

DWARAKA DOSS GOVERDHAN DOSS

VAISHNAV COLLEGE

(AUTONOMOUS)

College with Potential for Excellence

**(Linguistic Minority Institution), Affiliated to University of Madras,
Chennai – 600 106**

**POST GRADUATE AND RESEARCH
DEPARTMENT OF MICROBIOLOGY**



PROSPECTUS 2024 - 2025



*M.Sc., Applied
Microbiology*



Ph.D., Microbiology

Vision



To provide a captivating and pertinent microbiology curriculum that will train students at a high standard of systematic literacy and divulge proper skill sets.



To nurture professionals to categorize tasks with a broad perspective and knowledge and take inventiveness in interdisciplinary education and research

Mission

M1

- To become a student-oriented centre of international repute, where student from all strata of the society are given a chance to bring out their best through continuous stimulus of scholarly progression and intellectual development.

M2

- To enhance the intellectual foundation of our students and prepare them for life in a complex, dynamic world where they would preserve, add to, evaluate, and transmit knowledge in the field of microbiology and become responsible contributing citizens of society, who can take up leadership positions around the globe.

M3

- To groom proficiency excellence for industry and to make accessible a large pool of well-educated entities as potential pedagogue and students as scientific workforce in national and global.

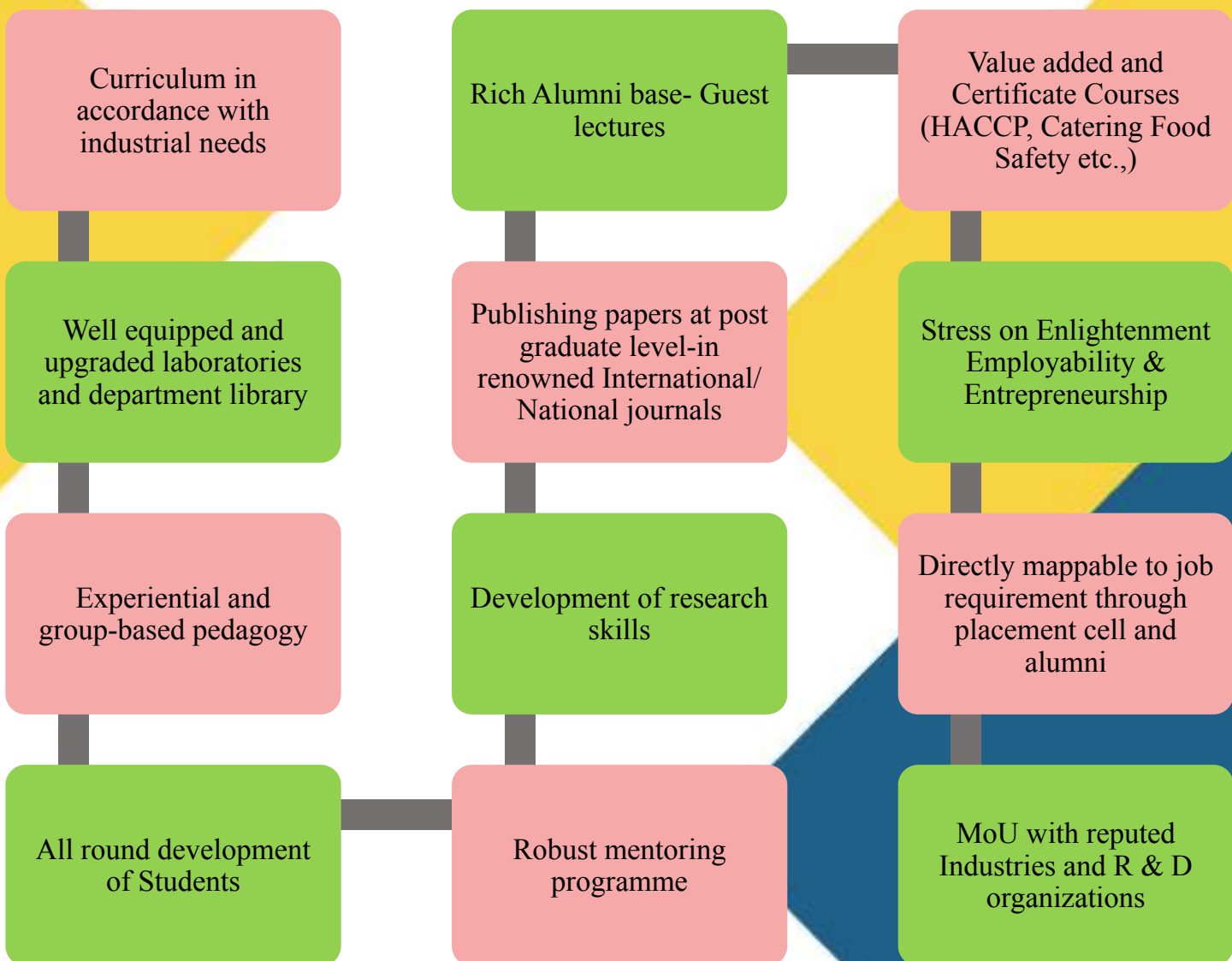
***Best Department Award
received from
Microbiologist Society of
India for the year
2023-2024.***



