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GM UNIVERSITY

P. B. Road, Davanagere – 577 006 KARNATAKA | INDIA

GMU - Faculty & Staff Profile Templet



Contact

Email-
akashpatel@gmu.ac.in

Phone-8660137599

Websites

Vidwan-ID : 345629
LinkedIn

Mr. Akash Patel M P

Assistant Professor in BT

Faculty

Faculty of Engineering and Technology

School / Program

B.Tech. in Biotechnology

Faculty Introduction

Mr. Akash Patel M P is an Assistant Professor in the Department of Biotechnology at GM University. His research interests include Cancer Biology, Biodegradable Material Development, and Biosensors, with notable contributions through publications, patents, and workshops. A Gold Medalist in M.Sc. Biotechnology, he has presented award-winning research at international conferences. With over three years of teaching experience, he is actively involved in student development and institutional initiatives. He also serves as the Deputy Director of the International Office, fostering global collaborations and academic exchange programs at the university.

Qualifications

Ph.D. (Specialisation)

Pursuing- Davangere University, Davangere, Karnataka

M.Sc (Biotechnology)

Davanagere University – Davanagere, Karnataka,577002

B.Sc (Chemistry,Botany,Biotechnology)

Davanagere University, Government Science College ,Chitradurga,577501

Experience

Teaching

- 3 years of teaching experience in GMIT and GMU, Davangere

Industry

Nil



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Research

- Cancer Biology

Training Program Attended

- FDP on "Bibliometric Analysis, Systematic Literature Review and Meta Analysis" organized by Amity Business School, Amity University Haryana, Gurugram from May 08-12, 2023.
- Workshop on 'Managing Research Literature using Mendeley' organized by Amity University Madhya Pradesh and Elsevier on 5th Feb, 2022.

Research Interest

- Cancer Biology
- Biodegradable Material Development
- Diagnostics and Biosensors
- Agricultural Biotechnology

Awards & Achievements

- Gold medal in M.Sc., Biotechnology.
- Won **Second Prize** in the poster presentation for paper titled "*In-vitro and In-vivo Analysis of Anticancer Activity of Triterpenes from Bark of Crataeva nurvala Buch-Ham*" at the One-Day International Conference on 'Challenges and Opportunities in Bioproducts Development', **organized by the** Department of Biochemistry, Biotechnology, and Bioinformatics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, on 7th February 2024.

Publication / Patents

Ph.D. Dissertation: *In-vitro* and *in-vivo* analysis of anticancer activity of triterpenes from bark of *Crataeva nurvala* Buch-Hum

Publications:

- Computational studies applied to flavonoids of garcinia morella against Parkinson's diseases-Eur. Chem. Bull. 2023, 12 (S3), 5559 – 5569
- Green synthesis and characterization of Zirconium Oxide with antimicrobial activities-IOP Conf. Series: Materials Science and Engineering 1300 (2024) 012036



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- Non-invasive Prenatal Screening (NIPS) in Clinical Practice-Noninvasive Prenatal Detection of Fetal Sex and RhD Blood Type- Springer Nature Singapore Pte Ltd. 2024

Patents

- NMDA receptors antagonist from natural sources for Parkinson disease- 202341054457
- IOT based smart entrance monitoring system for covid-19 suspect detection- 202341054457
- An image processing device based on machine learning for plant disease identification- 403229001
- Eco-Friendly Copper Nanoparticles Mosquito Repellents- 202441101021
- Fabric from Waste of Areca Catechu Folium and Aloe Vera- 202441100127

Administrative Responsibilities

Department Level: Website & Blog Coordinator , NCC Coordinator, Placement Coordinator , Students & Faculty achievements Coordinator

University Level:

Assistant Director, International office GM University .

Workshops / FDPs / Seminars Attended

- Participated in AICTE Sponsored FDP on Vibrant Advocacy for Advancement and Nurturing of Indian Languages (VAANI) on **Roots to Recipes: Tech-Driven Agri practices in Kannada language** at GM Institute of technology from 20/08/2025 to 22/08/2025.
- **Leadership Training program on 17th May 2025**, enhancing skills in academic leadership and institutional development.
- **Molecular Biology Tools and Techniques** on 14th September 2024

Workshops / FDPs / Seminars Organized

- One day State Level Technical Symposium Jaivik- 23 on “Emerging Trends in Biotechnology” (29th December, 2023)
- HiMedia Hands-on workshop on “Molecular Biology Lab Techniques” (22nd and 23rd May, 2025)

Projects Guided

- **UG Projects**
- Extraction Of Natural Dye From *Areca catechu*.



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- characterization and value-added textile development from *areca catechu* folium and aloe vera.
- *Syntesis*, characterization of copper nanoparticle from orange peels and its application as mosquito repellent.
- Synthesis of nanocellulose from biomass by green pathway.
- Harnessing blossom pigments: sustainable colorant innovation for food industry.
- Studies on the extraction of promising organic pigments.
- Processing and characterization of catechu folium areca for yarn production.
Preparation of value added products from Banana Pulp
Phytochemical analysis of Arecoline and cream formation from *Areca catechu*.

Any Other Contributions

- Actively involved in organizing committee of various University events (Mallika, Graduation Day)