



SANKAGIRI
VIVEKANANDHA
PHARMACY COLLEGE FOR WOMEN
Veerachipalayam, Sankagiri, Salem, Tamil Nadu - 637303



**ASTER
NEWS
LETTER**
DECEMBER - 2025



SWAMY VIVEKANANDHA MEDICAL COLLEGE HOSPITAL AND RESEARCH INSTITUTE

Elayampalayam - 637 205, Tiruchengode, Namakkal Dt.,
website : svmchri.com, e-mail : svmchriadmissions@vivekanandha.ac.in



- Accident and Toxicology Emergency Care
- General Medicine
- Diabetology
- Cardiology
- Obstetrics and Gynecology
- Orthopedic Surgery
- General Surgery
- Pediatrics
- Physiotherapy & Rehabilitation
- Nephrology
- Ophthalmology
- Medical Oncology
- Radiology (CT / MRI / USG)
- ENT
- Obesity and Fitness Center
- Nutrition and Dietetics
- 24 hrs Cath Lab
- Laparoscopic Surgery
- Neurology
- Master Health Check - UP
- Dental Care



VIVEKANANDHA
MEDICAL CARE HOSPITAL

Elayampalayam, Tiruchengode Taluk, Namakkal Dist, Ph : 04288 - 224422, 7373100100



NABH Pre Accredited

24 Hours Emergency Cardiac Center



24 HOURS EMERGENCY
AMBULANCE CONTACT

 **7373 100 100**

Thiru Balaji Scan Centre, Allwin Diagnostics (P) Ltd.,

Main Campus : Elayampalayam, Tiruchengode, Namakkal Dt., Tamilnadu.

Branch : Tiruchengode Town.

Mail : care@vivekanandha.hospital / Web : vivekanandha.hospital





“VIDHYA RATHNA”

**Prof. Dr. M. KARUNANITHI B.Pharm., M.S., Ph.D., D.Litt.,
Chairman & Secretary**

Vivekanandha Educational Institutions & Hospitals

Tiruchengode & Sankari

The Chairman’s Desk

Prof.Dr.M.Karunanithi is the Chairman and Secretary, Vivekanandha Educational Institutions for Women & Vivekanandha Medical Care Hospital. The untiring work of the philanthropist, and the living legend, has been honored with Vidhya Rattan, Rashtriya Rattan, Hind Rattan, and Kongunattu Sathanaiyalar for his sincere and committed work for the successful enhancement of women and empowerment in different educational genres. Such a benefactor of women hatches vision with mission and fosters their developments in all walks of life. He is a versatile person and a pioneer in the field of women empowerment and a role model to all the young minds. He is a man of wisdom who paves the right path for thousands and thousands of women students.

The principal's Desk

A warm and hearty welcome to Vivekanandha Pharmacy College for Women, Sankari. It is with immense pride and a deep sense of responsibility that I lead this esteemed institution, a place where future generations of women leaders in pharmacy are nurtured.



Our core commitment is to a triad of excellence: academics, research, and holistic development. We believe that true education transcends the classroom. This belief is brought to life by our experienced and dedicated faculty, who serve as mentors and guides. They are supported by our state-of-the-art facilities and a comprehensive curriculum designed to be both rigorous and relevant. This powerful combination ensures that our students are not just well-educated, but also well-prepared to confidently step into their future careers and make a significant impact.

A ACADEMIC EXCELLENCE
S STUDENT- CENTERED
T TEACHING /TRAINING /
TECHNOLOGY
E EDUCATION / EXTENSION
R RESEARCH / RESPONSIBILITY

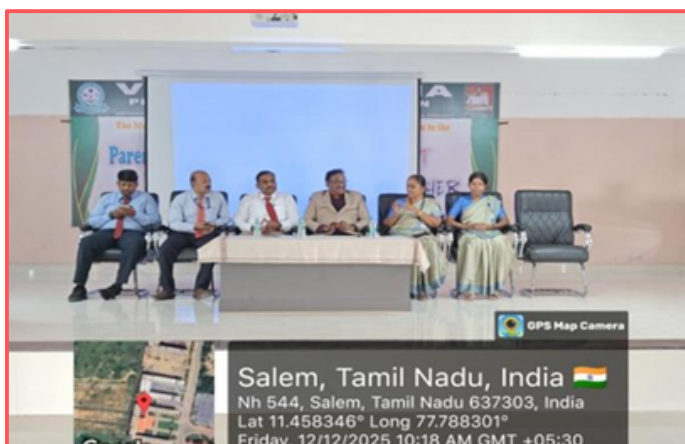
Academic Excellence

On December 18, 2025, the Tamil Nadu Dr. MGR Medical University announced the results of the B. Pharm VII semester examinations. We are thrilled to highlight the exceptional accomplishments of our faculty members who have significantly contributed to the impressive academic performance of our B. Pharm students. Through their unwavering guidance, dedication, and student-focused teaching, our faculty has been instrumental in achieving remarkable results in the recent exams.