The Department

Dr. S. P. Thiyagarajan, Former Vice Chancellor, University of Madras, inaugurated the P.G. Department of Microbiology in the year 1997. Since then it has built necessary infra structure to carry out research in various fields of microbiology. The department is equipped with state of the art equipments to carry out research through M.Phil.,(year of inception 2015) and Ph.D ., (Year of inception 2019) programs. A team of highly qualified, experienced and dedicated faculty members form the backbone of the department. The department hosts micromatsuri – a microbiological association meet every year and publish Newsletter Microspot annually. The Department impart quality education through sound theoretical knowledge, hands on laboratory practice as well as computational skill and exposure to recent technologies by visiting industries & expert talk.

Salient Features - Department





Lab1 - Medical Microbiology



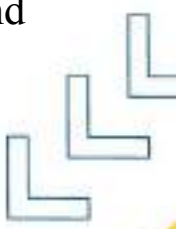
Lab 2 – Applied Microbiology



Lab-3 Immunology and Molecular Biology



Department Library



Instrumentation



Infrastructure

Faculty

Dr.P. Vidya, M.Sc., M.Phil., Ph.D.
Head of the Department

Dr. S. Jagadeeswari M.Sc., M.Phil., Ph.D., SET.

Dr. B. Kirthiga M.Sc., M.Phil., Ph.D

Dr. M. Abirami M.Sc., M.Phil., Ph.D

Dr. V.Rajalakshmi M.Sc., M.Phil., Ph.D

Department Activities

“International Conference on Exploring Innovative Technologies in Biosciences Towards Sustainable Development”



“Skill Training program in association with TANUVAS”



“National Seminar on Thrive For Safe Foods- New and Novel Technologies”



Workshop on Basic Microbiological techniques



“Hands on Training – Mastering in Molecular techniques”



“International Microorganism Day- Awareness program for DDGDVC Students about Microbes”



Department Pursuit



Promoting Environmental sentence



Regular industrial Visit



Implementation of Training Program

Placement

The collage features logos for the following organizations:

