



Research and Development Cell

Towards Global Technological Excellence

GOVERNMENT COLLEGE OF ENGINEERING, AMRAVATI

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Patents Awarded to Faculty:

Sr. No.	Patent/ Copyright	Applicant	Date/Year of Application
1	Surface Aerator Blades With Twin Cups	Dr. M. N. Hedao Civil Engineering	30-03-2010 (No. 977/MUM/2010)
2	Automatic Screw Assembly	Dr. R. S. Dalu Mechanical Engineering	29-07-2010 (No. 2158/MUM/2010)
3	Content Based Video Retrieval Using Empty, Edge Detection, Black and White	Prof. A. V. Deorankar Information Technology	25/01/2013 2089/MUM/2011
4	Design and Development of A Gear Driven Sprinkler System	Dr. R. S. Dalu Mechanical Engineering	21/08/2017

Patents Filed by Faculty:

Sr. No.	Patent/ Copyright	Applicant	Date/Year of Application
1	Horizontal Shaft Surface Aerator	Dr. M. N. Hedao Dr. S. K. Hirde Civil Engineering	15-01-2010 (No. 127/MUM/2010)
2	Impact-Triggered Accident Reporting Road Divider System	Prof. T. C. Bhagat Civil Engineering	25-01-2010 (No. 200/MUM/2010)
3		Dr. A. G. Matani	25-01-2010

	Exhaust Systems for Automobile Engines to Avoid Direct Emissions on Drivers	Mechanical Engineering	(No. 204/MUM/2010)
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)
5	Stepped Plate For Improved Ultimate Structural Resistance To Lateral Load	Dr. S. N. Khante Applied Mechanics	15-02-2010 (No. 391/MUM/2010)
6	Surface Aerator Blades With Cups And Weir	Dr. M. N. Hedao Civil Engineering	19-03-2010 (No. 743/MUM/2010)
7	Surface Aerator Blades With Horizontal Bucket	Dr. M. N. Hedao Civil Engineering	25-05-2010 (No. 1613/MUM/2010)
8	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)
9	Eco-friendly Toilets for Existing Railway Passenger Coaches	Dr. A. G. Matani Mechanical Engineering	31/01/2012 (No. 300/MUM/2012)
10	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)
11	Synthesis of New Aurones	Dr. Ms. S. K. Doifode Chemistry Department	22/02/2012 (NO. 493/MUM/2012)
12	Feature Extraction Method for Handwritten Object	Dr. D. V. Rojatkar Electronics Engineering	1438/MUM/2013
13	Hybrid Moving Bed Bio-film Reactor	Dr. M. L. Gulhane Civil Engineering	736/MUM/2015
14	Artificial Tidal Wetland System For Treatment of Domestic Waste Water	Prof. M. L. Gulhane Civil Engineering	E-12/86/2015/MUM
15	Programmable Multifunction Analog Array Design by Mixed Signal Control	Dr. V. N. Ghate Electrical Engineering	07/12/2016

16	Natural Product Based Plasticizers	Dr. S. N. Khante Applied Mechanics	25/01/2013 Journal No. 20/2018
17	Interface Layer Concrete Pavement Slab and Sub Base(DLC) or Subgrade Design of Insulated Core	Dr. K. N. Kadam Applied Mechanics	2018
18	Induction Motor for Enhancement of Its Characteristics	Dr. V. N. Ghate Electrical Engineering	09/03/2018