



# DANTULURI NARAYANA RAJU COLLEGE

(Autonomous)

BHIMAVARAM, W.G.DIST, ANDHRA PRADESH, INDIA, PIN- 534202.

(Accredited at 'B<sup>++</sup>' level by NAAC)

(Affiliated to Adikavi Nannaya University, Rajamahendravaram)

## PROGRAMME SPECIFIC OUTCOMES (PSOS) FOR PG COURSES

### M.A. ECONOMICS

After successful completion of this programme the student will be able to

PSO	PROGRAMME SPECIFIC OUTCOMES	LEVEL
PSO1	Demonstrate a thorough understanding of microeconomic and macroeconomic theories, including their application to real-world economic phenomena.	L3
PSO2	Apply economic theory and empirical methods to analyze real-world economic issues across various sectors, such as finance, labor markets, international trade and development.	L4
PSO3	Design and Conduct independent research projects in economics, including defining research questions, collecting and analyzing data.	L5

### M. Com.

PSO	PROGRAMME SPECIFIC OUTCOMES	LEVEL
PSO1	Acquire skills in using technology and relevant software tools in commerce, such as accounting software, financial modeling tools, data analytics software, and e-commerce platforms.	L3
PSO2	Develop entrepreneurial skills and a mindset for innovation and creativity, enabling them to identify business opportunities, business plans, and manage entrepreneurial ventures effectively.	L5
PSO3	prepare for diverse career opportunities in various sectors including banking, finance, consulting, auditing, taxation, marketing, human resources, and entrepreneurship.	L5



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## MBA

PSO	PROGRAMME SPECIFIC OUTCOMES	LEVEL
PSO1	Analyze complex problems, think critically, identify strategic opportunities and threats, and make informed decisions to drive organizational success.	L4
PSO2	Acquire optimization techniques, branding strategies, product development and understand consumer behavior ,global markets and international trade regulations.	L3
PSO3	Develop an entrepreneurial mindset, business plans, ethical decision-making, creative solutions and navigate the challenges of starting and growing a business.	L5

## MCA

PSO	PROGRAMME SPECIFIC OUTCOMES	LEVEL
PSO1	Develop advanced programming skills, including proficiency in multiple programming languages, software development methodologies, and tools used in the industry.	L5
PSO2	Evaluate their professionalism, ethical responsibility, and awareness of legal and societal issues related to computing.	L5
PSO3	Apply their skills in project management, such as planning, scheduling, resource allocation, and risk management, to lead software development projects effectively.	L3



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## M.Sc. COMPUTER SCIENCE

PSO	PROGRAMME SPECIFIC OUTCOMES	LEVEL
PSO1	Analyze, Design, Test and Implement components, processes and solutions for specific application development using appropriate data modeling concepts and documentation.	L4
PSO2	Adapt and use appropriate modern software tools, resources and techniques to solve real-world problems within the framework of constraints.	L3
PSO3	Apply concepts of core computer science to build and manage solutions for enterprises.	L3

## M.Sc. ANALYTICAL CHEMISTRY

PSO	PROGRAMME SPECIFIC OUTCOMES	LEVEL
PSO1	Develop advanced laboratory skills, including the ability to design and execute experiments, handle sophisticated instrumentation, and analyze complex samples.	L5
PSO2	Apply skills to effectively communicate scientific findings and methodologies through written reports, oral presentations, and scientific publications.	L3
PSO3	Apply skills in project management, teamwork, and professional ethics to real-world scenarios encountered in academia, industry, government, or regulatory agencies.	L3



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## M.Sc. ORGANIC CHEMISTRY

PSO	PROGRAMME SPECIFIC OUTCOMES	LEVEL
PSO1	Develop advanced synthetic skills, including the ability to design and execute complex organic reactions, as well as multi-step organic synthesis.	L5
PSO2	Apply skills in project management, teamwork, and professional ethics to various career contexts within the field of organic chemistry.	L3
PSO3	Acquire skills to manage projects, collaborate in teams, and uphold professional ethics, preparing for careers in organic chemistry across academia, industry, government, or regulatory agencies.	L3

## M.Sc. BIOTECHNOLOGY

PSO	PROGRAMME SPECIFIC OUTCOMES	LEVEL
PSO1	Developing an ability to become specialist in various areas of biotechnology, knowledge of research, ability to crack entrance exams and competitive exams of biotechnology and employability in various sectors related to biotechnology.	L3
PSO-2	Demonstrate and apply knowledge of cell biology, biochemistry, microbiology and molecular biology in design, optimization, and simulation of bio process operations to solve the problems related to biotechnology and its application.	L4



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## M.Sc. MICROBIOLOGY

PSO	PROGRAMME SPECIFIC OUTCOMES	LEVEL
PSO1	Acquire basic microbiology laboratory skills and expertise in the use of instruments applicable to research, clinical methods and analysis of the observations.	L4
PSO2	Establish the role of microorganisms in human health, immune response to infection and antibiotic resistance.	L2
PSO3	Apply microbiological knowledge and skills to solve real-world problems in areas such as healthcare, food safety, environmental management, and biotechnology.	L3

## M.Sc. MATHEMATICS

PSO	PROGRAMME SPECIFIC OUTCOMES	LEVEL
PSO1	Develop problem-solving skills , abstract mathematical thinking and apply them independently to problems in pure and applied mathematics.	L5
PSO2	Apply knowledge of a wide range of mathematical techniques and application of mathematical methods/tools in other scientific and engineering domains.	L3
PSO3	Comprehend and write effective reports and design documentation related to mathematical research and literature, make effective presentations.	L2



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## M.Sc. PHYSICS

PSO	PROGRAMME SPECIFIC OUTCOMES	LEVEL
PSO1	Analyze scientific literature and experimental results to extract key information and identify patterns or trends.	L4
PSO2	Understand the basic principles and concepts behind interdisciplinary topics, including their significance and potential applications.	L2
PSO3	Analyze data collected from experiments to extract meaningful insights and draw conclusions based on scientific evidence.	L4

## M.Sc. AQUACULTURE

PSO	PROGRAMME SPECIFIC OUTCOMES	LEVEL
PSO1	Acquire skills in aquaculture techniques and practices, including breeding, feeding, water quality management, disease prevention, and sustainable production methods.	L3
PSO2	Design, implement, and manage aquaculture systems, pond systems, cage culture and integrated multi-trophic aquaculture systems.	L6
PSO3	Analyze the environmental impact of aquaculture operations by assessing various factors such as water quality parameters, waste management practices, and habitat conservation efforts.	L4