



**GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING
(Autonomous)**

(Approved by AICTE, Affiliated to JNTU – Kakinada)
Madhurawada, Visakhapatnam - 530048

Patents and Startups @ GVPCE Center for Innovation and Incubation

DETAILS OF PATENTS FILED BY FACULTY & STUDENTS

2022				
	Faculty / Students	Patent Title	Patent Reference	Patent Status
1.	Dr. Y. Anuradha	System to spirulina production using intelligent circuit	Nr.20 2022 101 508 German Government	Granted Date: 11.04.2022
2.	Dr. G. Madhuri	Determination of Mechanical properties of alkali activated slag concrete under ambient and heat curing	Application No.202241006293 A Date of Filing: 06.02.2022	Published 04.03.2022
3.	Dr. G. Madhuri	Performance of alkali activated slag concrete against acid and sulphate attacks	Application No.202241006297 A Date of Filing: 06.02.2022	Published 11.03.2022
4.	Dr. G. Anand Kumar & Dr. B. Jagadeesh	System For Morphology Segmentation Of Brain Mri Modalities Based On E-Fuzzy Features And Thresholds	Nr.20 2021 105 895 German Government	Granted Date: 13.01.2022

2021				
	Faculty / Students	Patent Title	Patent Reference	Patent Status
1	Dr. R. Velumani	Smart Food Storage System	Application No.201941013595 A Date of Filing : 04.04.2019 Publication Date: 26.4.2019	Granted. Date: 16.7.2021
2.	Dr. Y. Anuradha	Image Processing Based Covid-19 Prediction using Deep Learning.	2021106628 Issuing Authority: Australian Govt. dt 17.11.2021	Granted Eight years from 23.8.2021
3.	Dr. G. Santosh Kumar	A process for preparing slurry infiltrated fibre concrete	2021/04652 Republic of South Africa	Granted. 25 Aug 2021
4.	Dr. G. Santosh Kumar	A System and A Method for Evaluating Compression	2021102642 Australian Government	Granted. 8 years from

		Strength of a Material	Dt. 27 Oct 2021	18.5.2021
5.	Dr. G. Santosh Kumar	Formulation of Solid Inclusion Complexes of Clopidogrel Bisulphate and their Dissolution Enhancement using Artificial Neural Networks	2021105540 Australian Government Dt. 03 Nov 2021	Granted. 8 years from 15 Aug 2021
6.	Dr. G. Santosh Kumar	Formulation of Solid Inclusion Complexes of Clopidogrel Bisulphate and their Dissolution Enhancement using Artificial Neural Networks	Application No.202141028247 A Publication Date: 23 July 2021	Published
7.	Dr. G. Santosh Kumar	A system and a method for evaluating compression strength of a material	2021/04651 Republic of South Africa	Granted. 25 Aug 2021
8.	Dr. G. Santosh Kumar	Method of preparation of a solid inclusion complex using artificial Neural networks	2021/07925 Republic of South Africa	Applied
9.	Dr. U Aswani	Electronic Circuit for Speed Measurement of Electric Motors'	DRDO Application No.637/DEL/20212 Patent No.377183	Granted 17.09.2021
10.	K Beulah	Identification of forest fire susceptibility using GIS and Neural Network Approaches	2021106836 Australtian Government Date: 3.11.2021	Granted Eight years from 24.08.2021
11.	K Beulah	University Surveillance and Attendance System using Face recognition based on Machine Learning and Internet of Things	2021104568 Australian Government dt 8.9.2021	Granted Eight years from 26.7.2021
12.	K Beulah	Location based live flood Monitoring System	2021103955 Australian Government dt 6.10.2021	Granted Eight years from 8.7.2021
13.	K Beulah	A Smart and Cost effective Flood Pole	2021102016 Australian Government dt 26.5.2021	Granted Eight years from 19.4.2021
14.	B. Keerthi Priya	Intelligent Drug Quality Control Analysis System and Method based on Machine Learning	2021105401 Australian Government dt 27.10.2021	Granted Eight years from 12.8.2021
15.	B. Keerthi Priya	Low Cost automated Antimicrobial Susceptibility Testing System	202141017552 A Application Date: 15.04.2021 Publication Date: 30.7.2021	Published
16.	B. Keerthi Priya	Novel Internet of Things based Artificial Intelligence approach to health care monitoring and controlled System	202141026373 A Application Date: 14.06.2021 Publication Date: 02.07.2021	Published

