**Michigan Technological University**
**Certificate in Electric Power Engineering**
Program Code CEPE, Academic Year 2024-25
Department of Electrical and Computer Engineering
Total Credits Required: 13

Student Name and ID Number _____ Completion Term_____

Certificates are offered to post-degree undergraduate students who have previously completed a Bachelor degree. Students must earn a grade of C or better in each course used to meet certificate requirements, and must complete at least 9 credits of upper division course work (3000- level or above), and at least half of the total credits required must be taken at Michigan Tech.

Highlight or circle the courses taken to complete certificate requirements and submit the completed form to the Registrar's Office

**Required Courses: 7 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**

- 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 Electric Vehicles (3)
- EE 5223 Power System Protection (3)
- EE 5224 Power System Protection Lab (1)
- EE 5230 Power Systems Operations (3)
- EE 5232 Power System Optimization (3)
- EE 5250 Distribution Engineering (3)
- EE 4800 Special Topics in Electrical Engineering (variable credit; course must be power related and receive special approval from the academic advisor)
- EE 5200 Advanced Methods in Power Systems (3)
- EE 5220 Transient Analysis Methods (3)
- EE 5240 Computer Modeling of Power Systems (3)

Registrar Office Use Only:

| Credits | Course Grade | Residency | Upper Division | Double Counted Courses | Awarded Term |
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