

## Details Patents of the Institute

### Patents Filed in 2020

Department		No. of Patents			
		Filed	Published	Granted	Total
Civil Engineering	Indian	0	0	1	1
Mechanical Engineering	Indian	0	2	1	3
Electrical Engineering	Indian	0	0	0	0
Electronics & Telecommunication Engineering	Indian	0	0	0	0
Computer Engineering & IT	Indian	0	0	0	0
Instrumentation & Control Engineering	Indian	0	1	1	2
Metallurgy and Material Science	Indian	0	1	0	1
Manufacturing Engineering & Industrial Management	Indian	3	1	2	6
Applied Science	Indian	0	1	0	1
<b>Total</b>		<b>3</b>	<b>6</b>	<b>5</b>	<b>14</b>

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Civil Engineering	Indian	0	1	1	2
Mechanical Engineering	Indian	2	0	1	3
Electrical Engineering	Indian	0	0	0	0
Electronics & Telecommunication Engineering	Indian	2	0	1	3
Computer Engineering & IT	Indian	0	0	0	0
Instrumentation & Control Engineering	Indian	0	0	0	0
Metallurgy and Material Science	Indian	0	0	0	0
Manufacturing Engineering & Industrial Management	Indian	2	1	2	5
Applied Science	Indian	0	0	0	0
<b>Total</b>		<b>6</b>	<b>2</b>	<b>5</b>	<b>13</b>

### Summary

Year	Applied	Published	Granted
Jan 2020 – Dec 2020	3	6	5

### List of Patents Filed in Jan-Dec 2020

Sr. No.	Faculty / Students	Department	Title	Application No. & Date	Date of Publication	Status
1	Mr. Yogesh Kamble, Dr. B. Rajeev, Dr. P.D. Pantawane, Prof. B.B. Ahuja	Manufacturing Engineering & Industrial Management	Design and Development of Slotted Center Drilling Tool for Friction Drilling Process	202021040960 Dated: Sept 22, 2020	--	<b>Applied</b>
2	Mr. Swapnil A. Bukshete, Dr. Sandeep Anasane, Prof. B.B. Ahuja, Dr. Nikhil Panse,	Manufacturing engineering And Industrial management	Hand Rehabilitation Device	Application No.20201038770, Date: September 8, 2020	--	<b>Applied</b>
3	Mr. Pratik Waghmare, Dr. B Rajiv and Prof. B.B. Ahuja	Manufacturing Engineering & Industrial Management	Method and Device for Proceeding Based Asset Safety and Actuation with Device Smartphone-Unique pairing.	Application No. 202021055455 , Date:Dec.21, 2020	--	<b>Applied</b>

### List of Patents Published in Jan-Dec 2020

<b>Sr. No.</b>	<b>Faculty / Students</b>	<b>Department</b>	<b>Title</b>	<b>Application No. &amp; Date</b>	<b>Date of Publication</b>	<b>Status</b>
1	Dr. C. Y. Patil, Mr. Y. G. Adhav	Instrumentation & Control Engineering	MEMS Sensor for Real Time Measurement of Specific Gravity and State of Charge of Lead Acid Battery	Application No: 201821037211 Date: October 2, 2018	10/04/2020	<b>Published</b>
2	Prof. N.B. Dhokey, Jay Runwal, Revati Ambekar	Metallurgy & material Science	A Mechanical Grinding System And Process Of Surface Modification Of Irregular Shaped Powders	201921003487 Dated: January 29, 2019	31/07/2020	<b>Published</b>
3.	Dr. Sandeep Anasane, Dr. B. B. Ahuja, Juilee Deshpande, Gandali Kelkar, Aaman Nadaf, Mayur Sanas, Dr. Arati V. Mulay, Dr.Prakash Bhave	Manufacturing Engineering & Industrail Management	X-Ray Diagnostic Device	Application No: 1011503 March 28, 2018	19/06/2020	<b>Published</b>
4	M.R.Nandgaonkar Apte A A ,Shaikh Hamdaan Asif Kadam V G , Shinde G G Kothawade PP,Pawar GR	Mechanical Engineering	An Intake System For A Turbocharged Engine	Application No. 201921010780 A Date: March 20, 2019	25/09/2020	<b>Published</b>
5	Mrs.S.H. Deshpande, Dr. Jayant A. Kher, Shirish N. Phadtare, M. H. Tadpatrikar, Mrs.Nandini V. Iyer, Dr. M.Y. Khaladkar, Dr. Ganesh L. Agawane,	Applied Science	Process for synthesis of diesel oil by catalytic pyrolysis of thermo softening plastic waste	Application No. 202021023096 A Date: June 04, 2020	03/07/2020	<b>Published</b>

6	Dr. M. P. Khond, Mr. Milind Vasekar, Vivekanand Naikwadi	Mechanical Engineering	Design & Development of Compact Temp Indicator devicing disc pads in Modern vehicles	Application No. 202021039875 Date: September 15, 2020	06/11/2020	Published
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### List of Patent Granted in Jan-Dec 2020

