# Assignment 3

**End date:** 15-07-21, 23:59 GMT

## Course outline

<table>
<thead>
<tr>
<th>Unit 4</th>
<th>Week 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>Assignments</td>
</tr>
<tr>
<td>05-07-21</td>
<td>3. Calculating steady current in a wire for 12V.</td>
</tr>
<tr>
<td>05-07-21</td>
<td>4. Calculating steady current in a wire for 12V.</td>
</tr>
</tbody>
</table>

### Due Dates

- **Assignment 3:** Due 15-07-21, 23:59 GMT

### Syllabus for Assignments

**1. Calculating steady current in a wire for 12V.**

- Calculate the steady current in a wire for 12V.

**2. Calculating steady current in a wire for 12V.**

- Calculate the steady current in a wire for 12V.

### Assessment Criteria

- Students must demonstrate understanding of the basic principles of electricity and circuit analysis.
- The assignment will be graded based on the accuracy of the calculations and the ability to apply the correct formulas.

### Instructions

- Students are required to submit their assignments online by the due date.
- Late submissions will be penalized.
- Collaboration is allowed, but each student must submit their own work.

---

**Notes:**

- Use the provided formulas and concepts from the course lectures.
- Show all your working and calculations clearly.
- Submit your assignment as a single PDF file.

---

**Questions & Answers**

1. **Question:** What is the formula for calculating steady current in a wire?

   **Answer:** The formula for calculating steady current in a wire is given by $I = V/R$, where $I$ is the current, $V$ is the voltage, and $R$ is the resistance.

2. **Question:** Why is it important to calculate steady current in a wire for 12V?

   **Answer:** Calculating steady current in a wire for 12V is important for ensuring the electrical safety and efficiency of the system. It helps in determining the maximum current that can be safely drawn from the source without overheating the wires.

---

**Notes:**

- Always double-check your calculations and formulas.
- Use appropriate units when submitting your answers.
- If you have any questions or concerns, feel free to ask your instructor.

---

**Submission Instructions**

- Before submitting your assignment, ensure that all pages are clearly visible and legible.
- Submit your assignment via the course's online platform.
- Follow the specific submission guidelines provided by the instructor.