



NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
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Department of Electrical and Electronics Engineering

Patents Filed / Published Details for the AY 2020-21

Sl.No	Title of Patent/Discovery/Patent Pending No./ Patent No./ Patent Application Number	Jurisdiction/ Published in Indian Patent Journal/ Published Date	Inventors' Name Faculty Members/ Students/Emeritus Professors	Status
1.	Non-Isolated Bi-directional converters with Coupled Inductor (NBDCCI) for Hybrid Electric Vehicle (HEV) Applications Application No. PCT/IN2019/050392 Dt. 16/05/2019	Europe WO/2020161728 13/08/2020	Krishnamurthy Vinoth Kumar et.al (11)	Published in AY 2020-21
2.	An Efficient Air Conditioner with Self Sanitizing Techniques Australian Application Number: 2020102996 Dt. 24/10/2020. Australian Govt- Australian Official Journal of Patents – Vol. 34, No. 46, November 2020	Australia AOJoP Vol. 34, No. 46, 19/11/2020	Krishnamurthy Vinoth Kumar et.al (13)	Published & Granted in AY 2020-21
3.	Detection of Rotor Faults on Asynchronous Motor Using Motor Current Signature Analysis and Instantaneous Power Analysis Method. Indian Patent No. 43068/DEL/2020. Application No.202011043068 A Dt. 03/10/2020	India 43/2020 24/10/2020	Krishnamurthy Vinoth Kumar Dr. B. Gunapriya et.al (15)	Published in AY 2020-21
4.	An Improved Brain Emotional Learning-Based Intelligent Controller (BELBIC) Controller for PMBLDC Motor Drives using Emotional Learning Techniques Application No.202041030788 Dt. 20/07/2020	India No. 32/2020 Dt 07/08/2020	Dr. B. Gunapriya et.al (16)	Published in AY 2020-21
5.	Solar Powered Electric Tricycle for Physically Challenged Persons Application No.202041049220 Dt. 11/11/2020	India 47/2020 20/11/2020	Dr. B. Gunapriya et.al (15)	Published in AY 2020-21
6.	A method for rainfall prediction using Artificial Neural Networks	India	Dr. B. Gunapriya et.al (15)	Published in AY 2020-21

	Application No. 202011056465 A Dt. 25/12/2020	01/2021 Dated 01/01/2021		
7.	A smart agriculture monitoring system using Internet of Things Application No. 202011056466 A Dt. 25/12/2020	India 03/2021 Dated 15/01/2021	Dr. B. Gunapriya et.al (16)	Published in AY 2020-21
8.	Novel system, method, design, development, control and implementation of multilevel inverter connect E-2/2390/2021-CHE 202141045105 Dt. 05/10/2021	India	Dr. Sujitha S	Filed
9.	Railway Track Safety Monitoring and control system using IOT Application No. 202041048829 A Dt 09/11/2020	India 47/2020 Dt 20/11/2020	Dr. R. Mohan Das et al (14)	Published in AY 2020-21
10.	System and Method of a hybrid control model for power quality improvement of wind energy conversion system with unified power quality controller Application No. 202041030781A Dt 19/07/2020	India 31/2020 Dt 31/07/2020	Dr. R. Mohan Das et al (10)	Published in AY 2020-21