



# SRI VENKATESWARA COLLEGE OF ENGINEERING (Autonomous)

Karakambadi Road, Opposite LIC Training Centre, Tirupati – 517 507.  
Accredited by NBA (B.Tech – CSE, ECE, EEE, Mech., Civil and IT) & NAAC with ‘A’ Grade  
Approved by AICTE, New Delhi permanently affiliated to JNTUA, Ananthapuram.

## Department of MATHEMATICS

### DETAILS OF BOOKS/BOOK AUTHORS

S.No	Name of the Author & Position	Book Title	ISBN No	National / International	Publisher Name	YEAR	Month
01.	Dr. J. Anil Kumar, & Second	Handbook of Probability and Statistics for Engineers	978-93-5747-114-5	National	Iterative International Publisher	2022-23	May,2023
02.	Dr. K. Venkateswara Raju, & Second	MATHEMATICAL MODELLING BASICS	978-81-970114-3-6	National	REST Publishers	2023-24	January, 2024
03.	Dr. S. Sudhakar Reddy, & Third	Applied probability and Statistics	978-81-970228-3-8	National	RK Publications	2023-24	February, 2024
04.	Dr. K. Venkateswara Raju, & Third	Introduction to Data Science	978-81-967493-9-2	National	REST Publishers	2023-24	March, 2024
05.	Dr. K. Venkateswara Raju, & Second	Ordinary Differential Equations	978-81-972819-4-5	National	Infinite Research	2023-24	June, 2024
06	Dr. K. Venkateswara Raju, & Third	Numerical Methods	978-81-972819-4-5	National	Infinite Research	2023-24	June, 2024



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## LIST OF PATENTS 2023-24

S.No	Name of the Faculty	Title	Application NO	Status	Date
1	Dr. S. Sudhakar Reddy	Adaptive Integration and Differentiation Techniques Through fixed point analysis for Real-Time systems.	202341072138	PUBLISHED	15.12.2023
2	Dr. P. Sreenivasulu	Influence of Thermophoresis and Brownian motion of nanoparticles on radiative chemically-Reacting MHD Hiemenz flow over a nonlinear stretching sheet with heat generation.	202341047864 A	PUBLISHED	01.09.2023
3	<b>Dr. K. Venkateswara Raju</b>	Hybrid fixed point theoretic Models for Robust Differentiation and Integration in Multidimensional Spaces	202341034058	PUBLISHED	24/09/2023
4	<b>Dr. S. Sudhakar Reddy</b>	Method and System for Modelling Hesitant Bipolar-Valued Fuzzy Graphs in Mathematics	202341059007 A	PUBLISHED	03/09/2023
5	<b>Dr. K. Venkateswara Raju</b>	Mathematical modelling of Bubbly flow surface interactions in Multiphase systems	202341064057	Published	24/09/2023
6	<b>Dr. S. Sudhakar Reddy</b>	System and Method for Optimal Control of Magneto hydrodynamics Fluid	202341053540 A	Published	01/09/2023

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## Patents Published 2022-23

S.No	Name of the Faculty	Title	Application NO	Status	Date
1	Dr. Kumar K Dr. V. Lakshmi Devi Mr. Abinands Ramshanker Dr. K. Harshavardhana Reddy Dr. Avagaddi Prasad Dr. Devabalaji KR	Multi-Input Matrix Converter for Hybrid Solar and Wind System with Ex-OR Gate Logic	202241064970 A	Published	25/11/2022
2	Dr.P.Suresh Dr.Shaik Rafi Kiran Dr.D.Srinivasulu Reddy Mr.E.Nanda Kumar Ms.K.Yamuna Mr.B.Sreenivas Reddy Mrs.R.Sireesha Mr.M.Mahesh Swamy Ms.C.Bindu Sree Dr.K.Sudheer	SMART GARBAGE SEGREGATOR AND ENERGY GENERATOR	202341027809 A	PUBLISH ED	5-8-2023

## Patents Published 2021-22

S.No	Name of the Faculty	Title	Application NO	Status	Date
1	Mr. V V Supura Dr. N Visali Dr. Y N Vijaykumar Dr. Shaik Rafi Kiran Mrs. P. Suneetha Mr. Dandu Srinivas Dr. V Sekhar Mr. P VenkataVaraprasad Dr. Avagaddi Prasad Dr. K. Harshavardhana Reddy Dr. Kumar K	Droop Characteristics Based Power Supply for Electric Traction System	202141040185 A	Published	17/09/2021

## Patent Published 2020-21



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S.No	Name of the Faculty	Title	Application NO	Status	Date
1	Dr. Kumar K, Dr. V. Lakshmi Devi, Mrs. R. Sireesha, Mr. N.M. Girish Kumar, Mrs. B. Banusuriya, Mrs. P. Suneetha, Mr. Y V Krishna Reddy, Mr. Gowtham Chendra	Household Water Usage Auditing, Assessment Report and Scheduling	202141001828 A	Published	22/01/2021
2	Dr. Raja Reddy. Duvvuru, R. Sireesha, Dr. Luke John Baktha Singh Immaraju, Dr. Bolla Madhusudhana Reddy, Palleti Venkata Kusuma, M. Manikumar Reddy, Kameswara Vasishta Kumar Kavuturu, Dr. V. Lakshmi Devi, Dr. Varaprasad Janamala, Dr. Koritala Chandra Sekhar	Compact Washing Machine	339783-001	Published	26/02/2021
3	K.Vishnu Vardhan Reddy, K.Hemanth Kumar, N.Puneeth Kumar, Dr. K. Sudheer, P.Suresh, Dr. D Srinivasulu Reddy, Dr.N.Sudhakar Reddy	Intelligent Range Estimator and Crash Detector for Electric Vehicles	202141002284 A	Published	22/01/2021