

K. ATHIRA

#15, Sai Nivas, Munnekolala,

Marathahalli - 560037.

Mobile: +91 -9995209976

Email: athirakengail2@gmail.com



Career Objective:

To associate with an esteemed organization that provides an opportunity to show skills, improve knowledge with latest trends and to be a part of the team that works dynamically towards the growth of the organization.

Skills:

- Classroom Management
- Lesson Planning
- Quizzes, Tests, and Exams.
- Parent and Teacher Conferences and Communications
- Interactive Teaching and Learning
- Student Assessment and Records Management
- Student-Centered Learning
- Flexible and Adaptive
- Learning Strategies
- Motivating Students
- Learning Assessments
- Performance Assessments and Test Grading
- Student Rapport and Student Engagement
- Critical Thinking

Technical Proficiency in Laboratory:

- Basic Microbiological Laboratory Skills (Media preparation, Bacterial identification, culture techniques, Antibiotic sensitivity tests, Antimicrobial activity tests).
- Micrometry
- Common Laboratory Skills in Biochemistry.

- Cooling Centrifugation.
- Agarose Gel Electrophoresis.
- UV – Visible Spectrophotometer.
- Polymerase Chain Reaction.

Experience:

➤ VIBGYOR Group of Schools, Bangalore

Biology Subject Teacher – CAIE Senior Secondary - July 2022 – Current

Roles and Responsibilities:

- Taught AS and A Level International Syllabus (Cambridge).
- Gave 100% Board results in AS and A Level with A* and A grades in Biology Papers.
- Conducted various Practical Sessions and developed hands - on experience among students.
- Prepared and presented lesson plans in academic subjects using traditional and modern teaching techniques, i.e., Cambridge Strategies.
- Provided letters of recommendation and other referrals to students pursuing further education programs.
- Prepared and maintained classroom environments appropriate for student learning and physical, social and emotional development.
- Encouraged student critical thinking and discussion using variety of teaching techniques.
- Managed student behaviour in classroom by establishing and enforcing rules and procedures.
- Supervised students throughout day, both in classroom and outside during breaks.
- Graded student papers and assignments to track student progression.
- Built and strengthened positive relationships with students, parents and teaching staffs.
- Designed individualized curricula for academically underachieving students.
- Enforced discipline on campus and during off-campus school trips following code of conduct and student handbook.
- Enhanced lessons with smart board technology, iPads and computers to address common core goals.
- Established and enforced rules for behaviour and procedures to maintain order among students.

- Engaged students and boosted understanding of material using focused instructional strategies and hands-on activities.
- Scheduled and held parent-teacher conferences to keep parents up-to-date on children's academic performance.
- Assisted fellow teachers with assignment development, special projects, tests, administrative updates and grading.
- Built and strengthened positive relationships with students, parents and teaching staff.

➤ **Tharananellur Arts and Science College**

Assistant Professor - Jun 2019 to Apr 2022

Roles and Responsibilities:

- Engaged students in lectures by encouraging sharing of opinions and group interactions.
- Participated in faculty meetings to discuss department goals and strategy.
- Evaluated and supervised student activities and performance levels to provide reports on academic progress.
- Evaluated student progress, graded assignments and provided students with feedback.
- Used multiple teaching styles to meet learning needs of each individual student.
- Prepared innovative course materials to encourage critical thinking and discussion.
- Adapted teaching methods and materials to meet students' varying needs and interests.
- Tutored students requiring additional assistance to improve overall comprehension of difficult concepts.
- Mentored and assisted with student-Centered activities on campus to establish professional relationships.
- Delivered highly complex material in easy-to-understand terminology to reach largest number of students.
- Administered and graded tests and assignments to evaluate student performance and monitor progress.
- Mentored graduate students in thesis research and development.
- Provided guidance for student thesis and dissertation work.
- Applied creative instruction methods to promote student learning objectives.
- Developed curriculum, lesson plans and lab exercises for 25 classes per semester.
- Planned class material to engage students in both online and in-person class environments.

- Built strong student rapport by driving classroom and online discussions and providing academic advisement.
- Performed research in Antibacterial activity of different medicinal plants against wound pathogens.
- Directed full classrooms of students to develop various kinds of research.
- Supervised dissertational research work to assist research publication process.
- Resolved disciplinary issues and escalated major concerns to department head.
- Provided letters of recommendation and other referrals to students pursuing further education programs or postgraduate employment.
- Monitored safety practices and cleaning procedures in lab to minimize sample compromise.
- Demonstrated scientific concepts through use of laboratory experiment, charts, sketches, and other instructional aids.
- Held office hours to assist students with course materials and tests.
- Graded tests and papers and uploaded grading information to district system.

