



## Program Assessment Report (PAR)

Electrical Engineering (EE) Doctoral Degree

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ACADEMIC YEAR COVERED BY THIS REPORT: [AcademicYear]

### I. PROGRAM LEARNING OUTCOMES

The Doctorate of Philosophy is the highest degree awarded by Wright State University. This pinnacle academic credential signifies a mastery of a body of skills and knowledge in preparation for a career as an independent and productive scholar. Doctoral training involves working closely with faculty on significant technological challenges of importance and mutual interest. Program Educational Objectives or goals 1. Graduates of the Ph.D. in E.E. degree shall have the ability to conduct novel research in the field of electrical engineering and generate archival conference and journal publications.

Assessment Team Members • Graduate Studies Committee, Department of Electrical Engineering

Alignment of program goals to course outcomes

Program Goal	Course Number	Course Outcome
Independent Research	EE 8990	Novel research contributions

### II. PROCEDURES USED FOR ASSESSMENT

#### A. Direct Assessment

Assessment Schedule	Program Goal	Data Collection	Term Review	Term	Annually
Annually	Course outcomes to assignment	Course Number	Course Outcome	Assignment Title	EE 8990 Novel research contributions
					Submission of at least 1 journal paper manuscript
					Collection of student artifacts
					Term Class Collection Method
					Annually EE 8990 Survey of faculty with Ph.D. student graduates

#### B. Scoring of Student Work

Each of the following student work is evaluated by their dissertation committee with a pass/fail outcome.

- Candidacy Exam
- Each Ph.D.-EE student is required to

pass a Qualifying exam to become a Ph.D. candidate. The Qualifying (or Candidacy) exam consists of written exam and oral presentation. • Research Proposal As a Ph.D. candidate, each student is required to independently prepare and defend a novel research plan to advance the state of the art in a particular Electrical Engineering field. Each EE Ph.D. candidate is required to submit annual Progress report that is reviewed and approved by the candidate's Ph.D. dissertation Committee. • Dissertation Defense Each student must demonstrate independent research capability by defending their Ph.D. dissertation. In addition, each student must present results in a conference and submit a journal paper based on the dissertation research.

### **C. Indirect Assessment**

N/A

### **III. ASSESSMENT RESULTS/INFORMATION:**

EE 8990 Novel research contributions

Course learning outcome achieved. No concern is raised.

Submission of at least 1 journal paper manuscript

### **IV. ACTIONS TO IMPROVE STUDENT LEARNING**

The assessment report was shared with the graduate program committee. The committee will discuss improving and implementing new indirect measures such as an exit survey of Ph.D. students.

### **V. SUPPORTING DOCUMENTS**

Additional documentation, when provided, is stored in the internal Academic Program Assessment of Student Learning SharePoint site.