Enhancing irrigation performance and monitoring

This module addresses questions such as: what are causes of low performance (social, organizational, technical)? What are commonly proposed remedies (design and management options) to enhance efficient, productive, equitable and environmentally sound water use in irrigation? Do they work? Which practices can raise irrigation efficiency, produce more crop per drop? How can we adapt operation and maintenance to enhance irrigation performance? What tools are available to monitor and evaluate irrigation performance? It looks into causes of inequitable water distribution in irrigation systems and head-tail problems. In this module students critically assess proposed technical & management interventions in irrigation to remedy underperformance and adverse impacts on the environment. Students will analyze hydraulic design of flow control structures, sediment control measures, precision irrigation design and potential advantages & trade-offs. Lastly, students will learn how to use and interpret performance indicators to assess efficient, productive and equitable irrigation.