Lesson Plan for Power Plant Engineering

Instructor: Tushar Kanti Sarker

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| Chapter name | Number of period | Outcome | Selected topics | Number of topics covered | Remarks |
| Hydroelectric power plant | 3 | After the class the student are able to know how hydroelectricity is produced? | 5.1 What is hydro electricity? | 1 | Students should bring calculator during mathematical problem solving session. |
| 5.2 How electricity is produced? | 2 |
| 5.3 Factors affecting hydroelectricity. | 3 |
| 3 | After the class the student are able to know the components of hydroelectric power plants and its working principle | 5.4 Components of hydroelectric power plant. | 4 |
| 5.5 Various types of dams. | 5 |
| 5.6 Various types of turbines and mathematical problems. | 6 |

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| Institute name : Gopalganj Polytechnic Institute  Teacher: Tushar Kanti Sarker  Semester: 5th  Total students: 60 | | | | Subjects name: Power Plant Engineering  Chapter name: Hydroelectric Power Plant  Lesson: 5.1  Time 50 minutes | | | |
| Outcome:  After ending the lesson the student will know:   1. How hydroelectric power plant works? 2. Components of hydroelectric power plant. | | | | Preparation:  Collecting images and data related to hydroelectric power plant | | | |
| Time | Interaction with students:   1. Do you know how electricity is produced? 2. Have you ever visited to Kaptai hydroelectric power plant? | | | | | | |
| 5 minutes |
| Time | Distributed outcome | Work (Teacher) | Work(Students) | | Method of teaching | Equipments | Remarks |
| 20 minutes | Components of hydroelectric power plants | Describing the components with example | Listening and following teacher’s instructions | | Discussion and presentation | Whiteboard and projector | Decide according to situation |
| 20 minutes | Working principle of hydroelectric power plants | Discussing the layout and working principle | Listening and following teacher’s instructions | | Discussion and presentation | Whiteboard and projector | Decide according to situation |
| 2 minutes | Summarising the lesson | Components and working principle of hydroelectric power plant | | | | | |
| 1 minute | Home task | Identifying the components of hydroelectric power plant | | | | | |
| 2 minutes | Next day’s plan | Details study of components | | | | | |
| Self evaluation | Solving arised problems | | | | | | |

