



**Name:** Dr. S. Susithra

**Qualification:** M.Sc., Ph.D.

**Designation:** Assistant Professor

**Years of Experience:** UG: 02 months PG: 02 months

**Previous Experience:** UG: 8.10 PG: 0 PDF: 01

**Area of Specialization:** Fluorescence spectroscopy,  
Biophysical chemistry

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#### MEMBERSHIP

S.No.	Details	State/National/International
1.	Life member, Chemical Research Society of India, LM 1758	National
2.	Life member, Indian Society for Radiation and Photochemical Sciences, LM 531	National

#### PROJECTS

S.no.	Title	Duration	Funding agency	Amount sanctioned ( in lakhs)
1	A photophysical study on the association of serum albumin with biological aggregates in native and denatured states	2013 -2016 <i>Executed at Vel Tech Rangarajan Dr.Sagunthala R&amp;D Institute of Science and Technology</i>	SERB, DST, GOI	21.26

#### WORKSHOPS

S.no.	Organized by	State/National/International	Topic	Date(s)
1	Malaviya National Institute of Technology Jaipur and College of Technology and Engineering Udaipur	National	TEQIP-III Sponsored Five day's online workshop on "Outcome based education and NBA Accreditation Process"	October 19 to 23, 2020
2	Coimbatore Institute of Technology, Coimbatore,	State	TEQIP-III Sponsored Two day Faculty Development Programme on Design, Develop and Deliver online courses through MOODLE platform	23rd & 24th April, 2020

**CONFERENCES ATTENDED / PRESENTED PAPER**

S.no	Organized by	State/ National/ International	Participate d/Presente d	Title	Date(s)
1	Indian Institute of Technology Gandhinagar (IITGN) and Indian Society for Radiation and Photochemical Sciences	National	Presented	Understanding competitive inclusion complex formation of Triazolium based ionic liquids with $\beta$ -cyclodextrin as probed by Coumarin fluorescence <i>“14th Biennial National Symposium on Radiation and Photochemistry”</i>	25/06/2021 to 26/06/2021
2	Bhabha Atomic Research Centre, Mumbai.	International	Presented	Fluorescence spectroscopic study of interaction of amphotericin b with lipid bilayer membrane. <i>“Trombay Symposium on Radiation and Photochemistry”</i>	05/01/2006 to 08/01/2006
3	Mahatma Gandhi University, Kottayam.	International	Presented	Interaction of sodium cholate with amphotericin b: a photophysical study. <i>“PHOTORADCHEM-2007, An International Conference on frontiers of radiation and photochemistry”</i>	08/02/2007 - 11/02/2007
4	TIFR, Mumbai.	International	Presented	Fluorescence of Amphotericin B (AmB) in bile salt media. Fluorescence – 2009 <i>“An International Conference of Fluorescence in Biology”</i>	16/03/2009 to 19/03/2009

**CERTIFICATE COURSES /VALUE ADDED COURSES**

S.no.	Offered by	Topic	Duration
1	Coursera: Korea Advanced Institute of Science and Technology (KAIST)	Biochemical Principles of Energy Metabolism	29/06/2020 to 10/08/2020
2	Coursera: Duke University, North Carolina State University and The	Nanotechnology: A Maker’s Course	02/08/2020 to 24/08/2020

	University of North Carolina at Chapel Hill		
3	Coursera: Technion - Israel Institute of Technology	Nanotechnology and Nanosensors , Part1	07/09/2020 to 19/07/2020

