

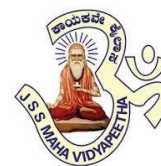


JSS Mahavidyapeetha

# JSS Academy of Technical Education

Dr. Vishnuvardhan Road, Srinivasapura post Bangalore 560060


www. Jssateb.ac.in



## FACULTY PROFILE

Department: Chemistry

### 1. Personal Details

NAME	Dr. Kathyayani D	
DEPARTMENT	Chemistry	
DESIGNATION	Assistant Professor	
PHONE	+91 6360041236	
EMAIL ID	<a href="mailto:kathyayanid@jssateb.ac.in">kathyayanid@jssateb.ac.in</a>	
Date of Joining (JSSATEB)	17-02-2010	

### 2. Experience

Total Experience in Years	Teaching: 14 Years	Industry: Nil	Research: 8 Years
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### 3. Qualifications

COURSES	SPECIALIZATION	Year of Award	INSTITUTION	UNIVERSITY
B.E. / B.Sc.,	PCM	2007	JSS College for Womens , Mysuru-09	University of Mysore
M.E. / M.Tech. / M.Sc.	General Chemistry	2009	Yuvaraja College Mysore-05	University of Mysore
Ph.D	Synthetic Organic Chemistry	2023	JSSATEB	VTU University
Post Doc.				

### 4. Research & Publications

Papers Published in Web of Science indexed Journals	International: 09	National: 00
Papers Published in SCOPUS indexed Journals	International: 00	National: 00
Papers Published in other Journals	International: 00	National: 00
Papers Presented in Conferences / Symposium	International: 07	National: 00
Books / Book chapters Published	Name of the book: Publisher: Year of Publication:	

### 5. Research Guidance

PhD Guide? Give field & University		
PhDs / Projects Guided		Projects at Master's Level: Nil Projects at Bachelor's Level: Nil

## 6. Grants

### i. Funds Received (Projects): Nil

### ii. Patents: Nil

### iii. Consultancy: Nil

## 7. Awards Received:

**Awarded a silver medal** under the category "Healthy Society" for the project titled "Design of innovative wound healing materials from synthetic polypeptides with collagen" InnoWings 2023 exhibition held on June 15-16, 2023, Centrum Innowacji Naukowo-Edukacyjnych ul. Agatowa 19/57, 20-571 Lublin (Poland)

**Awarded a silver medal** under the category "Healthy Society" for the project titled "Insights into the physicochemical characteristics and miscibility of chitosan/polypeptide blends: Promising material for wound healing in Sprague-Dawley rats" InnoWings 2024 exhibition held on June 6-7, 2024, Centrum Innowacji Naukowo-Edukacyjnych ul. Agatowa 19/57, 20-571 Lublin (Poland)

## 8. Publications

### i. International Journals

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
1	Insights into the Physicochemical Characteristics and Miscibility of Chitosan/Polypeptide Blends: Promising Material for Wound Healing in Sprague-Dawley Rats.	<b>Kathyayani, D.</b> , Mahesh, B., Sionkowska, A., Manjula, S. N., Veeranna, S., & Vicini, S.	<i>Biomaterials science &amp; engineering</i>	2024 Sep 9;10(9):5807-5821. doi: 10.1021/acsbiomaterials.4c01123	Both	5.61	ACS
2	Investigation of miscibility and physicochemical properties of synthetic polypeptide with collagen blends and their wound healing characteristics.	<b>Kathyayani, D.</b> , Mahesh, B., Gowda, D. C., Sionkowska, A., & Veeranna, S.	Journal of Biological Macromolecules	Vol: 246, Page:125704. Year:2023 <a href="https://doi.org/10.1016/j.ijbiomac.2023.125704">https://doi.org/10.1016/j.ijbiomac.2023.125704</a>	Both	8.2	Elsevier
3	Interaction between synthetic elastin-like polypeptide and collagen: Investigation of miscibility and physicochemical properties.	Mahesh, B., Lokesh, H. R., <b>Kathyayani, D.</b> , Sionkowska, A., Gowda, D. C., & Adamiak, K. (2023).	Polymer	Vol: 272, Page: 125833. <a href="https://doi.org/10.1016/j.polymer.2023.125833">https://doi.org/10.1016/j.polymer.2023.125833</a> .	Both	4.6	Elsevier
4	Synthesis and structural characterization of elastin-based polypentapeptide/hydroxypropylmethylcellulose blend films:	<b>D.Kathyayani</b> B.Mahesh N.A.Chamaraja B.S.Madhukar	Colloids and Surfaces A: Physicoch	Vol:649 Year: 2022 <a href="https://doi.org/10.1016/j.colsurfa.2022.129503">https://doi.org/10.1016/j.colsurfa.2022.129503</a>	Both	5.518	Elsevier

