



RAMCO INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to Anna University
Accredited by NAAC & An ISO 9001:2015 Certified Institution
NBA Accredited UG Programs: CSE, EEE, ECE and MECH

Department of Mathematics

Academic Year 2023 – 2024

No. of Journal Publication	No. of Conference Publication	No. of Patent Published	No. of Book Published	No of Project Granted	No. of Project submitted
6	5	2	2	1	7

Journal Publication

1. **Selvaganesh T**, Selvaraj.C, published a paper entitled, “p-clean properties in amalgamated rings”, in Ratio Mathematica (UGC care list Group I Journal), Vol. 47, (2023), pages 375-384 on 30th June 2023. DOI:10.23755/rmv39i0.958.
2. **T. Selvaganesh, T. Manimaran, K. Subramanian, G. Selvaraj, R. Saravanakumar, Muthukrishnan Anand** published a paper entitled, "[A Note On Strongly Gorenstein X-Flat Modules](#)", Journal of Zoology, Vol.45, No. S(3), 2024. Pg 82 – 86.
DOI: <https://doi.org/10.53555/jaz.v45iS3.4312>
3. Antony Asir Daniel V , **Basarikodi K** , Suresh S , Nallasivan G , Bhuvanesh A , Milner Paul V , Development of Evolutionary Gravity Neocognitron Neural Network Model for Behavioral Studies in Rodents, Measurement Sensors, Vol (33), 101194.
<https://doi.org/10.1016/j.measen.2024.101194>
4. **R. Subasree & K. Basari Kodi** (2024), On Heptagonal Neutrosophic Semi-open Sets in Heptagonal Neutrosophic Topological Spaces: Testing Proofs by Examples. Neutrosophic Systems With Applications, 17, 59-67. <https://doi.org/10.61356/j.nswa.2024.17247>
5. **Selvaganesh T**, published a paper entitled, “Feebly p-clean Properties in Amalgamated Rings”, in Annals of Pure and Applied Mathematics, 29 (1) (2024), page 73-81.
6. **Selvaganesh T, Selvaraj C**, published a paper entitled, “Bi-amalgamated Rings with Weakly p-clean Properties”, in Annals of Pure and Applied Mathematics, 29 (2) (2024), page 109 – 118.

Conference Publication

1. **T. Selvaganesh**, presented a paper entitled, “Strongly J-clean properties in amalgamated rings” in the International Conference on New Trends in Applied Mathematics and Statistics organized by St. Joseph Arts and College for women, Salem on 25 October 2023.
2. **Subasree R, Basari Kodi K, Sathikala L**, presented a paper entitled, “Heptagonal Neutrosophic Quotient Mappings” in the International Conference on Mathematical Challenges and Novel Applications organized by ANJAC, RIT and SFRC on 21st and 22nd March 2024.
3. **Subasree R, Basari Kodi K, Subramanian K**, presented a paper entitled, “Generalized Heptagonal Neutrosophic Set” in the International Conference on Mathematical Challenges and Novel Applications organized by ANJAC, RIT and SFRC on 21st and 22nd March 2024.
4. **R. Saravanakumar, K. Basari Kodi, T. Selvaganesh, K. Subramanian**, presented a paper entitled, “A Semi-Analytical Approach to Reaction Diffusion for Oscillatory Chemical Reactions” in the International Conference on Mathematical Challenges and Novel Applications organized by ANJAC, RIT and SFRC on 21st and 22nd March 2024.
5. **T. Selvaganesh**, presented a paper entitled, “ $g(x)$ -p-clean properties in amalgamated rings” in the International Conference on Mathematical Challenges and Novel Applications organized by ANJAC, RIT and SFRC on 21st and 22nd March 2024.

Book Publication

1. Dr. K. Basari Kodi, Dr. L. Sathikala, Dr. T. Manimaran, Mr. K. Subramanian, Dr. R. Subasree, Mr. T. Selvaganesh, published a book on “Discrete Mathematics”, in Vishnu Prints Media, ISBN: 978-81-19432-48-6.
2. Dr. K. Basari Kodi, Dr. L. Sathikala, Dr. T. Manimaran, Mr. K. Subramanian, Dr. R. Subasree, Dr. G. Selvaraj, published a book on “Statistics and Numerical Methods”, in Pearson publishers, ISBN: 978-93-615-9771-8.

Project Submission

S.No	Name of the Faculty Member	Title of the project	Submitted in the organisation	Amount
1	Dr. T. Manimaran	Life Skills and Employability Skills	SEG under UBA	Rs.100000
2	Mr. T. Selvaganesh	Rural infrastructure development using tree plantation	SEG under UBA	Rs.50000
3	Dr. R. Saravanakumar	Bio Septic Tank Installation in Rural Areas	SEG under UBA	Rs.50000
4	Dr. L. Sathikala	Entrepreneurship Development for women in Rural Areas	SEG under UBA	Rs.100000
5	Dr. R. Subasree	Creating Women Entrepreneurs to produce organic Fertilizers and organic farming	SEG under UBA	Rs.50000
6	Dr. K. Basari Kodi	Happy Schooling through ICT-enabled Mathematics learning in Secondary/Higher secondary school	SEG under UBA	Rs.100000
7	Dr. K. Basari Kodi	Skill Development Training program for women on Motorcycle troubleshooting and basic bike services	SEG under UBA	Rs.50000
8	Dr. T. Manimaran, Mr. T. Selvaganesh, Dr.R.Saravana Kumar Dr. M. Anand, Dr. M. Anish Alfred Vaz	UBA activities	The State Institute of Rural Development and Panchayat Raj (SIRDPR)	Rs.60000 granted

PATENT				
1	Dr. G. Kannan	Knowledge Based Python Algorithm Model to Provide a General Framework for Constructing Pentapartitioned Fuzzy and Neutrosophic Closed Sets with its Extension in Topological Space along with an Unconventional Approach Towards Machine Learning Enhancements	Patent - Published	Application No.202341073238 A, Publication Date : 15/12/2023
2	Dr. T. Manimaran, Mr. T. Selvaganesh, Dr.K. Saravanakumar, Dr. G. Kannan	NOVEL ALGORITHM FOR RAPID PRIME NUMBER FACTORIZATION USING QUANTUM COMPUTING	Patent - Published	Application No: 202341080268 A, Publication Date : 22/12/2023