NAME OF THE STAFFS	DESIGNATION	SUBJECT NAME / COURSE	NO OF STUDENTS APPEARED EXAMS	NO OF STUDENTS PASSED EXAMS	PERCENTAGE
Mr. N. Parthipan	Associate Professor	Pharmaceutical Analysis / VII SEM - B. Pharm	94	93	98.93%
Dr. R. Arvinthkumar	Assistant Professor	Pharmacy Practice / VII SEM - B. Pharm	94	94	100%
Mr. J. Dhanasekar	Assistant Professor	Industrial Pharmacy -I / VII SEM - B. Pharm	94	94	100%
Dr. M. Selvakumar	Assistant Professor	Novel Drug Delivery System/ VII SEM - B. Pharm	94	93	98.93%

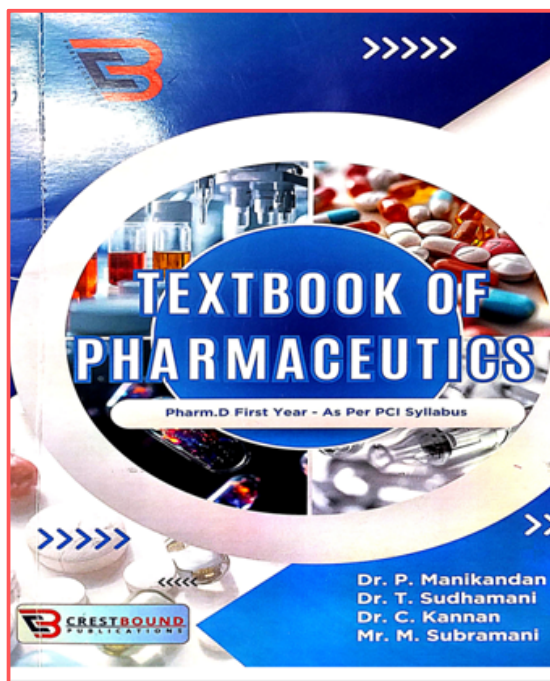
All the faculties from VPCW actively attended a Guest Lecture on **“Artificial Intelligence in Pharma: The Future of Drug Discovery and Transforming Scientific Research”** and **“3D Printing in Pharmaceutical Sciences with live demonstration of Semi-Solid Extrusion (SSE)”**, organized by Department of Pharmaceutical Chemistry on **12.12.2025** at VPCW Seminar Hall.



The session was delivered by **Dr. N. Sriram, M.Pharm., Ph.D.**, Founder & CEO, Genesis Research Labs, Hyderabad, and Professor & Principal, Usha College of Pharmacy, Andhra Pradesh. The lecture provided valuable insights into emerging technologies such as AI-assisted drug discovery and advanced pharmaceutical manufacturing techniques, enhancing academic knowledge and research orientation among participants.

- Dr. G. Muthuboopathi served as an E-Poster Evaluator at the APP 14th Annual International Convention and the 3rd Indo-Korean Conference, held on 06.12.2025 December 2025.

- Dr.T.Sudhamani published book **“Text book of Pharmaceutics”** for 1st year Pharm.D as per PCI syllabus published by Crest bound Publications, TN, ISSN no: 978-81-992195-1-9.



About the Authors

Dr. P. Manikandan is Professor & Head of the Department of Pharmaceutics at Sri Shanmugha College of Pharmacy, Palupalayam, Sankari, Salem District, affiliated with The Tamil Nadu Dr. M.G.R. Medical University. With 19 years of teaching experience, he has guided over 15 M.Pharm and 95 B.Pharm students and published around 42 research and review papers in reputed national and international journals. He has delivered numerous presentations and organized several funded-conferences and seminars. Recipient of the Bharat Gaurav Puraskar Award (KTK Foundation, New Delhi), Dr. Manikandan serves as a reviewer for leading journals and is a life member of APTI.

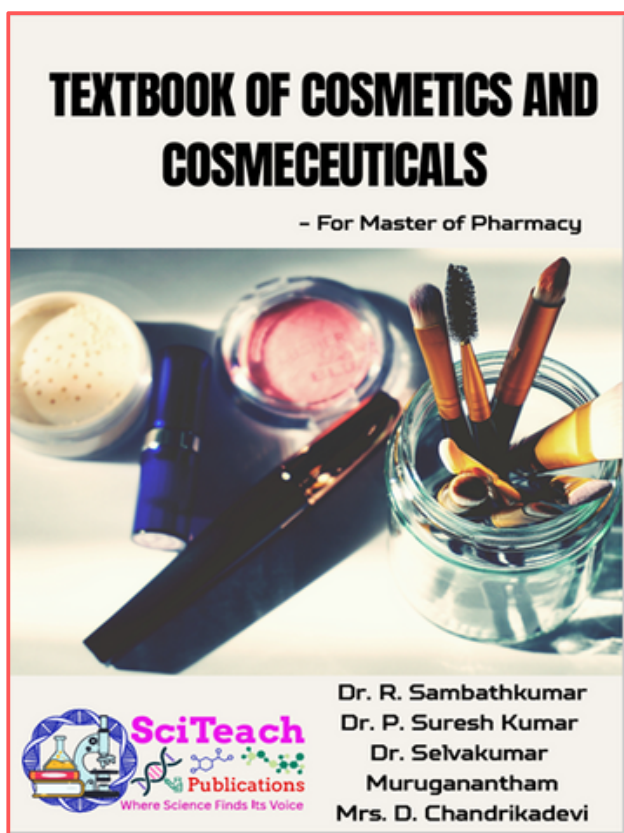
Dr. T. Sudhamani is Professor & Head of the Department of Pharmaceutics at Vivekanandha Pharmacy College for Women, Sankaragi. She obtained her B.Pharm (1999), M.Pharm (2006) and Ph.D. (2016) from The Tamil Nadu Dr. M.G.R. Medical University, Chennai. With 21 years of teaching and research experience, she has 27 publications in national and international journals (h-index 6, i10-index 5, 218 citations). She has guided 10 M.Pharm and 27 B.Pharm projects, holds 3 patents, authored 3 books and 5 book chapters. Awards include “Outstanding Academician in Pharmacy” (TNARPWA, 2023) and Scientific Research Output Awards (2024, 2025). She is a life member of PCI Tamil Nadu, APTI and ISTE.

