

Name : Lt. Dr. T. Jagan
Staff ID : RCAS05618
Designation : Assistant Professor
Department : Mathematics
Experience : 8 years 9 months
Qualification : M.Sc., M.Phil., Ph.D
Specialization: Optimization Techniques
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ACADEMICS

Degree	Branch	Institution / University	Year of Completion
B.Sc.	Mathematics	Sri Ramakrishna Mission Vidhyalaya College of Arts and Science	2013
M.Sc.	Mathematics	Dr. SNS Rajalakshmi College of Arts & Science	2015
M.Phil.	Mathematics	Dr. SNS Rajalakshmi College of Arts &b Science	2017
Ph.D.	Mathematics	Karunya University	2022

RESEARCH AND PUBLICATIONS

Journal Publications

- **Jagan T & S. Elizabeth Amudhini Stephen** (2025) Cost Optimization of Tubular Columns through Non-Traditional Methods, Journal of Information Systems Engineering and Management, Vol 10, 25. <https://doi.org/10.52783/jisem.v10i25s.3973> (Scopus)
- **Jagan T & S. Elizabeth Amudhini Stephen** (2024) Design optimization of Turning Machine Process, Coupled Systems Mechanics, Vol. 13, No. 3 219-229, <https://doi.org/10.12989/csm.2024.13.3.219> (Scopus)
- **Jagan T & S. Elizabeth Amudhini Stephen** (2022) Design optimization of Shell and Tube Heat Exchanger through MATLAB and Simulation analysis. AIP Conference Proceedings 2670, 050001; <https://doi.org/10.1063/5.0115186> (Scopus)
- **Jagan T & S. Elizabeth Amudhini Stephen** (2021) Cost minimization of Turning Machining process with Material using ABC, Auction, Ant lion, Elephant Herding, Spiral, Bacterial, Greedy, Lawler's, Firework and Patternsearch. IOP Conf. Series: Materials Science and Engineering. 1(5), pp. 1126-1131. DOI [10.1088/1757-899X/1126/1/012056](https://doi.org/10.1088/1757-899X/1126/1/012056) (Scopus)
- **Jagan T & S. Elizabeth Amudhini Stephen** (2021) Minimizing Total cost for Shell and Tube heat Exchanger Using ABC, Auction, Ant lion, Elephant Herding, Spiral, Bacterial, Greedy, Lawler's, Firework and Pattern search. Turkish Journal of Computer and Mathematics Education. 12(11). DOI: [10.17762/turcomat.v12i11.6148](https://doi.org/10.17762/turcomat.v12i11.6148) (Scopus)
- **Jagan T & S. Elizabeth Amudhini Stephen** (2021) Cost Minimization of Turning

Machining Process Using Ten Non-Traditional Optimization Methods. Annals of Roman Society of Cell Biology. 25(6), pp. 10403 – 10409. DOI:[10.1088/1757-899X/1126/1/012056](https://doi.org/10.1088/1757-899X/1126/1/012056) (Scopus)

- **Jagan T** & S. Elizabeth Amudhini Stephen (2021) Minimization Total Cost of Gas Transmission Using ABC, Auction, Ant Lion, Elephant, Spiral, Bacterial, Greedy, Law's Fireworks and Pattern Search' Annals of R.S.C.B., 1583-6258. (Scopus)
- **Jagan T** & S. Elizabeth Amudhini Stephen (2018) A Critical Study on Non – traditional Optimization methods in optimizing Engineering problems. International Journal of Mechanical Engineering and Technology. 9(11), pp. 1199-1208. (Scopus)
- **Jagan T** (2018) 'Solving A Cash Flow Oriented EOQ Model Under Permissible Delay In Solving a cash flow oriented EOQ model under permissible delay in payment using Matlab' International Society for Research in Computer Science. ISSN- 2456-1452.
- **Jagan T** (2018) EOQ For Deteriorating Items with Non- Instantaneous Receipt Under Trade Credits with Shortages' International Journal of Scientific Development and Research. ISSN- 2455-2631
- **Jagan T** (2016) Solving A Cash Flow Oriented EOQ Model Under Permissible Delay in Payment Using MATLAB' International Society for Research in Computer Science. ISSN-2348-3040

Books

- Jagan, T. (2023). Advanced optimization techniques. Narine Publishers. ISBN: 978-96-85226-79-3

PRESENTATIONS

	State Level	National	International
Conference	1	-	7

FDP/PDP

State Level	National	International
-	17	6

Members in BoS/ Editorials/ Professional Bodies

- Journal Reviewer in Elsevier – Methodsx
- Journal Reviewer in Sigma Journal Of Engineering And Natural Sciences

