Unit 1 - How does an NPTEL online course work?

**Assignment 0**

The assignment is compulsory and its assessment is as follows:

- **Marking Criteria**:
  - Project Report: 3 points
  - Report: 3 points
  - Quiz: 1 point

**Due Date**: 2007-07-12, 22:59 IST

---

1. What is a photovoltaic cell?
2. What is the principle of operation of a photovoltaic cell?
3. What is the efficiency of a photovoltaic cell?
4. What is the maximum power point of a photovoltaic cell?
5. What is the effect of temperature on the power output of a photovoltaic cell?
6. What is the effect of sunlight intensity on the power output of a photovoltaic cell?
7. What is the effect of solar cell temperature on its efficiency?
8. What is the effect of sunlight intensity on the power output of a photovoltaic cell?
9. What is the effect of solar cell temperature on its efficiency?
10. What is the effect of sunlight intensity on the power output of a photovoltaic cell?

---

**Notes**:

- **Introduction to photovoltaic cells**
- **Operation of photovoltaic cells**
- **Efficiency of photovoltaic cells**
- **Maximum power point of photovoltaic cells**
- **Effect of temperature on the power output of photovoltaic cells**
- **Effect of sunlight intensity on the power output of photovoltaic cells**
- **Effect of solar cell temperature on its efficiency**
- **Effect of sunlight intensity on the power output of photovoltaic cells**
- **Effect of solar cell temperature on its efficiency**
- **Effect of sunlight intensity on the power output of photovoltaic cells**

---

**Questions**:

1. What is the meaning of the term "photovoltaic"?
2. What is the difference between a solar cell and a photovoltaic cell?
3. What is the role of the photovoltaic cell in a solar power system?
4. What are the advantages of using photovoltaic cells in power systems?
5. What are the disadvantages of using photovoltaic cells in power systems?
6. What is the potential of photovoltaic cells in future energy systems?
7. What are the current technologies used in photovoltaic cell manufacturing?
8. What are the future technologies being developed for photovoltaic cell manufacturing?
9. What are the challenges faced in the development of photovoltaic cells?
10. What are the benefits of using photovoltaic cells in remote areas?