



VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

An Autonomous, ISO 9001:2015 & QS I-Gauge Diamond Rated Institute, Accredited by NAAC with 'A++' Grade
NBA Accreditation for B.Tech. CE,EEE,ME,ECE,CSE,EIE,IT,AME, M.Tech. STRE, PE, AMS, SWE Programmes
Approved by AICTE, New Delhi, Affiliated to JNTUH, NIRF (2022) 113th Rank in Engineering Category
College with Potential for Excellence by UGC, JNTUH-Recognized Research Centres:CE,EEE,ME,ECE,CSE Vignana Jyothi
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DEPARTMENT OF HUMANITIES & SCIENCES

Summary of Patents & Copyrights of the faculty

Sl. No.	Academic Year	No. of Patent publications	No. of Copyrights
1	2023-24	6	3
2	2022-23	8	-
3	2021-22	5	-
4	2020-21	1	-
5	2019-20	0	1
	Total	20	4



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July 2023 – Till the Date

Sl. No.	Date of publication	Patent/ Copyright	Name of the faculty	Title	India/ International	Status & Application Number
1	22-03-2024	Patent	Dr. E. Ramesh	Transformative dynamics: Unveiling a comprehensive framework for customer experience, relationship management, and value co-creation	India	202441016959 A
2	20-01-2024	Copyright	Dr. Ujjwala Kakarla	A Darkened Diary	India	Published; ISBN: 978-93-609-4246-5
3	13-12-2023	Copyright	Dr. K. Neelaveni	Dialogue-based dataset for AI & ML virtual reality based chatbot for engaging learners in interactions for English language learning.	India	Published: L-138255/2023
4	07-12-2023	Copyright	Dr. Ujjwala Kakarla, Leena Pundir Agarwal, Tanu Gupta	Functional English for Communication	India	Published; ISBN:978-81-269-4002-8
5	24-11-2023	Patent	Dr. K. Ramaiah	Unlocking the secrets of micro plastic emissions from sewage plants with methodological analysis	India	Published; 202341067363 A

6	06-10-2023	Patent	Dr. K. Ramaiah	A technique for edge identification in individual Silicon crystal semiconductors using adaptive inpainting	India	Published; 202341061391 A
7	01-09-2023	Patent	Mr. D. Swarnakar	Implementation and analysis of fractional derivative based weighted skip connections for satellite image road segmentation	India	Published 202341035282 A
8	25-08-2023	Patent	Dr. Kotha Anil Kumar	Artificial Intelligence (AI) based public policy model for smart governance	India	Published; 202311050950 A
9	28-07-2023	Patent	Dr. Ch. V. L. L. Kusuma Kumari	A systematic statistical measurement of the effect of stocktaking on business performance in small and medium enterprises.	India	Published; 202311033210 A

July 2022 – June 2023

1	09-06-2023	Patent	Dr. Ch. V. L. L. Kusuma Kumari	Data science and machine learning based working employees stress forecast analytics by human resources	India	Published; 202311031393 A
2	19-05-2023	Patent	Dr. Ch. V. L. L. Kusuma Kumari	Design of a system to study the psychological signals of humans and predict the life stress using machine learning pipelines	India	Published; .202311026054 A
3	17-03-2023	Patent	Dr. P. Aparna, Dr. N. Pothanna, Dr. R. Srilatha, Mr. M. Raja Shekhar, Dr. M. Pavan Kumar Reddy	AI and Machine Learning techniques based on the role of linear algebra and its applications in monitoring of health care.	India	Published; 202341014207 A

4	17-02-2023	Patent	Dr. B. Srinivas	Method and system for providing machine learning (ML) models for rendering and executing physics simulations	India	Published; 202341004835 A
5	20-01-2023	Patent	Dr. M. Sumithra	Ferroelectric bridge junction device with computational modelling and synaptic features	India	Published; 202341002313 A
6	13-01-2023	Patent	Dr. Ch Shashi Kumar	Heat transfer analysis on electro-osmotic MHD peristaltic pumping of Jeffrey fluid in asymmetric rotating microchannel	India	Published; 202241076199 A
7	29-07-2022	Patent	Dr. Ch. Shashi Kumar, Dr. G. Jithender Reddy	Fluid dynamic melted Aluminium refinement in a designed furnace through a mathematical model	India	Published; 202241041907 A
8	22-07-2022	Patent	Dr. N. Pothanna	Efficient image smoothing and parallel structure design using five directional partial derivatives	India	Published; 202241037470 A

July 2021 – June 2022

1	10-06-2022	Patent	Dr. R. Srilatha	An approach for solving differential equations and variational problems based on python Elvet NN system	India	Published; 202214031513A
2	25-05-2022	Patent	Dr. K. S. Rudramamba	A series capacitive compensation technique with design based iterative algorithm for mitigation of Ferranti effect in EHV and UHV power transmission systems	India	Published; 202241027437 A
3	18-02-2022	Patent	Dr. B. Ashok, Dr. B. Srinivas	Method for the synthesis of mixed metal nanoscale composites using low cost precursors	India	Published; 202221003745 A

4	04-02-2022	Patent	Dr. B. Srinivas	User friendly new trend material for solar cell applications with low cost	India	Published; 202241003792 A
5	10-12-2021	Patent	Dr. I. Rajani (alias, Dr. T. Rajani)	Optical parameters of Gallium nitride doped ferrite Polypyrrole nanocomposites	India	Published; 202141055716 A

July 2020 – June 2021

1	05-03-2021	Patent	Dr. L. Srinivasa Rao	Development of Bismuth Borate glasses co-doped with small concentrations of Manganese oxide and Zirconium oxide nanoparticles suitable for luminescent materials	India	Published; 202141008364 A
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July 2019 – June 2020

1	20-11-2020	Copyright	Dr. Ch. Jyosna & Dr. N. Aruna Kumari	Post-Lockdown restart manual: Framework for prevention & mitigation of Covid-19	India	Published; L-96861/2020
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Filed for patent publication

1	19-08-2023	Patent	Dr. Linganaboina Srinivasa Rao	Development of transparent bismuth-borate-zirconium-manganese oxide nano glass ceramics with high refractive index	India	Filed; 202341055624
2	17-05-2022	Patent	Dr. E. Prasad	Mathematical modelling and Internet-of-Things based patient health monitoring system	India	Filed; 202241028401
3	10-05-2022	Patent	Dr. E. Prasad	Two-temperature magneto-thermo-elasticity for heat conductivity	India	Filed; 202241026851

