

Kajal Singh

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SKILLS

PROBLEM SOLVING

MS PowerPoint • MS Word

LANGUAGES

• Java • C

LAB TECHNIQUES

• Chromatography
• Gram Staining
• Agarose Gel Electrophoresis
• Microscopy

EDUCATION

BHARATI VIDYAPEETH UNIVERSITY

B.SC.IN BIOTECHNOLOGY

May 2026 | Pune, Maharashtra

Rajiv Gandhi Institute of IT And
Biotechnology

SARYU ADARSH BALIKA INTER COLLEGE

Grad. April 2023 | Colonelganj, Gonda

LINKS

Github:// kajalverse

Linkedin:// kajalss2603

COURSEWORK

GRADUATE

Quantum Mechanics
Electrodynamics
Physical Chemistry
Evolutionary Theory

UNDERGRADUATE

Lab Techniques
Model Presentation
Workshops
Molecular Modeling
Spectroscopy And Analytical Techniques
Molecular Biology
Developmental Biology
Microbiology
Biochemistry
Environmental Biotechnology
Plant Science
Animal Science

WORK EXPERIENCE

| STUDENT

July 2023 – Present | Pune, Maharashtra, India

- In Plant Science Lab study of different types of fruits and structure of seeds and Study of Anatomy of Dicot and Monocot plants.
- In Animal Science Lab Study of earthworm ,study of visceral organs and digestive system of earthworm and study of parasites their **morphology**,mode of **infection,pathogenicity** and control measures.
- Study of Honey Bees their products (Honey,wax,and royal jelly ets.) And the study of types of silkworm and their economic importance and the visit to the **Sericulture Industry**.
- In Biochemistry Lab Study of **Biochemical reagents** ,Isolation of **Starch from Corn**, Isolation of **Casein Protein from Milk**.
- In Microbiology Lab study of Introduction of Microscopy,Preparation of Media and their Applications , study of staining techniques **gram staining,negative staining,monochrome staining**.
- Study of **Staining of Cell Organelles**(Capsule,Spore,Cell wall), study of Pure Culture techniques, Study of observation of Bacterial motility.
- Study of **Antibiotic susceptibility by Disc diffusion assay**,study of Isolation and Staining of Fungi and Yeast from Natural environment.
- In Cell Biology Lab Study of **Blood cell** types,study of identification of **Human blood groups**, study of **Mitois** by preparing temporary mount of **Onion root tip**.
- In Molecular Biology Lab Study of Isolation of **Genomic DNA** from Plant cell,study of **Analysis of DNA by Agarose Gel electrophoresis**.
- Study of **Widal Test** used for diagnosis of **Typhoid Fever** ,which is caused by the bacteria Salmonella typhi and Salmonella paratyphi.
- In Analytical Techniques Lab Study of separatin of biomolecules by using **Dialysis technique** , study of **Immobilization of Enzyme**.
- Study of separation of biomolecules based on their size by **Gel Filtration Chromatography**,study of **Protein purification by Affinity chromatography**.
- In Developmental Biology Study of Different types of Eggs, study of cleavages in frog , study of **Blastula and Gastrula** in(Insect,Amphioxus,and frog) , Study of Preparation of whole mount **Chick Embryo**.
- Study of permanent Slides of Chick embryo(18h,24h,48h,72h,96h).
- In Environment Biotech Lab study of **Dissolved Oxygen (DO)**in water sample,study of **Biochemical Oxygen Demand (B.O.D)**in water sample.
- Study of **Chemical Oxygen Demand (C.O.D)** in waste water sample, study of Preparation of Vermicompost pit, study of production of **Biogas**,and Biogas plant visit.

PERSONAL PROJECTS

| **SOIL MONITORING BIOSENSOR** | **BORDETELLA PERTUSSIS MODEL** | **SUSTAINABLE PACKAGING** |

FUN FACTS

HOBBIES

• Reading • Writing • Swimming

VOLUNTEER EXPERIENCE

Community Volunteering • @National Service Scheme