

| PILO Category  | Program Intended Learning Outcome (PILO)                                                                   | Alignment with Department Vision                                                           | Alignment with Department Mission                                                             |
|----------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| A. Knowledge   | <b>PILO-1:</b> Analyze complex computing problems and apply principles of computing to identify solutions. | Supports becoming a <b>pioneering research department</b> in data science & cybersecurity. | Enables students to <b>identify and address challenges</b> through modern academic programs.  |
|                | <b>PILO-2:</b> Design, implement, and evaluate computing-based solutions to meet requirements.             | Contributes to <b>dissemination of solutions</b> (data science & cybersecurity).           | Provides <b>standardized teaching/training</b> for practical problem-solving.                 |
| B. Skills      | <b>PILO-3:</b> Communicate effectively in professional contexts.                                           | Establishes the department as a <b>regional leader</b> through articulate graduates.       | Ensures students can present solutions clearly in a <b>pioneering academic environment</b> .  |
|                | <b>PILO-4:</b> Recognize professional responsibilities and make ethical judgments in computing.            | Reinforces <b>ethical research and practices</b> in cybersecurity & data science.          | Trains students to handle <b>cyberspace security challenges</b> with legal/ethical awareness. |
| C. Competences | <b>PILO-5:</b> Function effectively as a team member/leader in discipline-related activities.              | Supports <b>collaborative R&amp;D</b> in data science & cybersecurity.                     | Prepares students for <b>real-world teamwork</b> in academic/training programs.               |
|                | <b>PILO-6:</b> Apply security principles to maintain operations amid risks and threats.                    | Directly aligns with focus on <b>cybersecurity solutions</b> (local/regional impact).      | Ensures graduates can <b>address cyberspace security challenges</b> through modern training.  |