17.	Dr. Sanjay K Darvekar	A fully automatic Dishwasher Apparatus and method therefor	Appln. No.: 201721024747 Patent No.383098 Date of Filing: 13.7.2017 Grant Date: 29.11.2021	Granted 20 years from 13.7.2017
18.	Prof DBV Jagannadham	Design Name : APPARATUS FOR MEDICAL WASTE TREATMENT	DESIGN NUMBER: 353410-001	
19.	Dr. G. Anand Kumar & Dr. B. Jagadeesh	An Image Separator For Both Letter And Photographic Information And Method Thereof	Application Number: 202141033363	Published Publication date: 06.08.2021
20.	Dr. G. Anand Kumar & Dr. B. Jagadeesh	An Ultra-Fast Wireless Mobile Charging System For 5g Based Portable Communication Devices	Application Number: 202141041399	Published Publication date: 01.10.2021

2020

	Faculty / Students	Patent Title	Patent Reference	Patent Status
1	K. Pradeep Varma Kalluri Gyan Sai Kokku Ratan Sai Rohith (Student Patent)	Real Time Accident Prediction and Driving Assistant system for Road Safety	Application No.202041040669 A Date of Filing : 19.09.2020 Publication Date: 25.9.2020	Published
2	Dr.Sastry V.Vedula, Mrs..K. Harijarani	Integrated power converter topology with built in protection circuit for Grid independent variable voltage, frequency applications	202041023203 03.06.2020	Applied

2019

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1.	Dr. JVS Murthy	Extraction of Azadirachtin and process thereof	201941042240 Date of Filing: 18.10.2019	Applied
2.	Dr.R.Velumani	IAD – System: Intelligent Accident Detection System	201911034024 A 06-09-2019 Date of filing: 23.8.2019 Publication Date: 6.9.2019	Published
3.	Tatavarti V.S.N. Rao, Ramana Murty Pidaparti and Sanjay Sarma Oruganti Venkata (2019).	'Systems and methods of use thereof for determining aerosol particle characteristics'.	US Patent Provisional Application 62/863,013/2019 US2020/0397341 dt 24.12.2020	Published

4.	Dr. B.V. Ramana Murty & Mr. K.S.R. Varun Teja, Mech. Engineering	Design of a flexible and height adjustable healing and ambulation assisting device for treating below the knee injuries and leg disabilities	Ref.No. No. 321000-001 App. Number 24-00 CBR No.15218 dt 25.08.2019	Design Patent. Examination completed. Awaiting for Grant
5.	Dr. Yarlagadda Anuradha	“Clustering based on Correlation Fractal Dimension over an evolving data stream”	201941027921 Date of Filing: 11/7/2019 Publication Date: 9.8.2019	Published
6.	Bh.V. Mahesh Subrahmanyam , 17135A0405m, ECE Vedantham. Venkata Naga Ananth Dupaguntla Jaya Raghu Vardhan	Growhitha – Automatic Natural Fertilizer Manufacturing Machine Tool	No.201941011104 App. No. TEMP/ E-1/11726/2019-CHE Dt: 22.03.2019 Publication Date: 25.9.2020	Published

2018

	Faculty / Students	Patent Title	Patent Reference	Patent Status
1	Dr. R. Velumani	A Wheezing Detecting Device	No.201841036882 A Date of filing: 28.9.18 Publication Date: 12.10.18	Published
2.	Dr. J. Bhaskara Rao, ECE	A Smart Desk Integrated System	Appln No. TEMP/E-1/26621/2018-CHE Ref.No.201841024671 Filing Date: 2.7.2018 Publication Date: 3.1.2020	Published
3.	Dr. KRK Shastry	Internet Enabled Remote Control device for Air Conditioners	Appln No.TEMP/E-1/8286/2018-CHE Ref No.201841008128 Filing Date: 6.3.2018 Publication Date: 13.9.2019	Published
4.	Dr. J. Bhaskara Rao, ECE	Automatic Dispensing System	Appln No. TEMP/E-1/7081/2018-CHE Ref No. 201841006837 Filing Date: 22.2.2018 Publication Date: 30.8.2019	Published

