



GOVERNMENT COLLEGE OF ENGINEERING, AMRAVATI
VMV Road, AMRAVATI – 444 604
(An Autonomous Institute of Government of Maharashtra)

Phone: (0721) 2531930
www.gcoea.ac.in

Fax: 0721-2531931
e-mail: principal@gcoea.ac.in

List of Faculty Patents Granted (UPDATED TILL 22-12-2023)

Sr. No	Patent/ Copyright	Applicant	Date/Year of Application	Granted
01	Method of Biodegradation of Chlorobenzenes using UASB Reactors	Dr. R. P. Borkar Civil Engineering	392/MUM/2010	Granted 260239 11/04/2014
02	Surface Aerator Blades With Twin Cups	Dr. M. N. Hedao Civil Engineering	30-03-2010 (No. 977/MUM/2010)	Granted 293136 21/02/2018
03	Automatic Screw Assembly	Dr. R. S. Dalu Mechanical Engineering	29-07-2010 (No. 2158/MUM/2010)	Granted 298963 19/07/2018
04	Content Based Video Retrieval Using Empty, Edge Detection, Black and White	Prof. A. V. Deorankar Information Technology	25/01/2013 2089/MUM/2011	Granted Aug. 2018
05	Artificial Tidal Wetland System For Treatment of Domestic Waste Water	Dr. M. L. Gulhane Civil Engineering	737/MUM/2015 E-12/86/2015/MUM	Granted 313598 31/05/2019
06	Horizontal Shaft Surface Aerator	Dr. M. N. Hedao Dr. S. K. Hirde Civil Engineering	15-01-2010 (No. 127/MUM/2010)	Granted 329017 07/01/2020
07	Surface Aerator Blades With Cups And Weir	Dr. M. N. Hedao Civil Engineering	19-03-2010 (No. 743/MUM/2010)	Granted 338097 08/06/2020
08	Waste water treatment by using rotary drum reactor	Dr. M. L. Gulhane Civil Engineering	2132/MUM/2015 02/06/2015	Granted 367386 Yes 24/05/2021

09	Surface Aerator Blades With horizontal bucket	Dr. M. N. Hedao Civil Engineering	1613/MUM/2010 25/05/2010	Granted 377025 Yes 16/09/202 1
10	Rotating biological contractors fitted with horizontal and vertical shaft	Dr. M. L. Gulhane Civil Engineering	2133/MUM/2015 02/06/2015	Granted 425495 Yes 16/03/202 3
11	FIXTURE FOR FRICTION STIR WELDING	Prof.M.T.Shete	18/10/2023	Granted 397836- 001 Yes 29/12/202 3
12	Intrusion Prevention Device	Dr.P.B.Ambhaore, Prof A.D.Wankhade	13/12/2023	Granted 6332841 Yes 20/12/202 3
13	PROCESS FOR RECOGNITION OF 3-D HUMAN ACTIVITY	Dr.P.N.Chatur	2445/MUM/2015 26/06/2015	Granted 498865 Yes 12/01/202 4



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List of Faculty Patents Filed/ applied:

