Indiana State University

2006 - 2007 Academic Annual Report

Department of Electronics & Computer Technology

Vision Statement

<u>View/Modify Vision</u>

Below is your vision statement from previous years. Please take this opportunity to review it and if necessary update it.

To promote technology and assist in professional-career development at Indiana State University, the Department of Electronics and Computer Technology offers degree programs at the Graduate, Baccalaureate, and Associate level. These programs provide for the acquisition of requisite knowledge or skill for numerous fields of advanced technology, specifically in the areas of electronics and computer hardware technology. The Department of Electronics and Computer Technology offers on-campus and distance-delivery programs for undergraduate and graduate study. These programs assist students in the acquisition of requisite knowledge, skill and management experience for numerous areas of advanced technology. The Electronics Technology and Computer Hardware Technology programs at Indiana State University prepare individuals by providing knowledge and experiences intended to advance the technical expertise and competence in theory, design, and application in areas such as electronics, components and devices, microprocessors, high-power or electrical systems, personal computers, and remote sensing devices. Completion of a baccalaureate degree program will provide access to professional careers in Electronics Technology or Computer Hardware Technology.

Year in Review

<u>Accomplishments</u>

As you have heard, increasing public awareness of Indiana State University's accomplishments is crucial to building student enrollment, influencing policy makers, and developing a place of pre-eminence in the Midwest. What do you consider to be your department's accomplishments for the 2006-2007 year that will contribute to this effort? [Please list in priority order and limit to no more than 8.]

1. The ECT Dept. recently completed a multi-year review of its Computer Hardware Technology program. Revisions were submitted to the University to change this degree program to a Computer Engineering Technology program. 2. The ECT Dept. received full accreditation for its undergraduate programs from the accrediting body, National Association of Industrial Technology. 3. Two professors in the ECT Dept. were named Promising Scholars.

<u>Research and Scholarship</u>

What is your assessment of accomplishments in the area of research and scholarship that is focused primarily on contributions to practice and discipline-based scholarship? Are you satisfied overall? In which areas do you feel your department does particularly well? In which areas do you feel your department needs to improve?

The ECT Dept. continues to expand its role in the area of applied research. Mini-grants have been obtained by faculty. Two professors have been name Promising Scholars. At this point, I am satisfied with the production of scholarly activity by the Faculty. The Faculty have large class and contact hour loads while trying to pursue these types of activities.

<u>Grants, Contracts & Off Campus Professional Service</u>

What is your assessment of accomplishments in the area of grants, contracts, and off campus professional service? Are you satisfied overall? In which areas do you feel your department does particularly well? In which areas do you feel your department needs to improve?

Production in this area by ECT faculty continues to expand. I believe the Department is moving to become more and more productive in this area. In particular, our Department is doing well in the mini-grant area and off-campus consulting along with applied research with graduate students. Our Department will work to improve its contributions by continuing to offer services to industries across the state and also will work to garner more support from outside grant agencies.

<u>Teaching</u>

We would like to highlight innovative approaches to teaching. Has your department developed any pedagogies or practices you'd like to share with us? Please describe briefly.

<u>Course Scheduling/Enrollment Management</u>

How is the department making sure that students are able to get the classes they need to graduate in a timely manner?

1. The ECT Department publishes a curriculum guide sheet for majors. 2. The ECT Department publishes a 4-year plan for students that lists a typical course and year sequence. 3. The ECT Department maintains a yearly listing of course offerings.

<u>Outreach</u>

What are the outreach opportunities for your discipline? (non-traditional modes of delivery and timing, etc)

1. The ECT Department has developed and offers all of its 3rd and 4th year via web so that distance-based students who already have an Associate of Science degree in Electronics Technology can enroll in our B.S. degree completion program. 2. The ECT Department offers a master's program via distance education. 3. The ECT Department faculty participate in the Ph.D in Technology Management through regularly offered distance-based courses.

Strategic Initiatives

<u>Community Engagement I</u>

Please summarize your faculty's efforts in community engagement this year.

Delivered training tutorial and hands-on experience to Upward Bound program for High School students. Delivered training tutorial and hands-oon eperience on the topic of automation to Chauncey Rose Middle school students. Participated in TECH TREK.

Quality

<u>Quality</u>

Please provide 1-2 suggestions to increase the ability of your department or the University to meet the criteria above.

The ECT Dept. is presently working on a new Assessment Plan. We believe one of the benefits of the Assessment Plan will be to maintain/increase quality. The ECT Dept. has initiated a

review/revision of its Electronics Technology program. This review/revision is an extension of recognized need for review by faculty, students, and advisory board.

Feedback

This section is to allow you to share your ideas for enhancing enrollment, dealing with budget and other challenges facing the university community.

Enrollment issues are challenging. The Department has initiated a campaign to increase enrollments by contacting high schools and high school technical educators. Technical education is expensive; however, to attract technical students requires more than investment in faculty and facility space, it requires an investment in equipment and resources that these students find interesting and useful to their chosen fields of study.