NYIT Institutional and Program Learning Goal Alignment

Electrical & Computer Engineering

NYIT MISSION	NYIT LEARNING GOALS *By the time of graduation, NYIT students will be able, at the appropriate level (baccalaureate, masters or professional) to:*	ACADEMIC PROGRAM LEARNING GOALS **Baccalaureate Level BS Electrical & Computer Engineering**
Career Oriented Professional Education	Gain a coherent understanding of the knowledge, skills, and values of their discipline	a) an ability to apply knowledge of mathematics, science, and engineering (b) an ability to design and conduct experiments, as well as to analyze and interpret data.
Applications Oriented Research	Integrate academic and co-curricular learning to explore concepts and questions that bridge disciplines, professions, and cultures Formulate evidence-based and ethical courses of action or conclusions to address challenges and problems Engage with, respond to, and reflect on political, social, environmental and economic challenges at local, national, and global levels	(c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability. (e) an ability to identify, formulate, and solve engineering problems (h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context. (j) a knowledge of contemporary issues
Access to Opportunity	Achieve proficiency in oral and written communication, scientific and quantitative reasoning, critical analysis, technological competency, and information literacy Develop self-efficacy, professionalism, creativity, and an innovative spirit	(d) an ability to function on multidisciplinary teams (g) an ability to communicate effectively (i) a recognition of the need for, and an ability to engage in life-long learning (k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

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Other		