Research Guidance

Project work for UG students (2019 - 2020)

- Antibacterial Activity of *Hemigraphis colorata* on *Staphylococcus aureus* and *Escherichia coli*.
- Antibacterial activity of *Chromolaena odorata* on *Streptococcus pyogenes* and *Pseudomonas aeruginosa*.

Project work for UG students (2020 - 2021)

- Isolation and Identification of Microorganisms from Raw, Boiled and Pasteurized Milk Samples and their Adulteration Tests.
- Antibacterial activity of stem bark extracts of *Mangifera indica*.

Project work for UG students (2021 - 2022)

- Antibacterial activity of peel extracts of *Citrus sinensis* and *Citrus limon* on *Staphylococcus aureus* and *Escherichia coli*.

- Antibacterial activity of leaf extract of *Psidium guajava* on *Bacillus subtilis* and *Pseudomonas aeruginosa*.

Project work for PG student (2021 - 2022)

- Antibacterial activity of different medicinal plant extracts on different microorganisms isolated from wound samples.

➤ Excel Coaching Centre

Biology Teacher - Sep 2018 to May 2019

- Managed consistent, learning-focused classroom environments by establishing and communicating clear objectives for students.
- Guided and supported students in building knowledge and skills.
- Adapted teaching methods and instructional strategies to promote learning in students of differing skill levels.
- Delivered clear, informative lectures on subject matter framed to meet state standards.

Educational Qualifications:

- **Pursuing B.Ed.,** Gear College, Bangalore University, Bangalore, 2023 - 2025
- **M.Sc. Microbiology,** Sri Venkateswara University, Tirupati, 2016-2018, 77.8%.
- **B.Sc. (MBC),** GATE Degree & PG College, Tirupati, Sri Venkateswara University, 2013-2016, 83.2%.
- **Intermediate (Bi.P.C),** Sri Gayatri Junior College, Tirupati, Board of Intermediate Education (A.P.), 2011-2013, 92%.
- **S.S.C.** from Infant Jesus English Medium School, Renigunta, Board of Secondary Education (A.P.), 2010-2011, 89.3%.

Project Profile:

- **Title** : Production of Alcohol from Paddy Straw waste using Separate Hydrolysis and Fermentation (SHF)
- **Venue** : Sri Venkateswara University, Tirupati.
- **Summary** : This project is based on the production of alcohol from pre-treated Paddy Straw with different acids & bases by different strains of Yeast and concluding the production of highest amount of alcohol.

Achievements:

- Among top 3 students in Microbiology branch at our University.
- Won 2nd prize in Elocution competition on the theme “*Science and Technology for Specially Abled Persons*” in connection with “*National Science Day Celebrations.*”
- Won 2nd prize in essay writing competition in connection with “*National Student’s Day Celebration*” at our college.

Participations:

- Participated in “*Science Academies Lecture Workshop*” on “*Recent Trends in Biochemistry and Biotechnology.*”
- Participated in “*National Lecture-cum-Workshop*” on “*Application of Chemoinformatics – Big Data in Drug Discovery.*”
- Participated in the International Webinar on “*COVID – 19: Current Status of Vaccine Development and Immunization*” jointly organized by Mangalore University and Microbiologists Society, India [MSI].
- Participated in Webinar on “*Human Microbiome – The Knowns and the Unknowns*”, organized by Dept. of Microbiology, Tharananellur Arts and Science College, Irinjalakuda, Kerala.
- Participated in the “*World Rabies Day Quiz – 2020*”, organized by Department of Microbiology, Vivekanandha College of Arts and Sciences for Women, Thiruchengode, Tamil Nadu.

- Participated in “*COVID – 19 Online Quiz – 2020*”, organized by UniBiosys Biotech Research Labs, Cochin, Kerala.
- Participated in “*COVID – 19 Awareness Quiz*”, organized by IQAC, St. Joseph’s College, Irinjalakuda, in association with Dept. of Biotechnology and Dept. of Zoology, Irinjalakuda, Kerala.
- Participated in “*World Food Day Quiz – 2020*”, organized by Dept. of Microbiology and Dept. of Nutrition and Dietetics, Vivekanandha College of Arts and Sciences for Women, Thiruchengode, Tamil Nadu.
- Participated in “*104th Indian Science Congress Association.*”
- Participated in talent test conducted by “*Sir C.V. Raman Council of Educational Awards*” at school level.

Personal Details:

Father’s Name	:	K. Aravindan
Date of Birth	:	28-02-1996
Age	:	28
Gender	:	Female
Nationality	:	Indian
Marital Status	:	Married
Languages	:	English, Malayalam, Hindi, Telugu & Tamil

Declaration:

I hereby declare that the above-mentioned details are true and correct to the best of my knowledge and belief.

Date:

(K. ATHIRA)

