

Credits\_\_\_\_\_ Course Grade\_\_\_\_

## Academic Year 2017-18 Certificate in Electric Power Engineering (CEPE) Department of Electrical and Computer Engineering

**Credits Required: 13** 

|  | Student Name and ID Number |                             |                             | Completion Term |  |
|--|----------------------------|-----------------------------|-----------------------------|-----------------|--|
| ✓ Certificates are offered to post-degree undergradu                                   | uate students who          | have previously complete    | ed a Bachelor's degree.     |                 |  |
| ✓ Students must earn a grade of C or better in each of                                 | course used to me          | et certificate requirement  | ts.                         |                 |  |
| ✓ Students must complete at least nine credits of up                                   | per division course        | e work (3000-level or abo   | ve) and at least half of    |                 |  |
| the total credits required must be taken at Michig                                     | gan Tech.                  |                             |                             |                 |  |
|  |                            |                             |                             |                 |  |
| Required Courses: 7 credits  |                            |                             |                             | Credits         |  |
| EE 4221 Power System Analysis I (3)  |                            |                             |                             |                 |  |
| EE 4222 Power System Analysis II (3)   |                            |                             |                             |                 |  |
| EE 4226 Power Engineering Lab (1)  |                            |                             |                             |                 |  |
|  |                            |                             |                             |                 |  |
| Electives: Select 6 credits minimum  |                            |                             |                             | Credits         |  |
| EE 3010 Circuits and Instrumentation (3)   |                            |                             |                             |                 |  |
| EE 3120 Electric Energy Systems (3)  |                            |                             |                             |                 |  |
| EE 4219 Intro to Electric Machinery and Drives   | (3)                        |                             |                             |                 |  |
| EE 4220 Intro to Electric Machinery and Drives   | Lab (1)                    |                             |                             |                 |  |
| EE 4227 Power Electronics (3)  |                            |                             |                             |                 |  |
| EE 4228 Power Electronics Lab (1)  |                            |                             |                             |                 |  |
| EE 4295 Intro to Propulsion Systems for Hybrid   | l Electric Vehicle         | es (3)                      |                             |                 |  |
| EE 5223 Power System Protection (3)  |                            |                             |                             |                 |  |
| EE 5224 Power System Protection Lab (1)  |                            |                             |                             |                 |  |
| EE 5230 Power Systems Operations (3)   |                            |                             |                             |                 |  |
| EE 5250 Distribution Engineering (3)   |                            |                             |                             |                 |  |
| EE 4800* Special Topics in Electrical Engineerin                                       | ng (variable)              |                             |                             |                 |  |
| EE 5200 Advanced Methods in Power Systems  | (3)                        |                             |                             |                 |  |
| EE 5220 Transient Analysis Methods (3)   |                            |                             |                             |                 |  |
| EE 5240 Computer Modeling of Power Systems   | s (3)                      |                             |                             |                 |  |
| *EE4800 must be power related and receive specific approval from the academic advisor. |                            | Total Credits Required = 13 |                             |                 |  |
| *EE4800 must be power related and receive specific appro                               | oval from the acad         | emic advisor.               | Total Credits Required = 13 |                 |  |
| Student Signature I  | Date                       | Academic Advisor Signature  |                             | Date            |  |
|  |                            | e Registrar's Office for p  |                             |                 |  |

\_\_\_ Residency\_\_\_\_\_ Upper Division\_\_\_\_\_ Courses not double counted\_\_\_\_\_ Term Awarded\_\_