

## AREA 1 : VISION, MISSION, EDUCATIONAL GOALS AND LEARNING OUTCOMES

ISSUE	ACTION
<p><b>Strengths of the HEP in meeting its goals</b></p>	<ol style="list-style-type: none"> <li>1. UTeM has a clear vision and mission supported by the educational goals.</li> <li>2. Practical and Application Oriented (PAO) approach in teaching, learning and research to foster innovative and creative culture.</li> <li>3. Offering accredited programs through quality curriculum structure to meet the Outcome Based Education (OBE) and Malaysian Qualification Framework (MQF).</li> <li>4. Implementation of seven (7) elements of Soft Skills recommended by MOHE that include communications, leadership, teamwork, entrepreneurship and lifelong learning.</li> <li>5. Integration of practical and experiments in each core subject/course.</li> <li>6. Engineering Practices and Final Year Project based on problem solving in addition to a longer Industrial Training (20 weeks).</li> <li>7. Focusing on applied research topics relevant to industries.</li> <li>8. Providing infrastructure and facilities that are conducive to the students' activities.</li> <li>9. Implementing ISO9001:2000 in Design and development of education program and provision</li> </ol>

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	<p>of education at undergraduate levels.</p> <p>10. Additional scheme for academic staff as Teaching Engineers to assist in conducting and developing teaching and research laboratories to impart the culture of professional practices in industries.</p>
<b>Areas of concern that need to be addressed</b>	<ol style="list-style-type: none"> <li>1. Budget constraint to acquire necessary equipment for laboratories.</li> <li>2. Infrastructure and facilities are not fully developed yet to meet the student requirements.</li> <li>3. The scheme of Teaching Engineer is not yet in place.</li> <li>4. Less experienced academic staff to implement the Soft Skills as required.</li> <li>5. The research culture at post graduate level has just began maturing especially with the lack of academic staff with PhD.</li> </ol>
<b>Strategies for maintaining and enhancing the strengths</b>	<ol style="list-style-type: none"> <li>1. Continual Quality Improvement (CQI) of PAO educational approach to include OBE/MQF with continuous implementation and monitoring of Soft Skills.</li> <li>2. Emphasizing on structured practical/experimental activities towards problem solving and design based experiments.</li> </ol>

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	<ol style="list-style-type: none"> <li>3. Optimization of budget utilization according to suit priorities.</li> <li>4. Encouraging R&amp;D activities relevant to industries amongst academic staff.</li> <li>5. Encouraging Teaching Engineer for industrial attachment program to get exposure in professional practices.</li> <li>6. Training and implementation of ISO/OBE/POA approach to new academic staff.</li> </ol>
<p><b>Steps that have been taken to address the problem areas</b></p>	<ol style="list-style-type: none"> <li>1. Apply additional budget for continuous development of facilities and laboratories.</li> <li>2. University need to follow up with relevant authorities in establishing proper scheme for Teaching Engineer immediately.</li> <li>3. Increasing the number of academic staff with PhD by sending more young lecturers as soon as possible and recruiting expatriates from overseas.</li> <li>4. Establishing and strengthening research clusters to beef up research activities with increasing enrolment of graduate students.</li> </ol>