

## Program Educational Objectives – Program Learning Outcomes Connectivity Matrix

Program Educational Objectives Program Learning Outcomes	1) Solid foundations in computer engineering and computer science, essential for a successful career in academy, private sector or public sector; contribute to the research, development and production in computer engineering, computer science and related areas; competent in entrepreneurship, innovation and	2) Strong communication skills.	3) An ability to work independently, in multidisciplinary teams and will possess leadership skills.	4) An awareness of social responsibility and professional ethics, the legal consequences and the impact of information technology applications on individual, institutional, societal	5) Follow latest developments in science and technology with the awareness of the importance of personal and professional development and life long
1. An ability to apply knowledge of computing, mathematics, science and engineering	X				
2. An ability to design and conduct experiments, as well as to analyze and interpret experimental results	X				
3. An ability to design implement and evaluate a computer based system, process, component, or program to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability	X				
4. An ability to function on multidisciplinary teams		X	X		
5. An ability to identify, formulate and solve engineering problems	X			X	
6. An understanding of professional and ethical responsibility				X	X
7. An ability to communicate effectively		X	X		
8. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental and societal context				X	

9. A recognition of the need of and an ability to engage in life-long learning					X
10. Knowledge on contemporary issues					X
11. An ability to use the techniques, skills, and modern engineering tools necessary for computer science and engineering practice					X
12. Commitment to quality, timeliness, and continuous improvement					X
13. An ability to apply design and development principles in the construction of software systems of varying complexity	X		X		