



# Bachelor of Science in Industrial Engineering Technology (IET)

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- Program Highlights:**
- a) Program based on algebra and trigonometry
  - b) Graduates lead teams as hands-on problem solvers
  - c) Knowledgeable in electronics, pneumatics, hydraulics, CNC, CAD
  - c) Can find employment in a wide-variety of industries
  - e) Capstone course gets you on the job before you graduate

**Program Overview:** The future jobs in the US will be won by problem-solvers who can show companies how to increase their productivity and profitability. Industries such as manufacturing, production, healthcare, banking, services, insurance, etc., all want to make their processes perform better. The ideal person to find employment in the above mentioned industries is a graduate with a degree in IET. With a degree in IET, you can lead teams in creating and maintaining optimum processes.

The IET program places emphasis on workplace skills in production and service systems improvement. Our society needs technologists who can apply math and science to operate and improve complex systems and operate and manage production facilities to produce complex products. Courses in calculus and differential equations required by most engineering programs are not necessary for the IET student as the curriculum is structured based on algebra and trigonometry.

**Program Description:** The IET program prepares individuals to apply basic engineering principles and technical skills in the improvement of processes in production and service environments. This includes instruction in process and productivity improvement, production line operations, inventory control, operations management, cost and capital project analysis, plant layout, work planning, quality systems, and statistical quality control.

Graduates also are well versed in the establishment of systems, systems analysis, electronics and instrumentation, computer-aided design and manufacturing, programmable logic controllers, electronics, hydraulic and pneumatic control systems, robotics, and automation. Graduates from this program are hired as industrial engineers/technologists, productivity improvement specialists, process and quality control engineers, and for overall management in manufacturing and service industries. The program employs an application-oriented hands-on approach to allow students to learn and practice skills in communications, teamwork, problem solving, management, and leadership. Knowledge of Lean manufacturing, Lean Enterprise and Six-Sigma are also corner-stones of the program. A capstone project is conducted in the final semester by students to validate the concepts learned. After successfully completing the capstone project, many students from the program are offered full-time employment where they have conducted the project.

**Employment Opportunities:** Graduates from this program are employed in manufacturing, healthcare, banking, and other service industries to contribute in functional areas of production, planning, facilities management, technical sales, operations, and other related areas. The wide appeal of the program is shown by the range of firms that have employed our graduates. IET graduates can set up a manufacturing or service business, manage projects of various kinds, conduct process improvement for various industries, and pursue a masters or a doctorate degree and professional certifications in project management, Lean manufacturing, and Six-Sigma.



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