



**SAPTHAGIRI COLLEGE OF ENGINEERING**  
14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore-560057, Karnataka, India  
**DEPARTMENT OF BIOTECHNOLOGY**

## FACULTY PROFILE

Name of the faculty

**SHOBHA G**

Designation

ASSISTANT PROFESSOR

Contact Number

9964591024

Email ID

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## Educational Qualification

Degree	Specialization	University	Year of Passing
Ph.D	Biotechnology	VTU, Bengaluru	Thesis Submitted
M.Phil	Biotechnology	Jain college, Bengaluru	2011
M.Sc	Bioscience	University of Mysore Hemangotri, Hassan,	2006

## Work Experience

Teaching	Research	Industry
11	-	-

## Publications

National/International Journals	National/International Conferences	Books Authored/Edited
16	00	-

## Area of Interest

Enzyme technology	Agrinano technology
Biochemistry	

## Subject Taught

Microbial Biotechnology	Structural Biology	Biokinetics and Enzyme Technology
Lad to industrial	Clinical Biochemistry and Biochemistry	Downstream process Technology
Plant Biotechnology	Genetic Engineering and Application	Upstream Process technology

## In House Experience

Sl.No	Designation	Period	
		From	To
1	Assistant Professor	09/02/2009	Till Date

## Outside Experience

Sl. No	Place of Work	Designation	Period	
			From	To

## Membership in Professional Bodies/University Bodies/Organization

## Publications National/International Journals

1. In Vitro Cytotoxicity Study of Green Synthesized Copper Nanoparticles, Research Journal of Biotechnology, 2019, Vol 14 (8):105-111
2. Nano-cuprous oxide enhances seed germination and seedling growth in *Lycopersicum esculentum* plants, Journal of Drug Delivery & Therapeutics, 2019, 9(2):296-302
3. Enzyme assisted bioactive extraction from *Flacourtia montana* and investigation of its in-vitro antioxidant and anti-diabetic activity, International Journal of Pharmacy and Biological Sciences, 2018, 8 (1):384-390
4. Biodiesel Production from Simarouba Deoiled-Cake By Transesterification And Phytochemical Analysis, International Journal Of Pharmacy And Biological Sciences, 2017,7 (3):36-42
5. Plant Pathovars Inhibition from Copper Based Nanoparticles Synthesized from Leaf Extract Of Flacourtia Montana, Journal Of Bionanoscience, 2017, 11(12):1-8, 2017
6. Production of bioethanol from agrowaste processed Areca catechu Water. International Journal of Pharma and bioscience, 2016, 7(2):530-536
7. Power Generation from Kitchen and Industrial Waste Water using Microbial Fuel Cells (MFCs) with Graphite Cathode and Anode.s Journal of Alternate Energy Sources and Technologies, 2016,7(1):14-22
8. Isolation, characterization and optimization of process variables for partially purified immobilized  $\alpha$  - amylase isolated from Indian chicken feather, Int J Pharm Bio Sci, 2015, 6(2): (B) 1165 - 1171
9. Study on induce defense related enzymes in *Capsicum annuum* infected with *Xanthomonas vesicatoria*, International journal of Advanced research, 2014, 2(10):720-724
10. Biological transesterification of poultry waste to biodiesel using bacteria isolated from chicken feather, International journal of recent scientific research, 2014, 5(9):1729-1732
11. Biological Synthesis of Copper Nanoparticles and its impact - a Review, *International Journal of Pharmaceutical Science Invention*, 2014, 3(8):28-38
12. Phytochemical profile, Antibacterial and Antidiabetic effect of crude aqueous leaf extract of *Datura stramonium*, Pharmacophore, 2014, 5(2):273-278
13. A study on caffeine effect of tea on health, International Journal of Advanced Biotechnology and Research, 2014, 15(3):59-363
14. Study on advanced application of mint oil, Journal of Advanced Scientific Research, 2014, 5(4): 01-03
15. Estimation of crude caffeine in different types of tea, J Adv Sci Res, 2014, 5(4): 39-42
16. Antagonistic effect of the newly isolated PGPR *Bacillus* spp on *Fusarium oxysporum*, International Journal of Applied Science and Engineering, 2012, 1(3): 463-474

## National /International Conferences

## Faculty Development Programme Participated

- Participated in one-week faculty development program on “**Bimolecular Separation techniques**”, conducted at Department of Biotechnology, BMS college of Engineering from 27<sup>th</sup> Feb – 3<sup>rd</sup> March, 2017
- Participated in one day “**Faculty development program**” conducted in Sapthagiri college on 22<sup>nd</sup> of Jan 2015
- Participated in the FDP on “**DNA finger printing technology, Molecular Markers and bioinformatics**” organized by Department of Biological Sciences, Dayananda Sagar institutions, Bengaluru and Karnataka Science and Technology Academy, Department of Science and technology, Government of Karnataka on 28<sup>th</sup> Feb – 1<sup>st</sup> March 2014
- Participated in the FDP on “**Pesticide residue analysis and HPLC**” organized by Department of Biotechnology, PES institute of technology, Bengaluru sponsored by TEQIP from 14<sup>th</sup> Feb – 16<sup>th</sup> March 2013

## Workshop Attended

1. Participated in one day workshop on “**Wine processing and Wine Tasting**” on 2016, conducted at Heritage Grape Winery, Madhur.
2. Participated in the three-day Workshop on “**Research Methodologies and Latex**” organized by VTU e-learning center, Mysuru from 29<sup>th</sup> to 31<sup>st</sup> December 2014 at Vidya Vikas Institute of Engineering and Technology, Mysuru

## Awards/Recognition/Achievement/Others

- ❖ Best project award for Bioplastic Extraction from Waste Grease Produced in Industries Using as Glycerol as a Substrate from Karnataka State council for Science and Technology in the year 2019
1. 42S\_B\_BE\_003 Bioplastic Extraction from Waste Grease Produced In Industries Using As Glycerol As A Substrate, funded by Karnataka State council for Science and Technology KSCST, student project in the year 2019.
  2. 41S\_B\_BE\_076 - Design and Lab scale ultrasound batch reactor for the production of biodiesel from the slaughter waste, funded by Karnataka State council for Science and Technology KSCST, student project in the year 2018.
  3. 39S\_B\_BE\_050 - Simarouba Oil cake: The solid low value substrate to produce lipase with potential application in Biodiesel extraction and to assay the toxicity of phytochemical in inhibition of lipase activity, funded by Karnataka State council for Science and Technology KSCST, student project in the year 2016.
  4. 38S\_B\_BE\_038 - The potential utilization of processed areca catechu water an agrowaste for bioethanol production by fermentation process, funded by Karnataka State council for Science and Technology KSCST, student project in the year 2015.
  5. 37S\_B\_BE\_022 – Biological conversion of poultry waste to biodiesel using bacteria isolated lipase for transesterification, funded by Karnataka State council for Science and Technology KSCST, student project in the year 2014