Dr. C. Kannan, M.Pharm., Ph.D., is Associate Professor of Pharmaceutics at The Erode College of Pharmacy, with 15 years of teaching and research experience. He earned his B.Pharm, M.Pharm (2010) and Ph.D. (2021) in Pharmacy. Dr. Kannan has published over 30 papers in reputed national and international journals and authored books on pharmaceutics, natural products and emerging trends. He has guided more than 20 postgraduate and Pharm.D students, filed several patents, and is a life member of IFA, APTI, Indian Pharmacist Association and InSc. Recipient of APTI's Young Pharmacy Teacher Award (2025) and InSc Young Achiever Award (2021), he is an active speaker and innovator.

Dr. M. Subramani, M.Pharm., is an Associate Professor of Pharmaceutics at Sri Shanmugha College of Pharmacy, Sankari, Salem, with eight years of teaching and research experience. He completed his B.Pharm and M.Pharm in Pharmaceutics (2018) and is pursuing a Ph.D. at The Tamil Nadu Dr. M.G.R. Medical University. He has published over 10 papers in reputed national and international journals and authored books on pharmaceutics, natural products and emerging trends. He has guided more than seven UG and Pharm.D students, filed patents in pharmaceutical formulations, and is a life member of APTI, PCI and Indian Pharmacist Association. He has received multiple awards, including APTI Tamil Nadu's Best Oral Prize (2025), and regularly serves as a resource person at conferences and faculty programs.

ISBN-978-81-992195-1-9
9 788199 219519

- Dr. M. Selvakumar published book **“Text book of Cosmetics & Cosmeceuticals”** for 1st year M.Pharm as per PCI syllabus published by Sci Tech Publications, TN, ISSN no: 978-81-992774-6-5.



Dr. R. Sambathkumar, M.Pharm, Ph.D, Professor & Principal, The Erode College of Pharmacy, Erode. Accomplished academician and researcher with 29 years of teaching and research experience in Pharmaceutical Sciences. Recognized for significant contributions to curriculum design, pharmacy education, and healthcare research. Published 140+ research papers in reputed journals and presented at multiple national and international conferences. Awarded the Best Teacher Award (TNMGRMU) and Best Pharmacist Award (IPA).

Dr. P. Suresh Kumar is a distinguished pharmaceutical educator and researcher with over 17 years of experience in academia and pharmaceutics. Currently serving as the Principal of Sri Shanmuga College of Pharmacy, Sankari, Salem. He has guided numerous post-graduate and doctoral students, published more than 50 peer-reviewed research papers and contributed to ground-breaking patents in drug formulation and machine learning applications in healthcare. His expertise spans pharmaceutical formulation, drug delivery systems, and regulatory affairs, making him a respected voice in the field.

Dr. Selvakumar Muruganantham, Assistant Professor of Pharmaceutics at Vivekanandha Pharmacy College for Women, holds a Ph.D. from Anna University (2025) and M.Pharm/B.Pharm from Dr. MGR. Medical University. He has 3+ years of teaching and 6 years of research experience, has published 18 papers (h-index 5), co-invented 6 patents, contributed to book chapters and conferences, and guided 3 B.Pharm projects. He has received multiple awards, including Best Oral Presenter at the Scientific Research Output Award 2024, 2025. He is a life member of TNPCI and APTI.

Mrs. D. Chandrikadevi is an Associate Professor in the Department of Pharmaceutics at Mohamed Sathak AJ College of Pharmacy, Chennai. She completed her B.Pharm and M.Pharm (Industrial Pharmacy) from Annamalai University in 2006 and 2012. With 11 years of academic, research, and teaching experience, she has mentored 2 PG and 17 UG students. She has participated in over 30 webinars and 48 conferences, and actively serves as a reviewer and editorial board member for reputed national and international journals. Her expertise includes factorial design, process validation, novel dosage forms, and product development.

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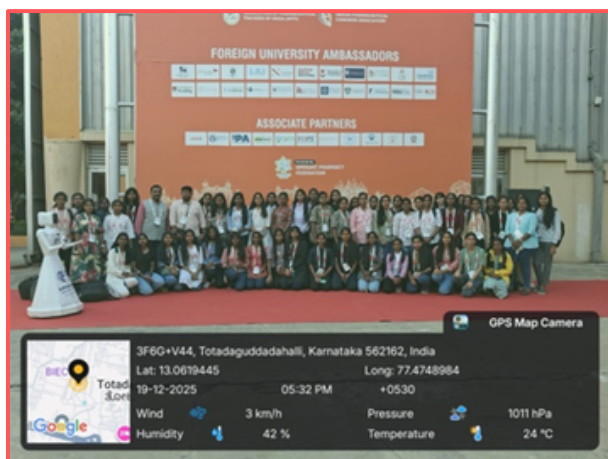
- In a National-Level Online Article Writing Competition on the theme Pharmaceutical Dosage Forms, held on 07-11-2025, the VIII Semester students secured the Consolidated Prize and received a **cash award of ₹1,000** under the guidance of Mr. J. Dhanasekar.

