

DEPARTMENT OF BIOCHEMISTRY

YADAVA COLLEGE, MADURAI-14

DEPARTMENT PROFILE

Year of establishment:

B.Sc- 1996

Vision and Mission of the Department:

The department of Biochemistry is committed to education and training UG students to acquire an in-depth knowledge of the fundamental principles of the subject Biochemistry. So that he/she can apply this knowledge, for understanding the basis of health and disease.

The entire course of biochemistry is based on under mentioned syllabus, enables the learners to acquire basic knowledge in Biochemistry, which is applied in various fields, existing and emerging from clinical biochemistry to bioinformatics, sandwiching biotechnology, it also imparts knowledge about medical coding, biochemical techniques and also immunological techniques and hands on training programme in Blood sample collection.

TEACHING METHODS:

Teaching methodology includes

- Lecture cum demonstration
- Practical's
- Group discussion
- Assignment
- Seminar
- OHP presentation

- Power point presentation
- Chalk and talk

RESEARCH:

- All the teachers are doing active research
- One teacher is completed Doctoral degree
- Three teachers have completed M.Phil degree

EXTENSION ACTIVITY:

- “Green initiative sapling distribution”- Alathoor village, Madurai on 30th January 2026
- Promoting green growth: “Seed Ball distribution and Awareness Campaign” Mr. M. Arunachalam, Professor and Practice, TNAU, Madurai on 06 March 2025, Alathoor village.
- Distribution of Saplings- Koolapandi village, Madurai on 08 March 2024.
- Free medical consultancy programme for villagers - Oomatchikulam on 20 March 2023.

SEMINAR PROGRAMME:

- “REGENERATIVE DYNAMICS OF ORGANICAGRICULTURE- BEYOND SUSTAINABILITY” – Chief guest- Dr. V. Karthikeyan, Assistant Professor, Department of Botany, Thiagarajar College, Madurai on 20 Jan 2026.

- FORENSIC BIOLOGY- Chief guest- Mr. V. Navaneethakrishnan, Scientific officer, Forensic science Department, Madurai on 20 Feb 2024
- “IN-VITRO AND IN-VIVO EVALUATION OF THERAPEUTIC EFFICACY OF FUNGAL METABOLITES”- Chief guest- Dr. M. Pandi, assistant Professor, Department of Molecular Microbiology, School of Biotechnology, Madurai Kamaraj University, Madurai on 24 Sep 2024
- HEALTH HAZARDS – Chief guest- Dr. Caleb Johnson Paranjothi, Head and Assistant Professor, Department of Biochemistry, The American College, Madurai, on 21.03.2023

INFRASTRUCTURE FACILITIES

- All basic necessary apparatus and other set up for conducting practical in
 - Clinical biochemistry- especially colorimeter, BP apparatus
 - Biotechnology, Molecular Biology, Immunology and Bioinformatics.
 - Computers
 - Which are very much useful in preparing handouts, setting question papers, power point presentation and visualizing the animated molecular mechanisms.

STUDENTS SUPPORT

- Students receive counselling both in academic and personal affairs, to enrich their study and life.

STAFF MEMBERS ARE MEMBERS IN

- Resource person
- Question setting boards
- Evaluation boards

STAFF PARTICIPATION IN

- International Seminars
- National seminars
- State level seminars
- Work shops
- Hands on training
- Staff members regularly participate in professional development training to update knowledge in biotechnology and bioinformatics, acquired knowledge is transferred to students.

STUDENT LEARNING SUPPORTIVE RESOURCES

- Dept Library books : 255
- E-books : 50
- CDS : 13
- Study materials : 11

ALUMINI

- Alumni are placed in/ as Research Avenues Research and Development Wings, Medical Representatives Medical Lab Technologies and Teachers, Postal Departments and Army.

FUTURE PLANS

- To acquire doctoral degree by all the staff members
- To upgrade the department to post graduate level
- To initiate a small Mushroom cultivation production unit to commercialize the products at minimal cost as a Community Service.

- To organize Herbal Drug Preparation Training to the rural women, to popularize the natural system of medicine
- To start a medical university approved DMLT/MLT course