.	Inventor's Name	Department	Publication Date
1	Technique For Protection Of Ferrocement From Corrosion	3663/DEL/2014	Prof. M. A. Quraishi	Chemistry	16-01-2015
2	A Process For The Organic Hydroperoxide-Mediated Synthesis Of Noble Metal Nanoparticles, Bimetallic Nanosol And Prussian Blue Nanoparticles Therefrom	2153/DEL/2013	Prof. P.C. Pandey & Ashish Pandey	Applied Chemistry	23-01-2015
3	Chemical Process For Formation Of Anthraquinone Moiety/Cysteamine Functionalized-Gold Nanoarticle/Chitosan Based Composite And Application In Detection Of Dissolved Oxygen	3150/DEL/2013	Dr. Ida Tiwari, Mandakini Gupta & Prof. Rajiv Prakash (SMST)	BHU Chemistry & SMST	01-05-2015

## Patents Published in the year 2014

<b>Sl. No.</b>	<b>Title</b>	<b>Application No.</b>	<b>Inventor's Name</b>	<b>Department</b>	<b>Publication Date</b>
1.	A Herbal Nutraceutical Formulation For Malnutrition In Women And A Process For Preparing The Same	733/DEL/2013	Dr. Pradeep Srivastava	Bio Chemical Engg	12-12-2014
2.	A Herbal Nutraceutical Formulation For Adolescent Girls	734/DEL/2013	Dr. Pradeep Srivastava	Bio Chemical Engg	12-12-2014
3.	A Herbal Nutraceutical Formulation For Chronic Fatigue Syndrome And Process For Preparing The Same	735/DEL/2013	Dr. Pradeep Srivastava	Bio Chemical Engg	12-12-2014
4.	A Herbal Nutraceutical Formulation For Anti-Obesity And A Process For Preparing The Same	736/DEL/2013	Dr. Pradeep Srivastava	Bio Chemical Engg	12-12-2014
5.	3-Dimensional Polymeric Hybrid Material For Bone And Cartilage Lesions And A Method Of Preparing The Same.	1124/DEL/2013	Dr. Pradeep Srivastava	Bio Chemical Engg	12-12-2014
6.	A Multi Enzyme Formulation for Washing Woven Products and A Washing System Thereof.	1396/DEL/2013	Dr. Pradeep Srivastava	Bio Chemical Engg	12-12-2014

## Patents Granted

(Till 31<sup>st</sup> Dec, 2021)

Sl. No.	Title	Application No.	Inventor's Name/Patentee	Date of Filing	Granting Date	Patent No.
1	CACIUM ION-SENSOR COMPRISING IONOPHORE/CARRIER ION-FREE POLYINDOLE-CAMPHOR SULPHONIC ACID COMPOSITE	2383/DEL/2010	Prem Chandra Pandey, Dheeraj Singh Chauhan, Rajiv Prakash	04/10/2010	07-08-2019	317867
2	A COMPOSITION FOR BRICKS FROM WASTE MATERIALS AND METHOD OF MANUFACTURING THE SAME	201631030744	IIT (BHU)	08/09/2016	29-08-2019	319464
3	A PROCESS FOR PREPARATION OF A HOMOGENEOUS POLYMER BLENDS PARTICULARLY BLENDS OF POLYCARBONATE (PC) AND POLY(METHYL METHACRYLATE) (PMMA)	141/DEL/2011	IIT (BHU)	20/01/2011	01-10-2019	322217
4	APPARATUS FOR ALCOHOL PRODUCTION BY FERMENTATION WITH INTEGRATED REACTION CUM SEPARATION UNIT	3078/DEL/2015	IIT (BHU)	28/09/2015	16/09/2021	377099
5.	A SOLUTION PHASE SYNTHESIS FOR DOPED/UNDOPED CERIUM(IV) PYROPHOSPHATE COMPOUNDS OF DIFFERENT MORPHOLOGIES	201611033229	IIT (BHU)	29-09-2016	22/10/2021	379792