

Curriculum vitae:

Full Name: Sindhu Konanur Shankar

Career Objectives: By obtaining the vast knowledge of chemistry, and by relating this with different aspects of life, I would like to make this world a better place for living. Also, my goals pertain to eliminate incurable diseases using my knowledge as well as advanced technology and dedicate my life, by working, for the welfare of the society.

Educational Qualifications:

Course	Institution	Year of passing	Percentage obtained (%)
PhD (ongoing)	University of North Texas, Denton, Texas, USA	2017-	-
MSc	SDM College, Ujire	2016	74
BSc	Vijaya College, R.V.Road, Bangalore	2014	81
12 th grade	Kendriya Vidyalaya, Hassan	2011	71.6
10 th grade	Kendriya Vidyalaya, Hassan	2009	91.6

Experience:

1. Teaching experience during summer vacations for 10th CBSE students.

During my summer vacations, every year, as I have a great passion for spreading knowledge of science among students, I started teaching about twenty students who came to me for help and so potentially I spent time for a good cause.

2. Worked as student faculty (Teaching assistant) for teaching M.Sc first year students.

Among 65 students in my 2nd year M.Sc, 2015-2016, I was selected to teach first year M.Sc Chemistry students for 8 hours and the topics were based on nucleic acids and a few topics of the inorganic chemistry like Juan-Teller effect and so on, from the academic curriculum.

3. Worked as a volunteer in Art of Living, a non-profit organisation for three years.

As a volunteer in the Art of living organisation, I could spread peace and happiness by helping them to conduct yoga, meditation, Sudarshana Kriya (breathing exercises) and Satsang (Bhajans in groups) from 2008 to 2011.

4. Worked as a biochemist in a diagnostic laboratory.

As a Biochemist, from June-July, 2016, I learnt different lab tests which are conducted to diagnose blood sugar levels, WIDAL tests, HIV tests, Triglyceride tests and so on using different chemical agents.

Achievements:

1. Got highest score in 10th grade and received various scholarships.

As I obtained 91.6% in CBSE syllabus in tenth grade, merit

scholarships were given to me by a few organisations in the year 2009 which was published in the local newspaper.

2. Got max in Chemistry (100 on 100) in first semester B.Sc and was awarded merit scholarship from the college.

An appreciation from Principal and Dean of Vijaya College in the year 2012 was received by me, as a merit scholarship of a thousand rupees with a lot of blessings.

3. Was selected as one of the members of the Magazine Committee in Vijaya College in the year 2014.

As an active member of the Magazine Committee, I was able to help students to express their innate talents on paper.

4. Participated in various intercollegiate competitions and won the overall championship in St. Aloysius College, Mangalore in 2015.

During Masters Program, I participated in quiz competitions conducted by various colleges in and around Mangalore and won a lot of prizes.

5. Got selected as the Student Coordinator for ConChem, an active group of chemistry students, in the year 2015 at SDM College, Ujire.

As a Student Coordinator in ConChem, we conducted a lot of activities for students of many colleges related to different aspects of chemistry like seminars by students, guest lectures, quiz competitions, essay competitions and so on. The aim of this chemical group is to spread the importance of chemistry in everyday life and its contributions to this world.

6. Was selected as a Quiz master to conduct quiz on the vast subject of chemistry for both Undergraduate and postgraduate students, majoring in Chemistry, in the year 2016.

Research:

1. Conducted a research on “Bangalore-past, present and future” and completed it successfully in the year 2012.

Under the guidance from the Department of Biotechnology, I conducted a survey on the developments and changes which are observed from past to present as well some predictions for the future of Bangalore city, and got first prize for this project during the Science Exhibition in Vijaya College, Bangalore.

2. Completed a project on Sericulture and different techniques involved in it, in the year 2010.

This project was a great success and I could do it under the guidance of Department of Biology, KV Hassan and Deputy Director of Sericulture, Hassan District wherein I got a chance to study the life cycle of a moth from being a cocoon and through different larval stages, its food habits and reproduction.

3. Completed a project on the topic “Preparation of Alum from Scrap Aluminium” in the year 2010.

Under the guidance of my lecturer in the Department of Chemistry, KV Hassan, I successfully prepared potash alum from Scrap aluminium using a strong base (KOH) and further with a strong acid (Sulphuric acid).

4. Presented a seminar on the topic of “Fluorine Chemistry in Pharmaceuticals” in 2015.

Under the guidance of faculty of Department of Chemistry, SDM College, during M.Sc, I got a chance to present a seminar on the above mentioned topic and was able to explain how fluorine acts as an efficient active agent in various drugs like Anti-tumours, Statins and Anti-depressants and so on.

5. Presented a research seminar on the topic of “Mechanisms for the formation of thymine under astrophysical conditions and implications for the origin of life” in 2016.

In this research seminar, I presented the most efficient pathway by which thymine is formed under astrophysical conditions and the reason why life exists only on earth.

6. Currently working on binuclear Platinum complexes which can be used for bio-imaging for the detection of Cancer cells and other specific biomolecules.

7. Currently, also working on a trimer complex of Gold which can also be used as a biosensor.

Instrumentation and Skills:

-Efficient in Spectroscopic measurements, UV-Vis Spectrophotometer, Fluorometer, Lifetime measurements

-Efficient in Flame Atomic Absorption Spectroscopy instrumentation

-Efficient in FEMTO-second and NANO-second LASER instrumentation

-Efficient in using Microwave reactor

-Efficient in FTIR instrumentation

-Efficient in synthesis of inorganic complexes and lab skills

-Very creative, an energetic individual, passionate about the research and to learn much more in Chemistry

-Worked as a Prepper, Lab Teaching Assistant and Super Teaching Assistant (for Dr. Amy Petros) at University of North Texas (2017-2018)

Hobbies:

1. Gardening on weekends
2. Reading novels
3. To give the best I can for the society whenever I get a chance
4. Initiating adoption of dogs in the society
5. Writing poems
6. Collecting rare coins

Contact:

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