

OBJECTIVES – OUTCOMES CONNECTIVITY MATRIX

FORM **C**

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| <p>OBJECTIVES — ►</p> <p>The Engineering Management Master’s Program aims to prepare high quality graduates who</p> | <p>will effectively utilize relevant technical and managerial tools in the solution of deterministic and stochastic engineering management problems of planning, control, decision making, innovation and entrepreneurship in production and service environments.</p> | <p>will understand relationships between the management and engineering tasks, follow technical and managerial trends, and update their knowledge to be able to participate in the solution of contemporary problems.</p> | <p>will function effectively in multidisciplinary teams to design and manage systems in their professional domains while adhering to highest standards of professional and ethical conduct.</p> |
| <p>OUTCOMES 7 ▼</p> <p>TEDU Engineering Management master graduates will have</p> | | | |
| <p>1. an ability to apply knowledge of mathematics, science, and relevant engineering methods in the solution of Engineering Management problems.</p> | X | | |
| <p>2. an ability to conduct experiments related to operations, and processes of management systems as well as to analyze and interpret data.</p> | X | | |
| <p>3. an ability to carry out the design of an operational system and its various components and processes for Engineering Management applications.</p> | X | | |

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| 4. an understanding the importance of teamwork, know how to develop effective teams and have an ability to function on inter-disciplinary teams. | | | X |
| 5. an ability to identify, formulate, and solve Engineering Management problems. | X | | |
| 6. an understanding of professional ethical responsibility. | | | X |
| 7. an ability to communicate effectively individually and in teams. | | | X |
| 8. the broad education necessary to understand the impact of engineering and enterprise solutions in a global and societal context and will have entrepreneurial skills to convert innovative ideas into products and services. | X | X | |
| 9. a recognition of the need for, and an ability to engage in life-long learning. | | X | |
| 10. knowledge of contemporary issues related to Engineering Management. | | X | |
| 11. have an ability to use the techniques, skills, and modern engineering tools necessary for managerial decision making practice. | X | | |