

Research Insights @ RUAS

Office of Research and Innovation



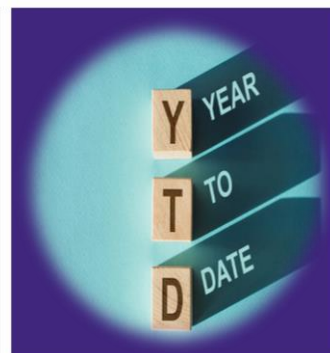
*December 2025
Issue 8*

PATENTS	
JAN-DEC	
Filed	32
Published	26
Granted	15
*Courtesy: OMS Patents Database	

PUBLICATIONS	
JAN-DEC	
Scopus	459
Total	853
Google Scholar	668
Citations	45104
h-index	70
* Researgence 2.0 reports	

EXTRA-MURAL GRANTS APPLIED 2025						
Faculty	Jan-Oct	In Lakhs	Nov	In Lakhs	Dec	In Lakhs
RINER	2	50.0	1	22.5	2	53.6
FDS	10	750.24	2	126.3	-	-
FLAHS	14	670.34	5	286.7	1	40.0
FNS	5	514.41	4	233.54	-	-
RCPT	3	212.61	-	-	-	-
ORI	7	601.64	-	-	-	-
RMC	10	251.84	-	-	-	-
ALC	1	10.00	-	-	-	-
FPH	2	69.09	-	-	-	-
FHMCT	2	28.97	-	-	-	-
SSS	6	543.37	2	148.4	-	-
FET	11	819.12	-	-	-	-
FMC	5	153.34	-	-	2	29.7

