

J.J. College of Arts and Science (Autonomous), Pudukkottai

Programme Outcomes (2022 – 2023)

Department of Microbiology

B.Sc. Microbiology USMB	
Upon Completion of the course students would be able to	
PO1	Disciplinary Knowledge - Acquire detailed knowledge and expertise in all the disciplines of the subject.
PO2	Communication skills - Able to communicate scientific information, concepts, experiments and significance.
PO3	Ethical value - Apply knowledge on ethical and legal based issues
PO4	Analytical reasoning - Familiarize to collect, analyze and interpret scientific data.
PO5	Contribution to society - Solve public issues concerned with public health and safety for the welfare of the society.
PO6	Scientific reasoning - Solve problems understanding the issues, and find solutions, in day to day life.
PO7	Employability skill - Equip with skills, based on current trends and future expectations for career development and placements.
PO8	Entrepreneurial skill - Equip with skills and competency to become a successful entrepreneur.
PO9	Research related skill - Proficient skills and competence to make a prospective career in Research & Development.
PO10	Life long learning - Identify the need for skills necessary to be successful in future.
PO11	Instrumentation skill - Handle laboratory experiments following safety precautions and standards.


HEAD OF THE DEPARTMENT

Dr. P. JEEVAN, M.Sc., M.Phil., Ph.D
Head, Department of Microbiology,
J.J. College of Arts and Science (Autonomous)
J.J. Nagar, Sivapuram (Post),
Pudukkottai 622 422




PRINCIPAL

Dr. J. PARASURAMAN, M.A., M.B.A., M.C.A.,
M.Phil., B.Ed., Ph.D.
PRINCIPAL
J.J. College of Arts and Science (Autonomous)
J.J. Nagar, Sivapuram Post,
PUDUKKOTTAI - 622 422.

M.Sc. Microbiology PSMB	
Upon Completion of the course students would be able to	
PO1	Disciplinary Knowledge - Capable of demonstrating detailed knowledge and expertise in all the disciplines of the subject.
PO2	Communication Skills - Able to express thoughts, ideas, concepts, scientific information, experiments and its significance effectively in writing and verbal, communicate with confidence to different groups, using appropriate media.
PO3	Moral and Ethical Awareness - Ability to employ values in conducting one's life, use ethical practice at work, avoiding fabrication, misinterpretation and plagiarism, adhering to intellectual property rights and appreciate ethical solutions for environmental sustainability.
PO4	Analytical Reasoning - Ability to evaluate the reliability and relevance of evidence, identify flaws, analyze and synthesize data from different sources.
PO5	Contribution to Society - Solve public issues concerned with public health and safety for the welfare of the society.
PO6	Scientific Reasoning - Ability to identify, analyze, interpret and draw conclusions from qualitative and quantitative data, critically evaluate ideas, evidences and experiences, with an open mind and reasoned perspective.
PO7	Employability Skill - Equip with skills, based on current trends and future expectations for career development and placements.
PO8	Entrepreneurial Skill - To create efficient entrepreneurs by accelerating critical thinking, problem solving, decision making and leadership qualities to facilitate startups.
PO9	Research Related Skill - A sense of inquiry and capability for questioning, problem arising, synthesizing and articulating. Ability to recognize cause and effect relationships, define problems, formulate and test hypothesis, analyze, interpret and draw conclusions from data, establish hypothesis, predict cause and effect relationships, ability to plan, execute and report the results of an experiment or investigation.
PO10	Lifelong Learning - Identify the need for skills necessary to be successful in future, through self- paced and self - directed learning aiming at personal development, meeting economic, social and cultural objectives, adapting to changing trends and demands of work place.



PO11	Instrumentation Skill - Able to handle conventional and sophisticated instruments thereby acquiring employability skills.
PO12	Leadership Readiness and Qualities - Capability for building a team, identifying the tasks, setting direction, formulating an inspiring vision, employing skills to reach the right destination, smoothly.
PO13	Information/ Digital Literacy - Ability to use software for interpretation and analysis of data in a variety of learning situations.
PO14	Cooperation and Team Work - Ability to work effectively with diverse teams, facilitate cooperative or coordinated effort on the part of a group and act together as a group or as a team in the interest of a common cause and work efficiently as a member of a team.

HEAD OF THE DEPARTMENT

Dr. P. JEEVAN, M.Sc., M.Phil., Ph.D
Head, Department of Microbiology,
J.J. College of Arts and Science (Autonomous)
J.J. Nagar, Sivapuram (Post),
Pudukkottai 622 422



PRINCIPAL

Dr. J. PARASURAMAN, M.A., M.B.A., M.C.A.,
M.Phil., B.Ed., Ph.D.
PRINCIPAL
J.J. College of Arts and Science (Autonomous)
J.J. Nagar, Sivapuram Post,
PUDUKKOTTAI - 622 422.