	Assessment of miscibility, thermal stability and surface characteristics	D. Channe Gowda	Chemical and Engineering Aspects				
5	Miscibility and thermal stability of synthetic glutamic acid comprising polypeptide with polyvinyl alcohol: Fabrication of nanofibrous electrospun membranes	B. Mahesh, <b>Kathyayani D.</b> D Channe Gowda Alina Sionkowska Seeram Ramakrishna	Materials Chemistry and Physics	Vol. 281, <a href="https://doi.org/10.1016/j.matchemphys.2022.125847">https://doi.org/10.1016/j.matchemphys.2022.125847</a>	Both	4.094	Elsevier
6	Insights into the miscibility characteristics of plastic-mimetic polypeptide with hydroxypropylmethylcellulose: Investigation of thermal degradability and intermolecular interactions	B. Mahesh, <b>D. Kathyayani</b> , H.R. Lokesh, D. Channe Gowda, Alina Sionkowska	Colloids and Surfaces B: Biointerfaces	Vol. 205, May, 2021, <a href="https://doi.org/10.1016/j.colsurfb.2021.111877">https://doi.org/10.1016/j.colsurfb.2021.111877</a>	Both	4.389	Elsevier
7	Blends of synthetic plastic-derived polypeptide with Hydroxypropylmethylcellulose and polyvinyl alcohol: unraveling the specific interaction parameters, morphology and thermal stability of the polymers couple	B. Mahesh, <b>D. Kathyayani</b> , D. Channe Gowda, K. Mrutunjaya	Journal of Polymer Research	27,278(2020) <a href="https://doi.org/10.1007/s10965-020-02191-5">https://doi.org/10.1007/s10965-020-02191-5</a>	Both	2.426	Springer
8	Miscibility studies of plastic-mimetic polypeptide with hydroxypropylmethylcellulose blends and generation of non-woven fabrics	B. Mahesh, <b>D. Kathyayani</b> , G.S. Nanjundaswamy, D.C. Gowda, R. Sridhar,	Carbohydrate Polymers	212,129-141, (2019) <a href="http://dx.doi.org/10.1016/j.carbpol.2019.02.042">http://dx.doi.org/10.1016/j.carbpol.2019.02.042</a>	Both	7.182	Elsevier
9	Impact of Blend Proportion on the Miscibility and Thermal Characteristics of Synthetic Plastic-Derived Polypeptide with Commercially Available Polyvinyl Alcohol	B. Mahesh, G. S. Nanjundaswamy, <b>D. Kathyayani</b> , D. Channe Gowda & Siddaramaiah	Journal of Polymers and the Environment	27,2267–2280(2019) <a href="https://doi.org/10.1007/s10924-019-01511-1">https://doi.org/10.1007/s10924-019-01511-1</a>	Both	2.765	Springer

## ii. National Journals: Nil

## iii. Conferences

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus	Impact Factor	Publisher
1	Exploration of miscibility and physicochemical properties between plastic-like polypeptide and Collagen	<b>Kathyayani D.</b> , Mahesh B and Channe Gowda D.	2 <sup>nd</sup> International Conference on Advanced Materials for Health, Energy and Environment.	2023	-	-	JSS Science and Technology University, Mysuru
2	Investigation of miscibility studies of synthetic polypeptide with collagen and its physicochemical properties	<b>Kathyayani D.</b> , Mahesh B and Channe Gowda D.	24 <sup>th</sup> ISTE Karnataka state level faculty convention & 32 <sup>nd</sup> Dr.L.S.Chandrakant memorial lecture series	2022	-	-	JSS Academy of technical education, Bengaluru.

3	Quantitative Analysis of Intermolecular Interactions of PLPs with PVA Blends	<b>Kathyayani D,</b> Mahesh B, and Channe Gowda, D	<i>Second International conference on Material science and Technology</i>	2, 216-217, (2020)	-	-	ICMAT, Dept of PS&T, JSS S&T University, Mysuru-proceedings.
4	Synthesis and Miscibility Characteristics of Peptide-based Polymer Blends with Commercial Available Polymer	Rajeshwari, P.R. <b>Kathyayani, D.</b> Channe Gowda, D and Mahesh B	<i>International conference on Advances in Materials Research (ICMAR-2019)</i>	(2019)	-	-	M S Ramaiah University of Applied sciences, Bengaluru-proceedings
5	Plastic-derived polypentapeptides: Synthesis and investigation of physicochemical characteristics of miscible blends in solution phase method.	<b>Kathyayani D,</b> Nanjundaswamy GS, B. Mahesh and Channe Gowda D	3rd international conference on Recent advances in material chemistry	106 (2019)	-	-	SRM University, Chennai-proceedings
6	Study on the miscibility characteristics of synthetic polypeptide blends with a commercially available polymer for biomedical applications	B. Mahesh, Nanjundaswamy GS, <b>Kathyayani D,</b> Channe Gowda D and Siddaramaiah	One day International Symposium on "Advanced Materials" (ISAM-2017) Dept of Chemistry, JSS Science and Technology University, Mysore	8, 2017	-	-	Dept of Chemistry, JSS Science and Technology University, Mysuru-proceedings
7	Miscibility study on synthetic elastin based polypeptide with a commercially available polymer	B. Mahesh , G.S. Nanjunda swamy, <b>Kathyayani. D</b> and Channe Gowda. D	Advanced Polymers for Science & Technology-2016, October 24 – 26, 2016, Department of Chemistry, School of Advanced Sciences VIT University, Vellore, INDIA	5, 2016			Department of Chemistry, School of Advanced Sciences VIT University, Vellore, INDIA-proceedings