- BOSTON pharmaceuticals
- Hospira
- Biocon
- GreenSignal BIO PHARMS LIMITED WELLNESS FOR ALL
- Apollo Research & Innovations (ARI) A division of Apollo Hospitals Enterprise Ltd.
- Sai Mirra Innopharm Pvt. Ltd.
- SAS MICRO
- Institut Pasteur
- Sri Chaitanya Techno School
- Neuberg DIAGNOSTICS India • UME • South Africa • USA
- CPF World leader in Aquaculture
- Pfizer
- TAJ Hotels Resorts
- Manna
- SGS
- ITC HOTELS RESPONSIBLE LUXURY
- BCG Vaccine Laboratory, Chennai
- LISTER METROPOLIS The Psychology Specialist
- SFTS
- Scientific Food Testing Services (P) Ltd. Revolutionizing in Food Quality and Better Health.
- Le MERIDIEN COIMBATORE
- Billroth Hospitals
- Dr. Mehta's Hospitals
- Aachi
- BREEZE SUITES
- BUREAU VERITAS
- Emirates Flight Catering
- MARRIOTT
- diacriTech
- ePublishing
- NATIONAL INSTITUTE FOR RESEARCH IN TUBERCULOSIS
- SANKARA NETHRALAYA
- PARIKSHAN Empowering society through science.
- ACCORD HOTELS AND RESORTS
- FOCOS FOOD CONSULTING... STRATEGICALLY
- AZODI Your True Quality. Your True Partner.
- VIJAYA GROUP OF HOSPITALS UNIT OF VIJAYA MEDICAL & EDUCATIONAL TRUST
- SUN PHARMA

Eligibility for Admission – M.Sc., Applied Microbiology

The candidate shall be admitted to the course provided he/she has passed the bachelors degree in Science, in Microbiology, Zoology, Botany, Chemistry, Biology, Life science, Animal science, Biochemistry, Bioinformatics, Homescience, Nutrition and Dietetics, Biomedical science, Medical laboratory technology, B.S.M.S (or) B.A.M.S (or) B.U.M.S and Paramedical sciences of this University or other University recognized by the UGC as equivalent thereto. Candidate shall be admitted to the examination only if he/she has taken the qualified degree in science/medical subjects as mentioned after having completed the prescribed courses consisting of 12 years of study and has passed the qualifying examination.

Curriculum – M.Sc., Applied Microbiology

Semester I

- Fundamentals of Microbiology & Microbial Physiology
- Medical Microbiology - I
- Basics in Immunology & Immunotechnology
- Microbial Genetics & Molecular biology
- Elective I: Skill based Elective
I (A) Bioinformatics
I (B) Cell Biology
I (C) Essentials of Laboratory Management and BioSafety
- Lab Course – I
- Industrial Visit
- Soft skill -I
- Certificate course - I

Semester II

- Food, Dairy & Industrial Microbiology
- Medical Microbiology - II
- Environmental Microbiology
- Elective II:
II (A) Research Methodology and Biostatistics
II (B) Life Sciences for Competitive Examinations
II (C) Marine Biotechnology
- Elective III:
III (A) Forensic Biology
III(B) Apiculture
III (C) Microalgal Technology
- Lab Course - II
- Soft skill –II
- Industrial Visit
- Internship
- Certificate Course - II

Semester III

- Recombinant DNA Technology
- Principles of Bioprocess Technology & Pharmaceutical Microbiology
- Elective IV:
IV (A): Bioinstrumentation
IV (B): Soil & Agricultural Microbiology
IV (C) Brewing Technology
- Elective V:
V(A): Nanobiotechnology
V(B): Fresh Water Conservation and Treatment Technologies
V(C): Clinical Research and Clinical Trials
- Interdisciplinary Elective VI:
VI (A) Biofertilizer Technology and Organic Farming
- Lab Course- III
- Industrial Visit
- Soft skill -III
- Certificate Course – III

Semester VI

- Entrepreneurship in Microbiology
- Elective VII:
VII (A) Aquaculture
VII (B): Nutrition & Dietetics
VII (C) Biodiversity and conservation
- Lab Course - IV
- Project/ Dissertation Viva – Voce
- Industrial Visit
- Soft skill -IV

Students can choose the elective from the pool of elective papers

Department offers Value added and Certificate course for Employability



Value added courses

HACCP Internal Auditor Training

ISO 22000 Internal Auditor Training

Indian and Global Medical Devices



State of Art Infrastructure

Excellent Placement

Why to DGVC Microbiology??

Bench Marked Curriculum

Inspiring Faculty

Mail us:

dgv.microbiology@yahoo.com

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+91 9094765608**

*PG and Research
Department of Microbiology
Dwaraka Doss Goverdhan
Doss Vaishnav College,
Chennai*