S – Student-Centered

- All the faculties of VPCE actively participated in the Freshers day Celebration on 10.12.2025 at Srinivasa Mahal.
- All the faculties of VPCE actively participated in the New Year celebration on 31.12.2025.



- Dr. M. Anvesh Raj, Dr. M. Selvakumar, Mr. R. Mouleeswaran, Mr. M. Navinkumar, and Ms. L. Lathamani actively participated and coordinated the B. Pharm and III-Pharm D students for the 74th IPC at Bengaluru from 19.12.2025 to 21.12.2025.



- Ms. Chandana Nagaraju presented her research work titled **“Synthesis, Characterization, and Antibacterial Evaluation of Trimethoprim-Loaded Zinc Oxide Nanoparticles for Enhanced Activity Against Drug-Resistant Escherichia coli and Biofilm-Associated UTIs”** under the guidance of Dr. M. Selvakumar at the 74th Indian Pharmaceutical Congress (IPC-2025), Bengaluru, on 19.12.2025.
- Ms. Sathiya Kovaiselvan presented her research work titled **“Formulation and In Vitro–In Vivo Evaluation of Dapoxetine HCl Nanoparticles-Loaded Capsule”** under the guidance of Dr. M. Selvakumar at the 74th Indian Pharmaceutical Congress (IPC-2025), Bengaluru, on 19.12.2025.
- Ms. Sowbagaya Lakshmi Ramesh presented her research work titled **“Metformin–Curcumin Nanopellet Capsule: Formulation and Evaluation Against Diabetes-Induced Oxidative Stress”** under the guidance of Dr. M. Selvakumar at the 74th Indian Pharmaceutical Congress (IPC-2025), Bengaluru, on 19.12.2025.

- Ms. J. Tharani presented her research work titled **“Forced degradation study on Fosfomycin Trometamol sachet by UV spectroscopy”** under the guidance of Mr. N. Parthiban at the 74th Indian Pharmaceutical Congress (IPC-2025), Bengaluru, on 20.12.2025.
- Mrs. L. Ramya Applied for the **Pudhumai Pen Scholarship Scheme** for I B.Pharm and I D. Pharm Students, and Collected the Pudhumai Pen Scheme Bags from the Salem Collector office and distributed them to the students.
- Mr. S. Prithvirajan, **Skill Development Committee** for prepared enrolment list for First year and Second year students of B.Pharm, Pharm.D and D.Pharm.
- Mr. A. Dineshkumar and Mr. R. Mouleeswaran both are actively involved and completed the 2024-2025 YRC annual report for renewal purpose of current academic year 2025-2026.
- Mr. A. Dineshkumar actively involved and performed the DME work for I D.Pharm and II D.Pharm students OCT 2025 revaluation report on 30.12.2025.
- Ms.L.Lathamani had actively organized a first Institutional Innovation Council (IIC) meeting on 08.12.2025 to address the students and motivated the students to provide their contribution in IIC programs & activities.



- All Department staff serving as the Guide for VIII Semester B.Pharm students and providing comprehensive guidance and assisting the students in preparing new research review articles.

T – Teaching /Training / Technology

- Dr. T. Sudhamani attended 6 days e-FDP on **“Modern approaches in Formulation and Drug Delivery System”** organized by Department of Pharmaceutics, Faculty of Pharmacy, Bharath Institute of Higher Education and Research, Chennai, from 18.12.2025 to 23.12.2025.
- Mr. S. Prithvirajan Motivated and guided two B.Pharm students, Ms. Nandhini and Ms. Biosha, for a one-day CEP program poster presentation and guided them in abstract preparation.

- Mr. S. Prithvirajan and Ms. N. Athmika attended a guest lecture by resource person Dr. M. Anvesh raj on **“Innovative Best Practices in Laboratory Animal Handling for Research”**, organized by the PG & Research Department of Microbiology on 16.12.2025 at Hall No. 44. The session focused on ethical guidelines, animal handling, and innovative research practices, benefiting UG students and research scholars.
- Dr. G. Muthubopathi, Ms.L.Lathamani, and Ms. N. Athmika had actively involved as an IIC - Coordinator and organized an Institutional Innovation Council (IIC) activity on Energy Conservation Day (11.12.2025).



SANKAGIRI VIVEKANANDHA
ARTS & SCIENCE COLLEGE FOR WOMEN
VEERACHIPALAYAM, SANKAGIRI

PG & RESEARCH
DEPARTMENT OF MICROBIOLOGY
Organizes

**Innovative Best Practices in
Laboratory Animal Handling for Research**

Resource Person



Dr. Moturi Anvesh Raj
Prof & HoD, Dept of Pharmacology,
VPCW

16-12-2025 03:00 PM - 04:00 PM Hall No.44

FACULTY COORDINATORS

Dr. V. Bharathi Coordinator	Dr. R. Mythili HoD	Dr. B. T. Sureshkumar Director - IQAC, VVAAS	Dr. V. Padmanabhan Principal, VVAAS
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SANKAGIRI VIVEKANANDHA
ARTS & SCIENCE COLLEGE FOR WOMEN
VEERACHIPALAYAM, SANKAGIRI

PG & RESEARCH
DEPARTMENT OF MICROBIOLOGY
Organizes

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- Dr. M. Anvesh Raj served as the resource person and gave a guest lecture on **“Innovative Best Practices in Laboratory Animal Handling for Research”**, organized by the PG & Research Department of Microbiology on 16.12.2025 at Hall No. 44. The session focused on ethical guidelines, animal handling, and innovative research practices, benefiting UG students and research scholars.