JAN-DEC 2025

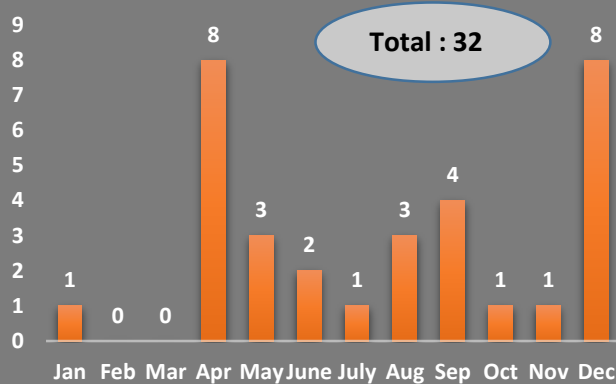


□ *Total Patents Filed*

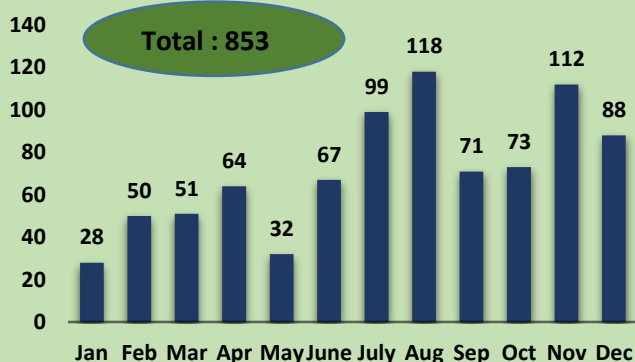
📖 *Total Publications*

🎯 *Grants Applied*

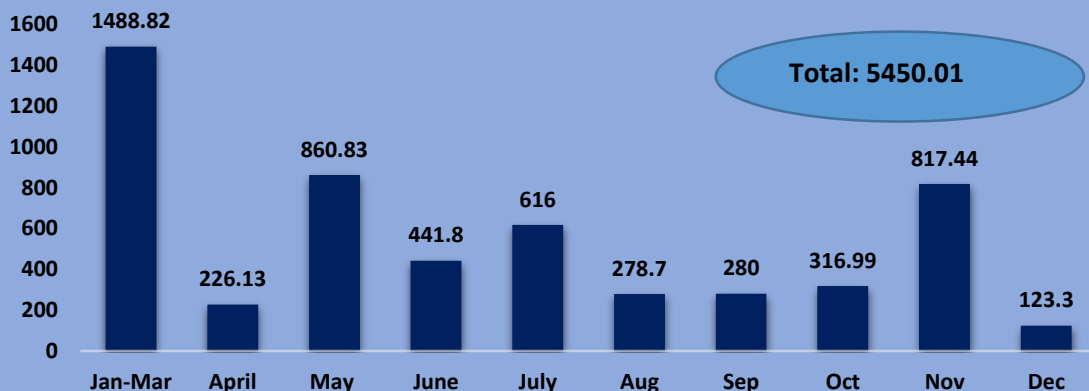
TOTAL PATENTS FILED - 2025



TOTAL PUBLICATIONS - 2025



EXTRA-MURAL GRANTS APPLIED (In Lakhs) - 2025



ACADEMIC EVENTS

Ramaiah University of Applied Sciences successfully hosted the IIC Regional Meet 2025 on 2 December 2025 at the RMC Auditorium, in collaboration with MoE–IIC and AICTE. The event witnessed participation from 1500+ delegates, including innovators, faculty, startups, industry mentors, incubators, and officials from MoE and AICTE. Key highlights included the Yukthi Innovation Challenge, poster presentations, innovation project exhibitions, Swadeshi Udyami Bazar, networking sessions, and an awards ceremony—showcasing the vibrant innovation and entrepreneurship ecosystem at RUAS.



HealAI (GVA Healthcare), a startup supported by RMC and the Centre for Entrepreneurship (CFE), RUAS, received the IKMC 2025 “Future Under 25 Stars” recognition at the 19th International Knowledge Millennium Conference held in Hyderabad by IKP Knowledge Park. The team also secured a ₹5 lakh grant to advance their healthcare innovation. Founded by Aditya BV (RMC) along with Gaurav Nirmal Kumar and Vishal Shetty (MSRIT), HealAI has developed a machine-learning-enabled mobile application for monitoring diabetic foot ulcers, aimed at reducing severe complications such as amputations. The startup’s growing list of accolades highlights RUAS’s strong ecosystem for student-led, interdisciplinary innovation.



The Centre for National Security Studies (CNSS), in association with the Usanas Foundation and TrendsNAfrica (QUAD Advisory), successfully organised a conference webinar titled “India and Africa: Forging New Pathways for Strategic Partnership” on 5 December 2025. The webinar featured insightful deliberations on strategic, economic, and geopolitical dimensions of India–Africa relations, highlighting emerging avenues for collaboration and partnership.



ACADEMIC EVENTS



The 8th National Conference on Multidisciplinary Design, Analysis, and Optimisation (NCMDAO-2025) was jointly organised by RUAS, IISc, and CSIR-NAL from 3 to 5 December 2025 at the Ramaiah Technology Campus, Peenya. The conference brought together researchers, academicians, and industry experts to deliberate on recent advancements and interdisciplinary approaches in design, analysis, and optimisation across engineering domains.



Team LEADS Next Gen Centre, RUAS, has been recognized under the WEN India Udaan Program 1.0 – Internship with Women Entrepreneurs for its exemplary dedication, innovative problem-solving approach, and meaningful contributions throughout the programme. This honour highlights the Centre’s commitment to its core values- Learning, Empowerment, Action, Development, and Sustainability-and its continued focus on shaping future-ready leaders.



The Department of Computer Science & Engineering, RUAS, marked World Computer Literacy Day with a special programme titled “Click & Learn – Keyboard to Confidence” on 5 December 2025 at the RTC Campus, Peenya. The initiative focused on fostering digital awareness and strengthening basic computer skills, especially among housekeeping staff from RUAS and its partner organisations. The event was graced by the presence of Mr. Suresh V, Senior Manager, Pragati Automation Pvt. Ltd., as the Chief Guest, and highlighted the importance of building confidence through hands-on digital learning.

ACADEMIC EVENTS

The Centre of AI for Social Good, RUAS, conducted a Winter School Programme in November to December 2025, engaging 100+ school students through interdisciplinary, hands-on sessions on responsible AI, psychology, sociology, economics, public policy, and law. The programme concluded with an interactive mock Trial Demonstration during a campus visit, reinforcing experiential and socially relevant learning.