#### iv. Workshops /Conferences Attended

Sl. No.	Name of the workshop / Conference	Organiser	Date
1	Recent Advances in Applied Sciences	SJBIT, Bengaluru	14-18 <sup>th</sup> Nov 2022
2	The role of advanced materials & nanotechnology in present scenario	Vemana Institute Of Technology, Bengaluru	22-26 <sup>th</sup> June 2020
3	Insights on writing research proposals and funding opportunities	ST Joseph Engineering College, Mangaluru	20-24 <sup>th</sup> July 2020
4	Materials and Medicinal Chemistry-2020 (MMC)	DBIT, Bengaluru	10-15 <sup>th</sup> August 2020
5	Capacity building for women managers in higher education.	SJCE,Mysuru.- 570 006, Karnataka.	4 <sup>th</sup> – 8 <sup>th</sup> June 2018
6	Advanced Analytical Techniques for Polymer Characterization	SJCE,Mysuru.	29 <sup>th</sup> January 2018
7	Research Methodology	Vijnana Bhavana, KSTA, DST, Bengaluru.	17 <sup>th</sup> & 18 <sup>th</sup> July 2017
8	Workshop on intellectual property rights and patents	JSSATEB and BITES	8 <sup>th</sup> June 2017
9	Recent advances in the chemistry of materials for engineering applications	BMSCE, Bengaluru.	11 <sup>th</sup> -15 <sup>th</sup> July 2016

10	Plagiarism program	SJBIT, Bengaluru.	25 <sup>th</sup> July 2015
11	Effective teaching skills and instructional strategies for college teachers.	Christ University, Bengaluru.	18-21 July 2012
12	One day workshop on "Recent advances in electrochemical and surface science & engg	BNM IT, Bangalore	26-08-2010

#### Workshops / Conference (Organised):

I) Organized **Student Development program** in association with Centre of Excellence, GTTC, GOK, on "Skill and Upskilling" for II semester students of ECE, ME, R&A, and EIE streams on 24<sup>th</sup> June 2022 and an industrial visit from 27<sup>th</sup> June to 6<sup>th</sup> July 2022.

II) Organised "National Science Week -2023" Celebration from 21.02.2023 to 03.03.2023 and expert talk by Shri Hemanth Kumar Reddy N, Group Director, Space Navigation Group, URSC/ISRO on 03.03.2023

III) Organised "National Science Week -2024" Celebration from 27.03.2024 to 06.04.2024 and expert talk by Mr. Rajeev Deekshit, CMD, Pyro eco-green technologies PVT Ltd, Bengaluru on 06.04.2023

**Conference Attended (those sponsored by AICTE / ISTE/IETE/TEQIP or any other sponsoring body): Nil**

#### 9. Details of NPTEL / COURSERA courses completed

Sl. No.	Name of the subject	Organised by	Date of completion / Award	Grade / Marks
1	Nanotechnology and Nanosensors, Part 1	Technion - Israel Institute of Technology	17 <sup>th</sup> December 2021	95
2	ARPIT 2020: Online Refresher Course in Chemistry for Higher Education	Swayam	1 <sup>st</sup> December 2020	70
3	Chemistry	Coursera, University of Kentucky	9 <sup>th</sup> November 2020	100
4	Chemicals and Health	Coursera, Johns Hopkins University	22 <sup>nd</sup> October 2020	100
5	Metals in Biology	Swayam	September 2019	83

#### 10. Membership of Professional Bodies:

1. Materials Today
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#### 11.

Publon link : <https://publons.com/researcher/4574638/kathyayani-devappa/>  
 Researcher id : <http://www.researcherid.com/rid/AAT-9671-2021>  
 ORCID : <http://www.orcid.org/0000-0001-6744-742X>  
 Google scholar link : <http://scholar.google.co.in/citations?user=H0rxm-IAAAJ>  
 Vidwan id : 101754  
 AICTE Faculty id : 1-475902828

Kathyayani D  
 Assistant Professor  
 Department of Chemistry  
 JSS Academy of Technical Education  
 Bengaluru