

PROGRAM LEARNING OUTCOMES (PLO)

M.Sc

PhD.

PLO 1 **Knowledge and Understanding**

Demonstrate in-depth and frontier knowledge in the related field.

Integrate significant knowledge by using appropriate approaches to address current critical issues and generate original and impactful contributions to the relevant fields.

PLO 2 **Cognitive Skills**

Apply knowledge critically and integratively to manage and solve complex problems using various techniques, tools or skills for the purpose of producing new ideas or innovative solutions.

Critically analyze and synthesize new, complex, and abstract ideas and solve contemporary issues through advanced research methods to produce original contributions that meet international standards.

PLO 3 **Practical Skills**

Demonstrate effective and innovative research skills by utilizing specialized research methods and the latest investigative techniques in the relevant field with minimal supervision.

Develop original, complex, and specialized research methods and techniques to address emerging problems and create high-quality solutions in the relevant fields with minimal supervision.

PLO 4 **Interpersonal Skills**

Demonstrate the ability to collaborate cogently with various parties in carrying out research.

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PLO 5 **Communication Skills**

Present research findings, ideas, issues and solutions clearly, confidently and effectively to the research community, peers and society.

Present knowledge, skills, ideas and research findings clearly using appropriate methods to various parties.

PLO 6 **Digital Skills**

Utilize appropriate digital technology and software to analyze and enhance research findings

Utilize digital technologies and appropriate software to support, enhance, and justify research findings.

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PLO 7 Numerical Skills

Use appropriate methods to analyze and evaluate data for the purpose of solving problems.

Validate findings by using analysis that is appropriate to the research methods to ensure that conclusions are accurate and impactful.

PLO 8 Leadership, Autonomy & Responsibility

Demonstrate leadership qualities and be responsible when collaborating with others in managing research

Exhibit intellectual leadership qualities and skills in managing research and related resources.

PLO 9 Personal Skills

Demonstrate commitment to lifelong learning and personal development in the relevant field.

Demonstrate commitment to lifelong learning and personal development in shaping future directions within the related field.

PLO 10 Entrepreneurial Skills

Apply entrepreneurial skills to identify opportunities and implement projects related to the field of research.

Apply entrepreneurial skills to identify opportunities and implement innovative projects in related research.

PLO 11 Ethics & Professionalism

Comply with safety rules and instructions, and demonstrate principles, professionalism, ethics, and sustainable practices in conducting research.

Comply with safety rules and instructions, ethics and professionalism, and sustainable practices as well as identify the related issues for research advancement in the field and their impact to society.