- B. Pharm Final year students successfully completed their Project Proposal Presentation and submitted their reports.

E – Education / Extension

- Dr. K. Rajendran explained the purpose and installation method of the Kaaval Uthavi app to all class incharges, facilitating its installation by B.Pharm, PharmD, and D.Pharm students on 24.12.2025.



- Mr. M. Navinkumar and Mr. S. Prithvirajan created awareness program for women about safety with help of **KAVALUTHYAVI** awareness app on 24.12.2025 by Tamil Nadu Police helps students in emergencies by sending instant alerts to the control room, facilitating direct calls (112/100/101), sharing live location, and registering complaints, while also offering e-services like police/vehicle verification and lost document reports, integrating safety features for women and students with location tracking and hazard alerts.



- Dr. R. Thirumurthy actively involved in TNPPCA merit list document verification work for the admitted students during the academic year 2025-2026 on 29.12.2025

- Dr V Senthil principal and Dr. M. Anvesh Raj served as a Poster Evaluator at the 74th Indian Pharmaceutical Congress (IPC) 2025, held from 19–21 December 2025 at Bengaluru. He evaluated research posters and provided expert academic feedback, contributing to the quality assessment and promotion of research excellence at the national level.

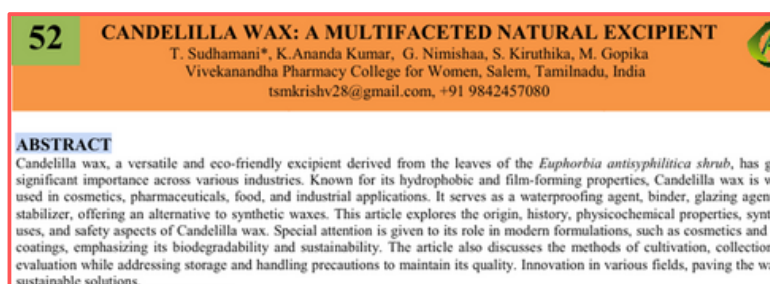


R – Research / Responsibility

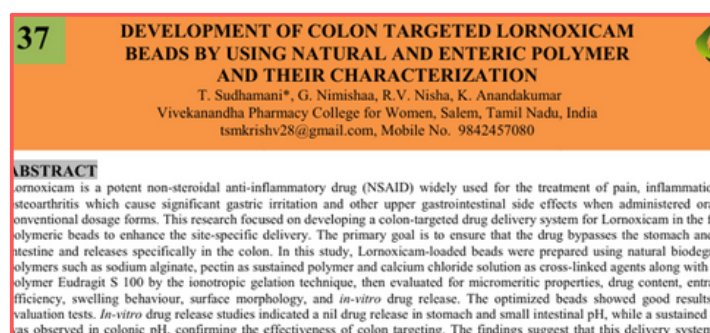
- Dr. K. Rajendran and Dr. K. Krishnaveni have been actively involved in the criteria verification and arranging meetings with all HODs and respective working faculty criteria wise from 1 to 7 and after verification of all documents, suggestions given to correct or modify.

Dr. T. Sudhamani published book 2 chapters :

- Dr.T. Sudhamani, K. Ananda kumar, G. Nimishaa, S. Kiruthika, M.Gopika. Candelilla wax: a multifaceted natural excipient, details of excipients, Volume-II, Academic Decipher Press, Mumbai, ISBN: 978-81-987667-5-5, Chapter 52, 2025, 455-463.



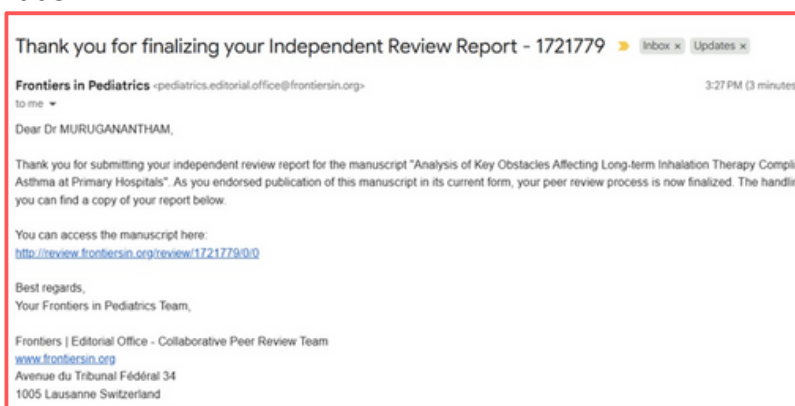
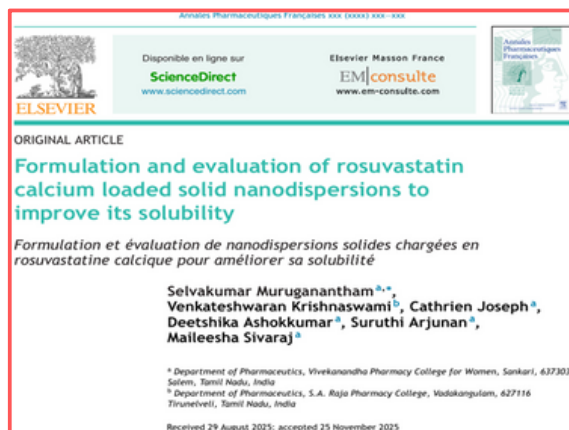
- Dr.T. Sudhamani, G. Nimishaa, R.V. Nisha, K. Anandakumar. Development of Colon Targeted Lornoxicam Beads By Using Natural And Enteric Polymer And Their Characterization, Academic Decipher Press, Mumbai, Research in the Academics, Volume-II, ISBN: 978-81-994213-4-9, 2025, Chapter 37.



