GOVERNMENT COLLEGE ROPAR

(Affiliated To Punjabi University, Patiala)



PROGRAMME OUTCOMES

Post Graduate Programme Outcomes-M.SC IT(LT) at Government College Ropar are outcome-based, with the following expected outcomes:

PO1	Critical Thinking and Problem-Solving Skills:Learners will
	gain advanced critical thinking and problem-solving abilities.
	They will be able to analyze complicated topics, assess
	evidence, examine many points of view, and develop novel
	solutions.
PO2	Advanced Knowledge and Expertise: Graduate programs aim
	to provide students with a deep understanding of their chosen
	field or specialization. Graduates will have acquired advanced
	knowledge, theories, methodologies, and skills specific to their
	area of study.
PO3	Research and Scholarly Abilities:
	Graduates will have the ability to design and conduct
	independent research, critically analyze existing literature, and
	contribute to the advancement of knowledge in their field.
PO4	Effective Communication: Focusing on developing strong
	communication skills. Students will be able to articulate
	complex ideas and research findings clearly and effectively,
	both in written and oral forms, to both specialized and non-
	specialized audiences.
PO5	Cross-Disciplinary Knowledge: Depending on the program,
	graduates may acquire cross-disciplinary knowledge, enabling
	them to integrate and apply concepts and methodologies from
	multiple fields to address complex problems and contribute to
	interdisciplinary collaboration.
PO6	Professional Ethics and Responsibility:emphasizing
	professional ethics, integrity, and social responsibility.
	Graduates will be equipped with ethical decision-making skills
	and an understanding of the social and ethical implications of
	their work.
DO7	Professional and Consen Development Providing students
PO7	Professional and Career Development: Providing students
PO/	with opportunities for professional development, including
PO/	
PO7 PO8	with opportunities for professional development, including internships, industry collaborations, and networking events.Adaptability and Lifelong Learning:Programs aim to
	with opportunitiesfor professional development, including internships, industry collaborations, and networking events.AdaptabilityandLifelongLearning:Programsaim to cultivate a growth mindset and a commitment to lifelong
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	 with opportunities for professional development, including internships, industry collaborations, and networking events. Adaptability and Lifelong Learning: Programs aim to cultivate a growth mindset and a commitment to lifelong learning. Graduates will be prepared to adapt to new challenges, acquire new knowledge, and continuously develop their skills

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PROGRAMME SPECIFICOUTCOMES M.SC.IT (Lateral Entry)

The M.SC.IT (LT) Government College Ropar is outcome-based, with the following PSOs required.

PSO1	Proficiency in Computer Science: Students will gain in-depth
	knowledge of computer science, including languages. They will
	understand the fundamental principles, laws, and theories
	governing these subjects and be able to apply them in practical
	applications.
PSO2	Solid Foundation in Mathematics: Graduates will have a
	strong understanding of mathematical concepts, including
	calculus, algebra, statistics, and numerical methods, providing
	them with a solid foundation for further study or careers in fields
	such as mathematics or computer science.
PSO3	Lab Techniques and Project Work: Learners will have
	practical experience in computerlabs, experimental design, data
	collection, analysis, and interpretation.
PSO4	Research Methodology: Graduates will have a good
	understanding of research methodologies and be able to design,
	analyze data, and draw meaningful conclusions.
PSO5	Problem-Solving and Critical Thinking: Graduates will be
	able to analyze complex problems, think critically, and apply
	logical reasoning.
PSO6	EffectiveCommunication :Effective communication is essential
	in the field of computer science, as it enables clear
	understanding, collaboration, and successful completion of
	projects. Here are some key aspects of effective communication
	in computer science:

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M.SC.IT(LT) SEM III				
Course Name		Course Outcomes		
Web Technology	CO1	HTML (Hypertext Markup Language) and CSS (Cascading Style Sheets), which are the foundational technologies for creating web pages and designing their visual appearance.		
	CO2	Web pages often require dynamic content and interactivity.		
Software Engineering	CO1	Software engineering involves implementing software solutions using programming languages and development tools		
	CO2	Software engineering involves managing software projects, including planning, organizing, and controlling project activities		
Java Programming	CO1	Java programming language syntax, including variables, data types, operators, control flow statements, classes, objects, methods, and exception handling.		
6	CO2	Java is an object-oriented programming (OOP) language, and studying Java programming will enable you to develop applications using OOP principles.		
L'all	CO3	Java provides robust exception handling mechanisms. Students will also understand best practices for exception handling and logging.		
Computer Networks	CO1	Students will gain a solid understanding of the fundamental concepts and principles of computer networks.		
	CO2	Students learn about firewalls, encryption, authentication, access control, and network security protocols.		

M.SC.IT(LT) SEM IV				
Course Name	Course Outcomes			
Computer Graphics	CO1 Students will gain a solid understanding of fundamental computer graphics principles, including raster graphics, vector graphics, image representation, color models, and rendering techniques.			
1	CO2 This includes knowledge of graphics APIs, shader programming, and rendering pipelines			
LINUX Administration	CO1 Students will gain a solid understanding of the Linux operating system, including its architecture, file system structure, command-line interface, and user management.			
	CO2 Linux administration heavily relies on command-line tools and utilities.			
Research Methodology	CO1 Students will gain a solid understanding of the research process, including the various steps involved in conducting research.			
7	CO2 Literature reviews are essential for understanding existing research and identifying research gaps.			
Artificial Intelligence	CO1 Students will gain a solid understanding of fundamental AI concepts, including machine learning, neural networks, natural language processing, computer vision, and robotics			
	9			