Ramaiah University of Applied Sciences successfully hosted the Inauguration Ceremony of the Smart India Hackathon (Software Edition) 2025 Finals on 8 December 2025 at the Dwaraka Auditorium, GG Campus. As one of India's largest national innovation initiatives, SIH brought together young innovators to solve real-world challenges under the theme "Hack for BHARAT, Build for the World." Hosting this prestigious event underscored RUAS's growing role in the national innovation ecosystem and its strong collaboration with MoE-Innovation Cell, AICTE, industry partners, and knowledge partners.



RAMAIAH UNIVERSITY OF APPLIED SCIENCES | **INSTITUTION'S INNOVATION COUNCIL** | **MINISTRY OF EDUCATION** | **AICTE** | **MoE's INNOVATION CELL (GOVERNMENT OF INDIA)**

Cordially invites you to
Inauguration of
Smart India Hackathon 2025
Hack for BHARAT, Build for the World

The Office of Research and Innovation, RUAS successfully organised the 2nd Research Scholars Symposium – "Shodh-2025" on 11–12 December 2025 at the Ramaiah Technology Campus, Peenya. Organised and managed by RUAS research scholars, the symposium featured 70+ research presentations across disciplines, fostering academic exchange and collaboration. The event was inaugurated by Sri K. P. Murthy, Former General Manager, Bosch Pvt. Ltd., who delivered the keynote address on sustainable technologies.



RAMAIAH UNIVERSITY OF APPLIED SCIENCES | **INSTITUTION'S INNOVATION COUNCIL** | **shodh**

2nd ANNUAL RESEARCH SCHOLARS SYMPOSIUM 2025
M S Ramaiah University of Applied Sciences
December 11-12, 2025
MS Ramaiah University of Applied Sciences, WTC Campus, Peenya, Bangalore

ADVANCES IN SUSTAINABLE TECHNOLOGIES, DESIGN AND INNOVATIONS

ABOUT THE SYMPOSIUM
Please join us at our Annual Research Scholars Symposium to engage in pioneering research, participate in enlightening discussions with esteemed scholars, and connect with experts in the field of innovation.

THEMES FOR THE SYMPOSIUM

AI and QC AI Algorithm and Optimization Machine Learning and Deep Learning Quantum Algorithm and Applications AI in Healthcare and Engineering Applications	Material Research Functional Material Structural Material Smart Material Bio-medical Material
Interdisciplinary Advances in Health Molecular Insights in Diseases Microbes in Health and Industry Next Generation Therapeutics and Interventions Clinical Biomarkers and Predictive Diagnostics Food, Function and Nutrition	Sustainable Technology, National Security and Social Impact Engineering Analysis for Sustainability Green Energy Balancing Liberty and Security Society, Rights, and Risks

CALL FOR ABSTRACTS
Abstract submission open for all Ph.D Scholars, PG and UG Students.
Abstract submission deadline: **December 6th**

For any queries : shodh.research@msruas.ac.in



Scan to Register

ACADEMIC EVENTS




Faculty of Management and Commerce
Research Cafe Event - 7
Regulation to Reputation: The Managerial Value of Food Defense Compliance

Food defense compliance is no longer a regulatory obligation alone; it has become a core strategic asset for organizations operating in increasingly vulnerable and globalized food supply chains. By aligning with frameworks such as FSMA and Codex, firms not only safeguard products from intentional contamination but also strengthen operational credibility, enhance stakeholder trust, and protect brand reputation. For managers, robust food defense planning enables risk-informed decision-making, improves supply chain transparency, and positions the organization as a responsible and resilient market leader. This evolving landscape also offers valuable research opportunities in understanding managerial decisions, technology adoption, and the long-term performance impact of food defense practices.



13 December 2025 (Saturday)
10:00 AM - 12:00 PM (India)
Venue: Online
[Register Here](#)
<https://forms.office.com/r/wuNT2uVGA6>
Mr. Riyaz Ahmad. A.
Principal Consultant
Swasthya Food Consulting

All Students, Research Scholars and Faculty are welcome

The Faculty of Management and Commerce, RUAS hosted an expert talk titled “Regulation to Reputation: The Managerial Value of Food Defense Compliance” on 13 December 2025. The session explored how Food Defense compliance strengthens organizational credibility, stakeholder trust, and resilient supply chains, while highlighting research opportunities in managerial decision-making, technology adoption, and performance outcomes. The online session engaged students, research scholars, and faculty members.






