|  | University of Dhaka |  |
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| **Institute of Information Technology (IIT)** |
| Bachelor of Science in Software Engineering (BSSE) |

| **Course:** | **SE 506 Design Patterns** |
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| **Lab 01:** | **Implementation of Factory Method Pattern** |

Consider a software system that needs to handle the creation of different types of *devices*—such as *Smartphone*, *Tablet*, and *Laptop*—each with distinct properties, behaviors, and mandatory *powerOn* and *powerOff* method. You must implement the **factory method pattern** to instantiate new devices.