### JOURNAL PUBLICATIONS

S.NO .	JOURNAL NAME	UGC /SCI/SCIE /WOS	ISBN / ISSN NUMBER	REFERENCE	DATE OF PUBLICATION/ DOI
1	Materials Today: Proceedings	UGC & SCI	2214-7853	Evaluation of fluorescence based quantification of DNA: Influence of an external fluorescent probe	2020/ <a href="https://doi.org/10.1016/j.matpr.2020.02.415">10.1016/j.matpr.2020.02.415</a>
2	Materials Today: Proceedings	UGC & SCI	2214-7853	Fluorescence spectroscopic analysis of heavy metal induced protein denaturation	2020/ <a href="https://doi.org/10.1016/j.matpr.2020.04.693">10.1016/j.matpr.2020.04.693</a>
3	Journal of Pharmaceutical Analysis	UGC & SCI	2095-1779	Denaturation studies on bovine serum albumin – bile salt media: bile salt stabilizes bovine serum albumin through hydrophobicity	2018/ <a href="https://doi.org/10.1016/j.jpha.2017.06.007">10.1016/j.jpha.2017.06.007</a>
4	Journal of Pharmaceutical Analysis	UGC & SCI	2095-1779	Bile salt induced solubilization of methylene blue: Study on methylene blue fluorescence properties and molecular mechanics calculation	2017/ <a href="https://doi.org/10.1016/j.jpha.2016.07.006">10.1016/j.jpha.2016.07.006</a>
5	Journal of fluorescence	UGC & SCI	1053-0509	Elucidation of monomerization effect of PVP on chlorin e6 aggregates by spectroscopic, chemometric, thermodynamic and molecular simulation studies	2013/ <a href="https://doi.org/10.1007/s10895-013-1236-4">10.1007/s10895-013-1236-4</a>
6	Journal of Photochemistry and	UGC & SCI	1011-1344	A fluorescence parameter based analysis on the	2012/ <a href="https://doi.org/10.1016/j.jphoto.2012.08.002">10.1016/j.jphoto.2012.08.002</a>

	Photobiology B: Biology			solubilization of carvedilol by bile salt media	
7	Photochemical & Photobiological Sciences	UGC & SCI	1474-9092	Multiple prototropism of fisetin in sodium cholate and related bile salt media	2011/ <a href="https://doi.org/10.1039/c0pp00120a">10.1039/c0pp00120a</a>
8	Journal of Pharmaceutical Sciences	UGC & SCI	0022-3549	A Photophysical Study on the Role of Bile Salt Hydrophobicity in Solubilizing Amphotericin B Aggregates	2009/ <a href="https://doi.org/10.1002/jps.21718">10.1002/jps.21718</a>
9	Journal of Photochemistry and Photobiology B: Biology	UGC & SCI	1011-1344	Disaggregation of amphotericin B by sodium deoxycholate micellar aggregates	2008/ <a href="https://doi.org/10.1016/j.jphoto.2008.06.012">10.1016/j.jphoto.2008.06.012</a>

#### FDP/STTP

S.no.	Organized by	State/National/International	Topic	Date(s)
1	National Institute of Technology Raipur	National	FDP on “Novel Materials: Advances and Application”	24/09/2021 to 28/09/2021
2	All India Council for Technical Education (AICTE)	National	Inculcating Universal Human Values in Technical Education	17/05/2021 to 21/05/2021

#### WEBINARS [National/International]

S.no.	Organized by	State/National/International	Topic	Date(s)
1	Madanapalle Institute of Technology and Science, Madanapalle, Andhra Pradesh	International	First International Virtual conference on "Recent Trends in Nanomaterials Synthesis and Applications"	16/07/2020 to 18/07/2020
2	National Institute of Technology, Rourkela and Indian Photobiology Society	International	International Webinar Series on "Biomolecular Dynamics and Kinetics"	23/08/2020 to 27/08/2020

**AWARDS:**

- Qualified in Graduate Aptitude Test in Engineering (GATE) in 2004.

**OTHERS:****SPECIAL LECTURE DELIVERED**

<b>S. No.</b>	<b>Event Title</b>	<b>Topic</b>	<b>Organizer</b>	<b>Date</b>
1	FDP on “Enhancing Effective Online Teaching and Learning”	A virtual teaching experience: Developing online course content	School of Allied Health Sciences, Vinayaka Missions Research Foundation, Salem	06/07/2020
2	FDP on “Enhancing Effective Online Teaching and Learning”	Methods and Tools to Assess Online Education: Current Practices and Future Directions	School of Allied Health Sciences, Vinayaka Missions Research Foundation, Salem	08/07/2020
3	PSG – Binghamton International Research Webinar Series	Aspects of Molecular fluorescence in Photobiological and Pharmaceutical Technology	PSG College of Technology and Binghamton University	11/11/2020

**PROGRAMME CONDUCTED**

<b>S. No.</b>	<b>Title of the Programme</b>	<b>From</b>	<b>To</b>	<b>No. of Audience</b>
1	Online FDP on Virtual Teaching Learning Experience	29/07/2020	30/07/2020	240