Sr. No	Patent/ Copyright	Applicant	Date/Year of Application	Granted
2	Impact-Triggered Accident Reporting Road Divider System	Prof. T. C. Bhagat Civil Engineering	25-01-2010 (No. 200/MUM/2010)	No
3	Exhaust Systems for Automobile Engines to Avoid Direct Emissions on Drivers	Dr. A. G. Matani Mechanical Engineering	25-01-2010 (No. 204/MUM/2010)	No
4	Spherical Ball Method for the Measurement of Velocity in Open Channels	Dr. R. K. Rai Civil Engineering	15-02-2010 (No. 389/MUM/2010)	No
5	Stepped Plate For Improved Ultimate Structural Resistance To Lateral Load	Dr. S. N. Khante Applied Mechanics	15-02-2010 (No. 391/MUM/2010)	No
8	Surface Aerator Blades With Horizontal Bucket	Dr. M. N. Hedao Civil Engineering	25-05-2010 (No. 1613/MUM/2010)	No
10	RBF-MLP Cascade Neural Network Classifier for Fault Detection of Three Phase Induction Motor	Dr. V. N. Ghate Electrical Engineering	April 2010 (No. 0123/MUM/2010)	No
11	Eco-friendly Toilets for Existing Railway Passenger Coaches	Dr. A. G. Matani Mechanical Engineering	31/01/2012 (No. 300/MUM/2012)	No
12	Protective Flour Collection Device for Reducing Air Pollution and Flour Wastage in Existing Flour Mills	Dr. A. G. Matani Mechanical Engineering	22/02/2012 (No. 492/MUM/2012)	No
13	Synthesis of New Aurones	Dr. Ms. S. K. Doifode Chemistry Department	22/02/2012 (NO. 493/MUM/2012)	No
15	Feature Extraction Method for Handwritten Object	Dr. D. V. Rojatar	1438/MUM/2013	No

		Electronics Engineering		
16	Hybrid Moving Bed Bio-film Reactor	Dr. M. L. Gulhane Civil Engineering	736/MUM/2015	No
18	Programmable Multifunction Analog Array Design by Mixed Signal Control	Dr. V. N. Ghate Electrical Engineering	07/12/2016	No
19	Design and Development of A Gear Driven Sprinkler System	Dr. R. S. Dalu Mechanical Engineering	21/08/2017	No
20	Natural Product Based Plasticizers	Dr. S. N. Khante Applied Mechanics	25/01/2013 Journal No. 20/2018	No
21	Interface Layer Concrete Pavement Slab and Sub Base(DLC) or Subgrade	Dr. K. N. Kadam Applied Mechanics	2018	No
22	Design of Insulated Core Induction Motor for Enhancement of Its Characteristics	Dr. V. N. Ghate Electrical Engineering	09/03/2018	No
23	Cap making device and a process thereof	S. P. Kewate Mechanical Engineering	201721024646 App. 12/07/2017 Pub. 18/01/2019	No
25	A green roof system with bio composite retention layer	Dr.A.M.Mahalle	06/08/2021,(2021-21012046A)	Published/32/2021 No
26	A trapezoidal shape spin fin pile foundation	Dr.A.I.Dhatrak , Poonam Gawande	29/01/2022/ (202221004966)	Published/12/2023 No
27	A composition for subgrade stabilization for construction of road pavement	Dr.A.I.Dhatrak, Piyush Kolhe	14/03/2023 (202321017127)	Published/26/2023 No
28	A laminar Shear Box	Dr.A.I.Dhatrak, Darshan Deoda, Prof Sajnjay Thakare	06/02/2023 (202321007585)	No
29	Non-surgical non adhesive smart hearing aid using bone conduction transducer	Pratik Suryawanshi and Prof M.Shah	16/09/2022 (202221053068)	No
30	A solar Tracker System	Prof. Harne	31/01/2023 (202321006273)	No
31	“A TOE ANGLE ADJUSTING STEERING GEAR BOX”	Dr.R.M.Metkar, Mr. Ritesh Khuswa, Raj Yadav, Bhagirath Bhatt	03/07/2023 (202321044596)	Published/01/2024 05/01/2024 4 No

32	“A CONVERTIBLE SUSPENSION SYSTEM”	Dr.R.M.Metkar, Mr Atharva Joshi	28/06/2023 (202321043485)	Published/15/09/2023No
33	“A PLASTIC BOTTLE RECYCLING DEVICE FOR PRODUCING 3D PRINTER FILAMENT”	Dr.R.M.Metkar, Mr. Gaurang Shilledar	28/06/2023 (202321043142)	Published/15/09/2023No
34	A Device for blind and visually impaired people	Bhavesh Chaudhari, Jaydeep Gedam, Sakshi Khadilkar, Deepali Chandele, Shivendoo Deshmukh, Bhade A, Lohi S, Metkar, R, Uike D	29/09/2023 (202321065172)	No

Principal
Government College of Engineering
Amravati