DEPARTMENT OF
AEROSPACE AND AUTOMOTIVE ENGINEERING
INVITED TALK ON

**REMINISCENCES ON
A CFD JOURNEY**

The evolution of some simple but significant CFD ideas is covered from a personal perspective. The talk would embark with discussion on Taylor series based ideas to polynomial representations and linear algorithms to nonlinear algorithms for advection schemes. It would then expand to cover the role of the conservation law form of the differential equations and the evolution of the integral law form representation, followed by the description of salient characteristics of the finite difference and the finite volume schemes. Interesting features of the numerical conservation form of Lax-Wendroff and Upwind Schemes will be discussed and the talk would conclude with notes on numerical dissipation and dispersion.

15 DEC 2025 | 2:30 PM TO 3:30 PM



Dr. Sukumar Chakravarthy
Metacomp Technologies

TO JOIN ONLINE
[CLICK HERE](#)

Venue: A-206, RTC, M. S. Ramaiah University of Applied Sciences, Peenya 4th Phase, Bengaluru - 560058
Coordinator: Dr. M. Sivaprasam | +91 98908 77717 | sivaprasam.aec@ramias.ac.in

The Department of Aerospace and Automotive Engineering, RUAS organised an expert talk titled “Reminiscences on a CFD Journey” by Dr. Sukumar R. Chakravarthy, Founder and President, Metacomp Technologies Inc. The session, held at the Ramaiah Technology Campus, Peenya, offered valuable insights into the evolution and practical applications of Computational Fluid Dynamics (CFD) and witnessed active participation from faculty and student enthusiasts.



**RAMAIAH
UNIVERSITY**
OF APPLIED SCIENCES

**Faculty Development
Programme**

On
**“The 3D Printing
Workflow”**

Date : 16 Dec 2025 to 23 Dec 2025
Time : 10:00 AM onwards
Venue : Digital Design Studio,
Faculty of Art and Design
Ramaiah Technology Campus,
Peenya,
Bengaluru - 560058

The Department of Industrial Design, Faculty of Art and Design, RUAS, organised a five-day Faculty Development Program (FDP) titled “The 3D Printing Workflow” in collaboration with Conceptia Software Technologies Pvt. Ltd. and industry experts. Conducted from 16 to 23 December 2025 at the Digital Design Studio, Ramaiah Technology Campus, Peenya, the programme focused on 3D modelling and additive manufacturing workflows, offering faculty members valuable hands-on, industry-aligned exposure.

ACADEMIC EVENTS

The Pyramid Spiritual Societies Movement (PSSM) marked World Meditation Day by hosting a Symposium of Meditation Leaders on 18 December 2025 at the Ramaiah Medical College Auditorium. The programme included expert talks, panel discussions, and guided meditation sessions that highlighted the importance of meditation in promoting emotional well-being, effective stress management, and a healthy work-life balance. The event was presided over by Dr. M. R. Jayaram, Hon'ble Chancellor, RUAS, and saw enthusiastic participation from faculty, staff, and students.



The Centre for National Security Studies (CNSS), MS Ramaiah University of Applied Sciences, Bengaluru, marked its academic presence at two TECC-JNU international conferences held in November and December 2025. Dr. Sruthi Kalyani, Senior Research Officer (Emerging and Deep Technologies), was invited as a panelist at *The Fluid Frontiers: Taiwan's Maritime Diplomacy and the Indo-Pacific* (Ravenshaw University, Odisha) and *The Soft Power Confluences in India-Taiwan Relations* (Dibrugarh University, Assam), organised by JNU with support from the Taipei Economic and Cultural Center (TECC), India.



The Department of Fashion Design, Faculty of Art and Design, RUAS successfully conducted *First Groove of Fashion Style Supreme – 2025 (FGFSS-1)*, an Inter-University/Collegiate Fashion Competition, on 22 December 2025 at RTC, Bengaluru. This marked the inaugural event of the Fashion Design Student Chapter, RUAS, in association with AATCC (American Association for Textile Chemists and Colorists). The competition featured innovative themes including *Traditional Fashion Meets Digital Fashion*, *Sustainable Fashion*, and *Fashion Style for 2047*.