Sr. No.	Faculty / Students	Department	Title	Application No. & Date	Date of Publication	Status
1	Dr. B.B.Ahuja Mr. S.M. Patil Mr. A. P.Patil	Production Engineering	Variable Loading Wear and Friction Monitor (VLWAFM) Pin-on-disc Sliding Tribometer	No.: 1521/MUM/2012 Date: May 18, 2012	30/11/2012	Granted Patent No :331165 Date: February 4, 2020
2	Prof.G.V. Parishwad and H.U. Tiwari	Mechanical Engineering	An Instant Potable and Compact Cooling System working on Multiple Heat Sources	No.: 768/MUM/2012 Date: March 22, 2012	27/12/2013	Granted Patent No. 335788 Date: April 22, 2020
3	Dayaram Sonawane , Seattle , WA ( US ) ; Manan Pathak , Seattle , WA (US) ; Venkat Subramanian , Seattle , WA (US) ; Matthew Lawder , St. Louis , MO (US)	Instrumentation	Battery Models , Systems , And Methods Using Robust Fail - Safe Iteration Free Approach For Solving Differential Algebraic Equations	Appl . No .: 15 / 745,984 PCT Filed : Jul . 20 , 2016 ( 86 ) PCT No .: PCT / US2016 / 043188	26/1/2017	Granted Patent US 10,769,236 B2 Date: September 9, 2020
4	Dr. B.B.Ahuja , Mr. Sudhir Madhav Patil Mr. Sachin Hiraji Mhatre	Production Engineering	Variable Loading Pin-On-Plate Reciprocating Sliding Tribometer [VLPOPRST]	No.: 84/MUM/2013 Date: January 10, 2013	17/10/2014	Granted Patent No :347732 Date: September 25, 2020
5	Charthal Jayesh Suresh, Chandarana Saurabha, Munot Hema Kishore	Civil Engineering	Process for Preparation of Geopolymer-Composite Articles	Application No: 1957/MUM/2014, Date: June 17, 2014	18/12/2015	Granted Patent No. :352755 Date: December 1, 2020

## Summary

Year	Applied	Published	Granted
Jan 2021 – Dec 2021	6	2	5

### List of Patents filed in 2021

Sr. No.	Faculty / Students	Department	Title	Application No. & Date	Date of Publication	Status
1.	Dr. S.S Anasane, Dr. B.B. Ahuja, Dr. D.R.Kabre, Ms. Charushila Khandait, Mr. Swapnil Bukshete	Manufacturing Engineering & Industrail Management	A System For Enhancing Image Projections For Real Time Visualisations	Application No. 202121016947 Date : April 12, 2021		<b>Applied</b>
2.	Dr.(Ms.) Shilpa P. Metkar, Dhanalekshmi P. Redurkar	Electronics & telecommunica tion Engineering	Automatic Complex Partial Epileptic Seizure Detection System based on Bioinspired Method	Application no 202121011613 Dated:18/03/20 21		<b>Applied</b>
3.	Dr. S.S Anasane, Dr. B.B. Ahuja, Dr. Taufiq Panjwani, Ms. Charushila Khandait	Manufacturing Engineering & Industrail Management	Limb Physiotherapy Monitoring Smart System Forpost Knee Replacement	Application No. 202121016695 Date : April 9, 2021		<b>Applied</b>
4.	Dr.S.S.Ohol, Mr. Pankaj Aaglawe	Mechanical Engineering	Automated bone alignment of straight bone fracture using Biomedical Instrumentation			<b>Applied</b>
5.	Anirudha Gaikwad Arnima Mehta Akriti Bhardwaj Dr. Vibha Vyas Dr. Rajashree C. Mahajan	Electronics & Telecommunica tion Engineering	Contactless Mask Monitoring and Biometric Attendance System			<b>Applied</b>
6.	Sohail shaikh Salman Shaikh Ayush Kaul Dr. P. R. Dhamangaonkar Dr. M. R. Nandgaonkar	Mechanical Engineering	A novel apperatus for determination of thermal condusctivity of volatile liquids			<b>Applied</b>

### List of Patents Published in 2021

Sr. No.	Faculty / Students	Department	Title	Application No. & Date	Date of Publication	Status
1.	Rutuj Wankhade, Aditya Jogalekar, M.N.Shaikh, B B Ahuja	Manufacturing Engineering & Industrail Management	Angular Mating Spur Gear	Application No. TEMP/E-1/47966/2019-MUM, Date: November 7, 2019	14/05/2021	Published
2	Dr. K.K.Tripathi, Kaksahab D Waghmare, Tanveer Bagwan	Civil Engineering	In-situ Torsional Direct Test Device (T-DST)	Application No: 201921027975; Date: July 12, 2019	15/01/2021	Publised

### List of Patents Granted in 2021

Sr. No.	Faculty / Students	Department	Title	Application No. & Date	Date of Publication	Status
1.	Dr. S. D. Suryawanshi	Mechanical Engineering	Multipurpose cooling apparatus	Application No: 2185/MUM/2011 Date: August 2, 2011	27/04/2012	<b>Granted Patent No. :356049 Date: January 19, 2021</b>
2	Dr. B.B.Ahuja, Mr. S. R. Bahulikar	Manufacturing Engineering & Industrail Management	Variable Speed Drive System with Ball Cluster	Application No: 3781/MUM/2013 Date: December 3, 2013	20/12/2013	<b>Granted Patent No. :357923 Date: Feb 5, 2021</b>
3	Banerjee Siddhartha Sudhir, Kulkarni Shreyas B., Jungare sarang S., Shirude Abhijit Rajendra, Sapkal Ashok, Ohol S S madhusudan	Electronics & Telcommuncation Engineering	An Arrangement to Maintain Stability of a body Mounted on a Rocker Bogie Mechnism	Application No: 2212/MUM/2014, Date: June 07, 2014	15/01/2016	<b>Granted Patent No. : 362205 Date: March 19, 2021</b>
4	Mayur Sanas, Dr. B.B.Ahuja, Dr. Arati Mulay	Manufacturing Engineering & Industrail Management	An Orthopaedic Plaster Splint	ation No: 1464/MUM/2015 April 8, 2015	07/04/2017	<b>Granted Patent No. 365828 Date: April 30, 2021</b>
5	Dr. Parag Sadgir Priyanand Agale	Civil Engineering	Self-Purification Based Polluted Water Purification	Application No. 201621007499 Date: March 3, 2016		<b>Granted Patent No. 365518 Date: April 28, 2021</b>