2017

	Faculty / Students	Patent Title	Patent Reference	Patent Status
1.	Dr. JVS Murty	A technology for production of mesophase pitch from coal tar	TEMP/E-1/7292/2017-CHE Ref. No. 201741007161 Filing Date : 28/02/2017 Publication Date: 7.4.2017	Published sent for examination

2.	B. Akhil Teja, Mech. Engg.	A variable pitch multi nut fastener and unfastener	TEMP/E-1/7293/1017-CHE Ref. No. 201741007162 Date : 28/02/2017 Publication Date: 31.8.2018	Published sent for examination
3.	A.K. Sriharsha (14-308), Mech. Engg. D. Tony Blayer (14-324)	A Wind Energy Conversion Assembly With Low Pressure Formation to Partially Enclosed Rotor structures	Appln No. TEMP/E-1/32425/2017-CHE/Ref No. 201741031926 Date : 09/09/2017 Publication Date: 15.3.2019	Published
4.	P. Manoj (M.Tech. II yr) & Dr. Sastry V. Vedula	AC-DC Dual Converter Topology for Variable Voltage and Variable Frequency Applications	Ref: No. 201741034040 Filing Date: 25.9.2017 Publication Date: 29.3.2019	Published
5.	Ganesh ECE	Intelligent charging of multiple electronic device with a Smart Charger	Appln No. TEMP/E-1/40136/2017-CHE Ref No.201741039886	Published

2016

	Faculty / Students	Patent Title	Patent Reference	Patent Status
1.	P. Krishna Subba Rao & Ajay Kumar	System for Detection of Application Layer Attacks	Applied. Docket No.44706. Application No.201641037178. Date of filing : 29/10/2016 Publication Date: 4.5.2018	Published. Applied for Examination
2	Shiv Kumar pattem & K. Sridhar	Modified Water Distribution System in Multi Storeyed Buildings	Applied. Docket No. yet to be received Application No. 201641022984 4.7. 2016 Publication Date: 5.6.2018	Published
3	Dr. S. Ramakrishna	Low Noise fibre reinforced Air Mover fabrication material.	Docket No.:5166 Application No. 201641005285 Date of filing : 15/2/2016 Publication Date: 1.4.2016	Published

2015

	Faculty / Students	Patent Title	Patent Reference	Patent Status
1.	P. Karthik, K Sneha, V. Sravani, P. Padma Priya	Mosquito repellent aroma candles and vaporizer using Essential oils	Docket No.40922 Application No: 7054/CHE/2015 Date of filing : 30/12/2015 Publication Date: 1.4.2016	Published
2.	G. Sai R. Reddy, B.S. Varma, B. Abhiram, G. Avinash	Vehicle speed monitoring and safety communication system	Application No: 203/CHE/2015A Date of filing : 13/01/2015 Publication date : 06/02/2015	Published

2010

	Faculty / Students	Patent Title	Patent Reference	Patent Status
1.	Dr. Tatavarti V.S.N Rao and K. Ganesan	Wireless communication system for automatic operation of routing gates at cross road junctions and for providing advanced alerts of disasters	IPO No. 3597/CHE/2010 Patent Filed, Chennai- November 2010	Published
2.	Dr. Tatavarti V.S.N Rao, M. Rajasekhara Babu, P. Venkata Krishna, B. Ramakrishna Rao, Shijo, Preetham, Rajesh	Method and apparatus for recognition of hand gestures of differently abled persons	IPO No. 2567/CHE/2010 Patent Filed, Chennai – September 2010	Published