ACADEMIC EVENTS

The Institution's Innovation Council (IIC), in association with the Departments of Mechanical Engineering and Electrical Engineering, RUAS, and in collaboration with Karnataka Renewable Energy Development Limited (KREDL), successfully organized the *Celebration of Energy Conservation Day – 2025* on 23 December 2025 at Ramaiah Technology Campus, Peenya. The programme was graced by Mr. K. P. Rudrappaiah, Managing Director, KREDL, as the Chief Guest, and Prof. Kuldeep Kumar Raina, Hon'ble Vice Chancellor, RUAS, who presided over the function. Their addresses highlighted the critical importance of energy conservation, sustainability, and the role of academic institutions in advancing India's renewable energy mission.



M. S. Ramaiah University of Applied Sciences celebrated *National Mathematics Day 2025* on 23 December 2025 at the Ramaiah Technology Campus, Peenya. The event was jointly organized by the Department of Mathematics and Statistics and the Mathematics and Computing Programme (Department of CSE). The programme featured a Keynote Address by Prof. Sandeep K., Dean, TIFR Centre for Applicable Mathematics, and recipient of the Shanti Swarup Bhatnagar Award for Mathematical Sciences (2015).




*M. S. Ramaiah University of Applied Sciences
cordially invites you to*

The Celebration of

National Mathematics Day 2025

Date : 23 December 2025, 10:00 AM
Venue : A-206, Ramaiah Technology Campus,
 470-P, Peenya 4th Phase, Peenya, Bengaluru - 560058

NSS RTC, Ramaiah University of Applied Sciences (RUAS), in association with the Associate Dean – Well Being and Rotaract Warriors, organised a hands-on CPR training session on 19 December 2025 at the Ramaiah Technology Campus, Peenya. The session was conducted by Ms. Ramya, Assistant Professor, Faculty of Nursing, who provided practical demonstrations and hands-on guidance on essential life-saving CPR techniques.





**ESSENTIAL
HANDS ON TRAINING
CARDIOPULMONARY
RESUSCITATION (CPR)**

DATE : 19TH DECEMBER 2025
TIME : 02:30 PM ONWARDS
VENUE : A206, RTC, RUAS, PEENYA

Join our interactive hands-on CPR session and learn how you can save a life! Learn just your two hands make pump! Second chance, be a golden minute warrior—step forward to act, help, and make a life-saving difference.

Contact:
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 NSS PROGRAM OFFICER
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Scan to join the Group:

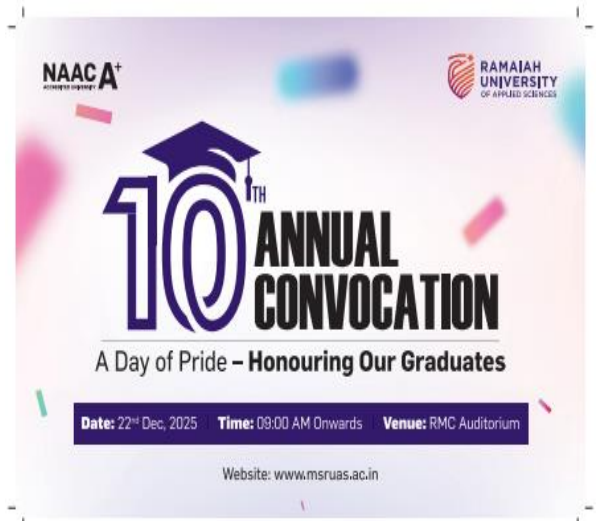


ACADEMIC EVENTS

The Department of Mechanical Engineering (Robotics Club), M. S. Ramaiah University of Applied Sciences, organized a Guest Lecture on “Emerging Trends and Applications in Robotics and Automation” on 19 December 2025, followed by a Mini Project Exhibition at Ramaiah Technology Campus. The guest lecture was delivered by Smt. Pooja R. Singh, Training Officer, NSTI. As part of the continuous assessment for the course *Embedded Processor and Controllers (ROC303A)*, III Year B.Tech (Robotics Engineering), V Semester students showcased innovative microcontroller-based robotic applications through live hardware demonstrations.