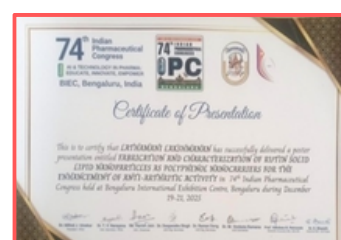
- Dr. T. Sudhamani guided 3 students to participate in academic decipher book chapter.
- Dr. T.Sudhamani involved in the collection of details of B.Pharm 2019-2023 batch & coordinate certificate distribution works for upcoming Convocation function to be held on 9.1.2026.

Dr. M. Selvakumar published research article in Elsevier with Impact Factor- 2.1.

- Dr. M.Selvakumar M, Venkateshwaran K, Cathrien J, Deetshika A, Suruthi A, Mailesha S. (2025). Formulation and evaluation of rosuvastatin calcium-loaded solid nanodispersions to improve its solubility. *Annales Pharmaceutiques Françaises*. Advance online publication; S0003-4509(25)00182-8. <https://doi.org/10.1016/j.pharma.2025.11.005>



- Dr. M. Selvakumar published as one of the co-inventors of an Indian patent titled "Development of Liposomal Formulations for Enhanced Bioavailability of Poorly Soluble Anticancer Drugs like Paclitaxel", published as Patent Application No. 202541104099 A, (28 November 2025).
- Dr. M. Selvakumar actively involved in the review of manuscript for Frontiers in Pediatrics (Impact Factor: 2.0, Publisher: Frontiers) and successfully completed the assigned work as a reviewer for this journal on 13.12.2025.
- Dr. M. Selvakumar actively involved in the review of manuscript for BioNanoScience (Impact Factor: 3.2, Publisher: Springer Nature) and successfully completed the assigned work as a reviewer for this journal on 13.12.2025.
- Ms. L. Lathamani had actively participated in the 3 days 74th Indian Pharmaceutical Congress 2025 organized by APTI from 19.12.2025 – 22.12.2025 and done a Poster presentation in the title "Fabrication and Characterization of Rutin Solid Lipid Nanoparticles as Polyphenol Nanocarriers for the enhancement of Anti-Arthritic activity" under Pharmaceutical Technology category.



- Ms. L. Lathamani & Mr. J. Dhanasekar had actively contributed her work entitled: “Gut microbiome health using corn silk: A natural approach to restoring microbial balance” for APTI Newsletter, September – December issue 2025 under Womens forum theme of Gut microbiome: Attaining a healthy balance and it was published with ISSN: 3107-5045.



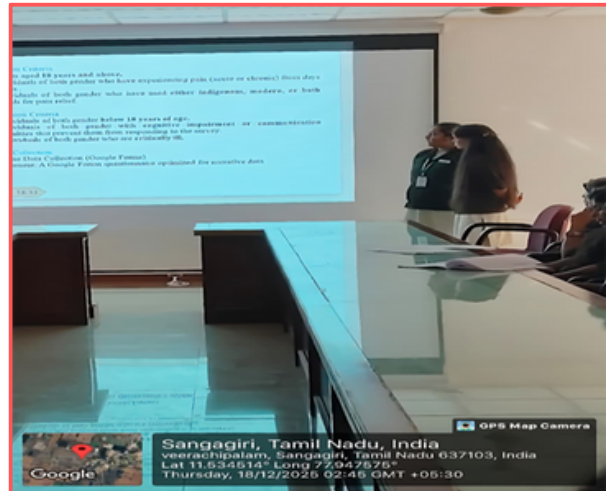
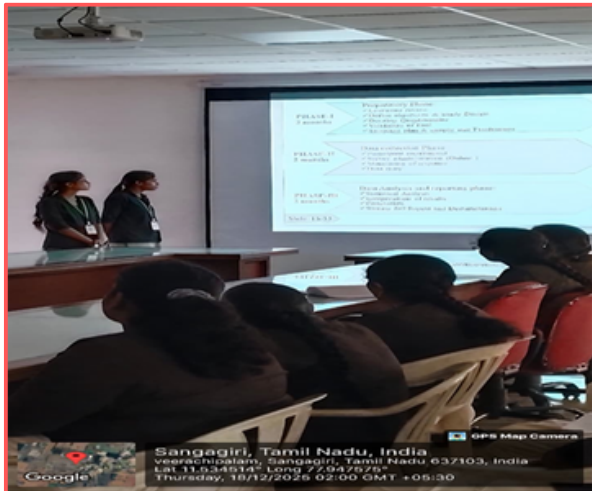
- Mr.R.Mouleswaran actively participated and presented the oral presentation at 3 days 74th Indian Pharmaceutical Congress 2025 organized by APTI from 19.12.2025 – 22.12.2025 at Bengaluru.
- Dr. R. Thirumurthy and Mrs. L. Ramya published a research paper titled “Comparative In Vitro Antidiabetic Evaluation of Ethanolic and Chloroform Albizia amara Leaf Extracts.” International Journal of Allied Medical Sciences and Clinical Research, Vol. 13 No. 4 (2025): 2025 Volume -13 - Issue 4 (08 December 2025).
- Dr. G. Muthuboopathi published Indian Design Patent titled Electrochemical Impedance Spectroscopy (Design No.: 478612-001).
- Mr. M. Navinkumar published a research article titled on Evaluation of (E)-1 Phenyl-N-(2-phenyl)-1,3-Benzoxazol-6-yl) Methanimine Derivatives for InVitro Inhibitor of Sirt2 Enzyme in Parkinson’s Disease in the journal of Asian Journal of Green Chemistry.

