



Dr. JK. ALPHONSA JULIET HELINA

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About Me

I am happy with the teaching and research experience of 5 and 8 years respectively. My vision is to lead the young budding students in the pathway of quality scientific research. My research progression is based on nano synthesis and its applications on bio-medical and catalytic activity. Expertise in qualitative and quantitative phytochemical analysis in medicinal plants. I deem it a great responsibility of disciplining the students to be socially conscious and committed.

Education

- **2013: B. Sc. Chemistry** – Holy Cross College, Tiruchirappalli- 620002. (Distinction)
- **2015: M. Sc. Chemistry** – St. Joseph's College (Autonomous), Tiruchirappalli- 620002 (FIRST Class)
- **2020: Ph.D Chemistry** - St. Joseph's College (Autonomous), Tiruchirappalli- 620002

Area of Specialization: Physical Chemistry & Nano-Technology

Skills

- Making chemistry related models.
- Using Chemistry related softwares (*ChemSketch, ChemDraw, Origin...etc*)
- Writing, reading, public speaking skills
- Computer Skills – Creative designing, e-content and lectures.
- Organizing Skills – Seminars, Conferences and Meetings

Awards and Recognitions

- Received *College Management Medal* (2013-2014)- *First rank holder.*
- Got "*Physical Chemistry Topper*" cash award during my PG course (2013-2015).
- Received *Shri R Govindarajan Memorial cash award* (2013-2014)- *First rank holder.*

- Received *College Management Medal* (2014-2015)- *Second rank holder*.
- Received *Shri R Govindarajan Memorial cash award* (2014-2015).
- Received *Dr. K. Nambi Endowment cash award* (2014-2015).
- Received *Shri S.Kuppuswamy Memorial Gold medal and cash award* (2014-2015)- *Rank holder*.
- Received *College Management Prize for best outgoing student* (2015).
- Received *Prof. Balasubramaniam Medal* (2015).
- Received *Dr. KS. Arulsamy Cash Award for second best outgoing student* (2015).
- Acted as JUDGE for oral presentation in a conference Anadha College, Devakottai (2016)
- Best Oral Presentation Bannari Institute of Technology (2022)

Academic and Research Contributions

Experience in Teaching Chemistry :

- 5 years for B.Sc Chemistry and M.Sc Chemistry

Educational Consultancy:

- Qualitative and Quantitative Phytochemical Analysis

Research Guidance:

- M.Sc Supervised and Completed : **10**

Research Projects:

SJCRG: Successfully completed

2022: *Fabrication and analyzing of Hiptage benghalensis encapsulated chitosan hybrid beads as anticorrosion agent*

Research Articles:

- Research Articles published: 16 Papers
National Journals - 2 Papers & International Journals- 14 Papers
- Book Chapters: 2

Participation in Seminars:

- Participation in Seminars and Conferences: 22
- Webinars: 33
- Faculty Development Program: 7

Community Service:

- With *SHEPHERD* Extension Department

Science Exhibition, Talks in Awareness Programs, etc

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- With *Campus Ministry*

Retreat for Students, Prayer Worship, etc.

- With *Alumni Association*
- *NSS Program Officer*