M. S. Ramaiah University of Applied Sciences conducted its 10th Annual Convocation on 22 December 2025, marking a significant academic milestone for the University. The ceremony honoured graduating students with the conferment of degrees and medals in the presence of distinguished dignitaries. The convocation celebrated academic excellence and the successful completion of studies by the graduating batch, reflecting the University's commitment to quality education and professional achievement.



M.S. Ramaiah University of Applied Sciences has received a ₹50,000 sponsorship from Karnataka Renewable Energy Development Limited (KREDL) towards organizing Energy Conservation Day – 2025, scheduled on 23 December 2025. The support reflects KREDL's encouragement of sustainability initiatives at RUAS. The University acknowledges the guidance and support of the RUAS Leadership Team and looks forward to active participation from all departments in making the event impactful.

HIGHLIGHTS/RECOGNITIONS

FACULTY OF PHARMACY



Dr. M. Mohamed Shabi successfully completed a One-Day Essential Hands-on Training Program on Cardio Pulmonary Resuscitation (CPR) held on 19 December at the RIT Campus, Ramaiah University of Applied Sciences, Bengaluru. The program provided practical exposure to life-saving emergency procedures and enhanced clinical readiness in cardiac and respiratory emergencies.



Dr. M. Mohamed Shabi participated in the JoVE Seminar titled “Adaptive Shifts: Flipped Learning in Living Systems Biology”, organised by the Journal of Visual Experiments (JoVE) and held on 18 December 2025 in Bengaluru, Karnataka, India. The seminar highlighted innovative flipped classroom approaches, use of visual learning resources, and student-centric pedagogical strategies to improve engagement and conceptual understanding in living systems biology.



Dr. M. Mohamed Shabi participated in an Expert Talk titled “Regulation to Reputation: The Managerial Value of Food Defense Compliance” held on 13th December 2025 at Faculty of Management and Commerce, M S Ramaiah University of Applied Sciences, Bangalore. The session emphasized the growing importance of food defense compliance as a strategic tool for safeguarding organizational reputation, strengthening stakeholder trust, and ensuring resilient supply chains. It also highlighted emerging research opportunities in managerial decision-making, technology adoption, and performance outcomes related to food defense.

PUBLICATION HIGHLIGHT

Dr. B. Prabadevi, Department of Computer Science & Engineering, has published several notable research works under RUAS affiliation during 2025. Her publications include “Deepfakes Detection Using Convolutional Neural Networks” in Signal, Image and Video Processing (Springer); “A Review on Recent Advancements of ChatGPT and Datafication in Healthcare Applications” in Computers in Biology and Medicine (Q1); and a Scopus-indexed Wiley book chapter titled “Adverse Impact of Human Data Science in Pharmacovigilance (HDS-PV) and Their Potential Applications.” She has also successfully guided and completed one PhD scholar at her previous institution, reflecting her strong academic and research leadership.

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Deepfakes detection using convolutional neural networks

Original Paper | Published: 30 July 2025

Volume 19, article number 944, (2025) [Cite this article](#)

Priyanshu Srivastva & Prabadevi B



Computers in Biology and Medicine
Volume 197, Part A, October 2025, 110885



A review on recent advancements of ChatGPT and datafication in healthcare applications

Senthil Kumar Jagatheesaperumal^a, Abinaya Pandiyarajan^b, Prabadevi Boopathy^c, N. Deepa^d, Artur Gomes Barreto^e, Victor Hugo C. de Albuquerque^e

Dr. M. Mohamed Shabi et al., (2025) published a research article titled “Rectal Drug Delivery Systems (RDDS) in Inflammatory Bowel Disease (IBD) Therapy: Current Status, Challenges and Emerging Strategies” in the Q1 Journal of Drug Delivery Science and Technology (Impact Factor: 4.9), Volume 114, Part B, 107567, demonstrating high-quality research output.



SEMANTIC SCHOLAR

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DOI: 10.1016/j.jddst.2025.107567 • Corpus ID: 281653639

Rectal Drug Delivery Systems (RDDS) in Inflammatory Bowel Disease (IBD) Therapy: Current Status, Challenges and Emerging Strategies

P. Monika, Maitreyi Darbha, S. Reneeka, Kirti Gupta, Tejasree Hr, M. Shabi, Shwetha Krishnamurthy [less](#)

Published in *Journal of Drug Delivery*, 1 September 2025 • Medicine

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