



**PP SAINS KIMIA  
PROGRAMME EDUCATION OBJECTIVES (PEOs) &  
PROGRAM LEARNING OUTCOMES (PLOs)**

**Bachelor of Science  
in Chemistry with Honours**

**Programme Educational Objectives (PEOs):**

In line with the mission of the School of Chemical Sciences, **Bachelor of Science in Chemistry with Honours** programme offers high-quality science education with the aim to produce:

**PEO 1**

Chemists who are able to apply the knowledge and practical skills acquired to improve the practice of chemistry in the public and private sectors.

**PEO 2**

Chemists who can integrate ethical and professional values in their professional and social relationships.

**PEO 3**

Chemists who can take on the roles of leaders and team members in providing solutions to chemistry-related issues and problems through effective communications with industry and society.

**PEO 4**

Chemists who are competent in digital and numerical skills and able to proactively acquire new knowledge to improve their skills in career advancement and demonstrate innovative resource and information management.

**Programme Learning Outcomes (PLOs): Upon completion of this programme, students will be able to:**

<b>PLO 1</b>	Knowledge (of the discipline)	Apply fundamental knowledge of chemistry to chemistry-related practices.
<b>PLO 2</b>	Cognitive Skills	Demonstrate critical thinking and provide practical solutions to chemistry-related issues by employing appropriate and relevant chemistry knowledge and skills.
<b>PLO 3</b>	Practical Skills (of the discipline)	Perform safe handling of chemicals and proficient manipulation of laboratory apparatus and analytical instruments.
<b>PLO 4</b>	Interpersonal Skills	Lead and collaborate with diverse team members and demonstrate social responsibility for the well-being of society.
<b>PLO 5</b>	Communications Skills	Demonstrate effective communication skills.
<b>PLO 6</b>	Digital Skills	Demonstrate effective digital skills.
<b>PLO 7</b>	Numeracy Skills	Demonstrate effective numerical skills.
<b>PLO 8</b>	Leadership, Autonomy and Responsibility	Demonstrate the ability to work autonomously, and show leadership and professionalism in managing different responsibilities.
<b>PLO 9</b>	Personal Skills	Manage information and seek new knowledge and skills independently.
<b>PLO 10</b>	Entrepreneurial Skills	Display relevant and appropriate managerial and entrepreneurial skills.
<b>PLO 11</b>	Ethics and Professionalism	Balance and uphold positive values, ethics and accountability in societal and professional engagement.