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 production ability 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.