2008

S.No.	Name of the Faculty	Title of the Patent	Patent No.	
1.	Tatavarti V.S.N Rao and T. Santhanakrishnan	New method and apparatus for simultaneous generation and detection of the optical diffraction pattern for vibration monitoring	International Patent filed in African Countries – PCT No. 1469/IN2008/000444 10 Jul 2008	Published

DETAILS OF PATENTS OBTAINED BY FACULTY

S.No.	Name of the Faculty	Title of the Patent	Patent No.
1.	Dr. Sastry V. Vedula, Professor, EEE and others	Power conversion control system including slide mode controller and cyclo-converter	US 2010/0284208 A 1 Dt. Nov. 11, 2010
2.		Identification and protection of an aerospace AC/DC power system in the presence of DC content due to faulty loads.	US 2010/0208393 A 1 Dt. Aug. 19, 2010
3.		Electromagnet and Elevator door coupler	WO 2007/044008 A 1 Dt. Dec 29, 2009
4.	Dr. Tatavarti V.S.N. Rao, Director, SIRC and others	New method and apparatus for simultaneous generation and detection of the optical diffraction pattern for vibration monitoring	Indian Patent IPO No. 1469/DEL/2007

5.		Opto-electronic system for real time monitoring of motions in stratified fluids	Indian Patent IPO No. 1819/DEL/2008
6.		New method and apparatus for simultaneous generation and detection of the optical diffraction pattern for vibration monitoring	US Patent No. US 2010/0321698/A1.
7.	Dr. G. Muralidhar, Professor, Department of Chemical Engineering	Improved processes for production of 2 – methyl pyrazene (2 – MP) from etnelenedianine and Propylene Glycol.	Indian Patent No. 185482
8.		Novel Promoted Zinc Chromite based catalysts for production 2 MP from etnylenediamine and propylene glycol.	Indian Patent No. 185150
9.	Dr. G. Muralidhar, Professor, Department of Chemical Engineering	A process for production of crystalline vanadium silicate by sol-gel technique	Indian Patent No.195810 _ 1997
10.		An improved device for producing Granulates pitch of Reduced Moisture Content	195002 dated 05-07-2006
11.	Dr. J.V.S. Murty, Professor, Department of Chemical Engineering	A process of manufacturing of 95% pure Anthracene from Coal Tar	198565 dated 11-10-2000
12.		A process for the manufacture of Technical Grade Carbazole	199410 dated 11-10-2000
13	Dr. P. Srinivasa Rao, Professor, Department of Mechanical Engineering	Flexible Contact Tube for Rotation Arc Welding	Indian Patent No. 206453 dated 02-07-2004

**STARTUPS INCUBATED AT
GVPCE CENTER FOR INNOVATION AND INCUBATION**

S. NO.	NAME OF THE STARTUP	NAME OF THE STUDENT(S)	DEPARTMENT
1	YAMINI INFINITY DRONES	G. Likhith Reddy (2022)	Mechanical engineering
2	KSHEMIN LABS	K. Pradeep Varma, K. Gnana Sai, K. Rohith (2021)	Electronics & Communication Engineering
3	MARS Inno	Bh.V. Mahesh (2020)	Electronics & Communication Engineering
4	INGENIOSH INNOVATIONS	Ch. Ganesh (2018)	Electronics & Communication Engineering
5	KINNO (K-INNOVATION LLC)	K. Hemanth (2017)	Electronics & Communication Engineering
6	26 ELEVEN E-MOBILITY SOLUTIONS	K. Mojesh Kumar (2017)	Electrical & Electronics Engineering
7	FURY DESIGN SOLUTIONS	K. Mojesh Kumar (2017)	Electrical & Electronics Engineering
8	KHADGA ENTERTAINMENT	J. Naveen, K. Swetha (2015)	Computer Science Engineering, Information Technology
9	FAN STATION ONLINE SERVICES	K. Prabhu (2015)	Computer Science Engineering
10	MAVERIC	G. V. S. Chaitanya (2015)	Computer Science Engineering
11	APXOR	Krishna Kiran Kasturi (2004)	Computer Science Engineering