B. PHARM PROJECT PROPOSALS – PRESENTATION AND SUBMISSION DEPARTMENT OF PHARMACEUTICS





S. NO	STUDENT NAME	GUIDE NAME	TITLE OF THE PROJECT
01	M.Dhanusha C.Dhivyadharani S. Sumithra S. Susika K. Arulmolzhi	Dr.V.Senthil	Formulation and evaluation of lemongrass oil nanoemulsion embeded on hydrogel
02	M.Jayapriya S. Kavya P. Manipriya N.H. Mohana	Dr.T.Sudhamani	Formulation and evaluation of naproxen microballoon for floating pulsatile ddrug delivery system for rheumatoid arthritis
03	G. Gopika E. Indhumathi K. Iswarya K. Jananipriya	Dr.M. Selvakumar	Pormulation and evaluation of drotaverine-loaded PLGA nanoparticle incorporated into fast disintegrating oral films for the enhanced management of smooth muscle spasm
04	T. Atchaya I.Irfanamol Khan V.Maha S. Roopasri K. Roshini	Mr.S.Nandhakumaran	Formulation and evaluation of mesalamine loaded nanostructure lipid carrier based enema for rectal delivery In ulcerative colitis
05	B. Gayathri R. Kavya L.Pavithra T. Yukthi	Ms.L. Lathamani	Rectal delivery of curcumin quercetin loaded polymeric nanoparticles for targeted therapy of colorectal cancer
06	N. Yuvasri N. Priya S. Divyadharani V.Namitha P. Ashwini	Mr.J. Dhanasekar	Development and characterization of nitrofurantoin loaded polymeric nanosuspension: a comparative evaluation with marketed formulation



S. NO	NAME OF THE STUDENTS	NAME OF THE GUIDE	TITLE OF THE STUDY
01	M. Calix Mercia G. Kiruthika K.J. Preetha A.Sahaya Jaini Prasanna	Dr. K. Krishnaveni	A Comparative Study on Menstrual Hygiene Practices and Awareness among Rural, Urban and Tribal Women in Salem District of Tamil Nadu
02	S. Dhanushiya B.S. Hema Mithra G. Malini R. Saranya	Dr. C. Arokia Rani	Assessment of Knowledge, Perception and Practices towards Oral Hygiene among Adults
03	M. Janani Shree C. Renuga S. Rithika G. Sanmathi	Dr. R. Arvinthkumar	Assessment of Healthcare Professional Awareness and Attitude towards the Future Integration of Artificial Intelligence in Clinical Practice
04	B. Nisha S. Sandhya V. Sasi S. Zeenath Syed	Dr. P. Dineshkumar	A Study on the Impact of a Pharmacist Led Awareness session on Knowledge, Attitude and Practice regarding Over the Counter Drugs

CLINICAL UPDATES

Zycubo® – Drug & Disease Info:

Disease – Menkes disease:

- A rare X-linked genetic disorder caused by defective copper transport (ATP7A mutation). Leads to copper deficiency affecting the brain, connective tissue, and blood vessels.

Clinical features:

- Developmental delay, seizures, hypotonia, failure to thrive, hypothermia, brittle/kinky hair (pili torti).
- Mortality (untreated):
- ~50–60% die by 3 years of age
- Up to 90% die by 10 years
- Early diagnosis and treatment are crucial for survival.

Indication:

- Treatment of Menkes disease in pediatric patients
- MOA: Supplies bioavailable copper and bypasses defective intestinal absorption

Dose (summary):

- <1 year: 1.45 mg twice daily
- 1–17 years: 1.45 mg once daily (SC)

Clinical benefit:

- Early initiation significantly reduces mortality and improves long-term survival

Common ADRs:

- Seizures, infections, fever, vomiting, anemia, injection-site reactions

Monitoring:

- Serum copper levels, liver and renal function



Advanced Endoscopic Techniques (GI Cancers)

 **Published Year**

- 2025 (clinical review & updated trials)

Techniques

- Narrow-Band Imaging (NBI)
- Flexible Spectral Imaging Color Enhancement (FICE)
- Confocal Laser Endomicroscopy (CLE)

How It Works

- NBI: Uses special blue-green light → makes blood vessels & abnormal mucosa more visible
- FICE: Uses digital color processing → enhances contrast of suspicious lesions
- CLE: Uses laser + contrast dye → shows live microscopic images of GI tissue (like real-time biopsy)

Why It Was Discovered

- *Traditional white-light endoscopy misses early cancer lesions.
- *Early GI cancers look flat and similar to normal mucosa.
- *To enable early detection, accurate diagnosis, and targeted biopsy.
- *To reduce unnecessary biopsies and improve cancer survival.

