

Course ID	Course Description	Course Objectives
<p>ESCD 7410  <b>Cost Benefit and Cost-Effective Analysis</b></p>	<p>The purpose of the course is to introduce techniques of economic evaluation applied to health interventions and clinical decision making. Topics covered include: cost analysis, effectiveness measures, cost-effectiveness, utility measures and cost-utility analysis, benefits of health interventions and cost-benefit analysis. The course will discuss a number of case studies in clinical health economics to illustrate the use of economic evaluation techniques in the health sector. There are no prerequisites for the course but the students should be familiar with basic geometry, algebra and statistics.</p>	<ol style="list-style-type: none"> <li>1. Examine the use of cost-effectiveness in decision-making in clinical and non-clinical settings of healthcare systems.</li> <li>2. Analyze costs from the points of view of individual, health facilities, insurance agencies, government entities and from the societal perspectives.</li> <li>3. Examine the issues related to micro-costing and macro-costing; costs and charges, full economic evaluation and partial economic evaluation.</li> <li>4. Analyze and calculate the effectiveness of various types of health interventions: curative, preventive and promotive.</li> <li>5. Calculate and interpret the cost-effectiveness ratios for decision making and understand the use of willingness to pay in the choice of projects or programs.</li> <li>6. Analyze and calculate utility values of health outcomes and understand the use of utility values to obtain the benefits of health interventions.</li> <li>7. Calculate and interpret the cost-utility ratios in decision-making.</li> <li>8. Analyze and calculate the monetary benefits derived from health interventions. Examine the problems of estimating the monetary value of health benefits.</li> <li>9. Calculate the cost-benefit ratios of health interventions.</li> </ol>