

<p>OBJECTIVES — ►</p> <p>IE Department aims to prepare high quality industrial engineers to ensure that</p>	<p>Our graduates will effectively utilize their industrial engineering knowledge along with systems perspective and analytical creativity to aid in making decisions in manufacturing or service organizations.</p>	<p>Our graduates will function effectively in uni- and/or multi-disciplinary teams to design and manage systems in their professional domains while adhering to highest standards of professional and ethical conduct.</p>	<p>Our graduates will follow professional trends and update their knowledge to be able to participate in the solution of contemporary problems.</p>
<p>OUTCOMES ▼</p> <p>Industrial engineers graduated from the IE department at TEDU will</p>			
<p>1. comprehend concepts of mathematics and basic sciences (a1)</p>	<p>X</p>		
<p>2. be able to apply concepts of engineering (a2)</p>	<p>X</p>		<p>X</p>
<p>3. be able to design and conduct experiments (b1)</p>	<p>X</p>		
<p>4. be able to analyze and interpret data (b2)</p>	<p>X</p>	<p>X</p>	
<p>5. be able to design and/or improve a system, component, or process effectively by applying notions of optimality to meet desired needs (c)</p>	<p>X</p>	<p>X</p>	
<p>6. function in interdisciplinary teams through good working habits, time management, and self-discipline (d)</p>		<p>X</p>	
<p>7. be able to identify, formulate, and solve engineering problems and design alternatives (e)</p>	<p>X</p>	<p>X</p>	
<p>8. demonstrate professional and ethical responsibility (f)</p>		<p>X</p>	
<p>9. use an advanced level of English in interpersonal communication and self-development (g1)</p>		<p>X</p>	
<p>10. demonstrate effective communication skills (g2)</p>		<p>X</p>	
<p>11. be able to express a creative thought on and critical assessment of events and ideas in a global/societal context (h)</p>		<p>X</p>	<p>X</p>
<p>12. recognize the need for, and have an ability to engage in life-long learning (i)</p>			<p>X</p>
<p>13. be able to comprehend contemporary issues (j)</p>			<p>X</p>
<p>14. use the techniques, skills, and modern engineering tools necessary for engineering practice (k)</p>			<p>X</p>
<p>15. recognize and appreciate different cultures and respect individual and cultural differences (l)</p>		<p>X</p>	