Interactions

- *Used along with standard endoscopy & biopsy
- *Can reduce unnecessary biopsies
- No drug-drug interactions (device-based technique)

Adverse Effects / Safety

- Generally safe
- Same minimal risks as routine endoscopy:
- Mild discomfort
- Rare bleeding or perforation
- CLE contrast agents may rarely cause mild allergy



Bemarituzumab

- Bemarituzumab is used to treat gastric (stomach) cancer patients whose tumor cells over-express FGFR2b.
- It is a targeted therapy, meaning it attacks cancer cells specifically and improves treatment outcomes when combined with chemotherapy.

Indications / Uses

- FGFR2b-positive gastric cancer
- FGFR2b-positive gastroesophageal junction (GEJ) adenocarcinoma

Mechanism of Action (MOA)

- Bemarituzumab is a humanized monoclonal antibody
- It binds to FGFR2b receptors on cancer cells
- Blocks fibroblast growth factor (FGF) signaling
- Stops cancer cell growth, survival, and angiogenesis
- May activate immune-mediated killing (ADCC) of tumor cell

Dose & Administration

- Given as intravenous (IV) infusion
- Used in combination with chemotherapy
- Dose and schedule as per oncology protocol

Side Effects

- Eye problems (dry eyes, blurred vision, keratitis)
- Mouth ulcers (stomatitis)
- Nausea & vomiting
- Diarrhea
- Fatigue
- Decreased appetite
- Infusion-related reactions



VIVEKANANDHA PHARMACY COLLEGE FOR WOMEN

VEERACHIPALAIYAM, SANKARI, SALEM - DT
TAMILNADU - 637 303



VISION

- To educate, train, and develop professionally competent pharmacists equipped to meet global healthcare challenges.

MISSION

- To offer need-based programs with dynamic and effective implementation.
- To swiftly adapt to changes in the pharmaceutical industry and align resources accordingly.
- To serve as a centre of academic excellence delivering world-class pharmacy education.
- To engage in impactful research focused on discovering life-saving drugs, contributing to the global goal of "Health for All."

COURSES OFFERED

B.PHARM (4 YEARS)

D.PHARM (2 YEARS)

B.PHARM (LATERAL ENTRY) 3 YEARS

DOCTOR OF PHARMACY (PHARM. D) 6 YEARS

**VIVEKANANDHA PHARMACY COLLEGE FOR WOMEN (VPCW),
SANKARI, HAS RECENTLY BECOME A CO-EDUCATIONAL
INSTITUTION.**

Formerly exclusive to women, the college now welcomes both male and female students for all pharmacy programs. This change aims to promote inclusivity, expand learning opportunities, and uphold the institution's excellence in pharmaceutical education and research.

VIVEKANANDHA EDUCATIONAL INSTITUTIONS



"Vidhya Rathna"

Prof. Dr. M. KARUNANITHI, B.Pharm., M.S., Ph.D., D.Litt.,
Chairman & Secretary

TIRUCHENGODE CAMPUS

- ★ SWAMY VIVEKANANDHA MEDICAL COLLEGE HOSPITAL AND RESEARCH INSTITUTE
- ★ VIVEKANANDHA DENTAL COLLEGE FOR WOMEN
- ★ SWAMY VIVEKANANDHA COLLEGE OF PHARMACY
- ★ VIVEKANANDHA COLLEGE OF NURSING
- ★ VIVEKANANDHA SCHOOL OF ANM
- ★ SWAMY VIVEKANANDHA PHYSIOTHERAPY COLLEGE
- ★ VIVEKANANDHA ALLIED HEALTH SCIENCE COLLEGE (Co-Ed)
- ★ KRISHNA INSTITUTE OF OPTOMETRY AND RESEARCH
- ★ VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN (AUTONOMOUS)
- ★ VIVEKANANDHA COLLEGE OF TECHNOLOGY FOR WOMEN
- ★ VIVEKANANDHA INSTITUTE OF INFORMATION AND MANAGEMENT STUDIES
- ★ VIVEKANANDHA COLLEGE OF ARTS AND SCIENCES FOR WOMEN (AUTONOMOUS)
- ★ VIVEKANANDHA COLLEGE FOR WOMEN
- ★ VIVEKANANDHA COLLEGE OF EDUCATION FOR WOMEN
- ★ KRISHNA COLLEGE OF EDUCATION FOR WOMEN
- ★ KRISHNASHREE COLLEGE OF EDUCATION FOR WOMEN
- ★ VIVEKANANDHA VIDHYA BHAVAN MATRIC HIGHER SECONDARY SCHOOL
- ★ VIVEKANANDHA MEDICAL CARE HOSPITAL (VMCH)

SANKAGIRI CAMPUS

- ★ SWAMY VIVEKANANDHA NATUROPATHY AND YOGA MEDICAL COLLEGE (Co-Ed)
- ★ VIVEKANANDHA PHARMACY COLLEGE FOR WOMEN
- ★ VIVEKANANDHA NURSING COLLEGE FOR WOMEN
- ★ VIVEKANANDHA ANM SCHOOL
- ★ VIVEKANANDHA ARTS AND SCIENCE COLLEGE FOR WOMEN
- ★ RABINDHARANATH TAGORE COLLEGE OF EDUCATION FOR WOMEN
- ★ VISWABHARATHI COLLEGE OF EDUCATION FOR WOMEN

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