Workshop on Java & Hibernate

Topic	Session on "Java & Hibernate" by Bhavdeep Sabharwal, Java Consultant, DUCAT
Month and Date	September 26, 2013
Aim of the activity	The aim of the event was to acquaint all students with the idea & understanding of Java and its framework, database connectivity, ORM Tool, Hibernate and Hibernate Query Language.
Description of the Event	The session started with a small felicitation ceremony for Mr. Bhavdeep Sabharwal, Java Consultant, DUCAT.The lecture initiated with a discussion about Object Oriented Concepts in Java, its architecture, application and uses. Sir explained that Hibernate is an object-relational mapping (ORM) library for the Java language which provides a framework for mapping an object-oriented domain model to a traditional relational database. He also said that Hibernate solves object-relational impedance mismatch problems by replacing direct persistence-related database accesses with high-level object handling functions. It provides transparent persistence for Plain Old Java Objects (POJOs). The only strict requirement for a persistent class is a no-argument constructor, not necessarily public.

Then sir went on to tell that Hibernate Query Language (HQL) is an SQL inspired language. He said that it allows SQL-like queries to be written against Hibernate's data objects. He also told that Criteria Queries are provided as an object-oriented alternative to HQL. Criteria Query is used to modify the objects and provide the restriction for the objects.

Sir also discussed about struts as a web application frame work for JAVA. He quoted that "Struts separate the model (application logic that interacts with a database) from the view (HTML pages presented to the client) and the controller (instance that passes information between view and model). Struts provides the controller (a servlet known as ActionServlet) and facilitates the writing of templates for the view or presentation layer (typically in JSP, but XML/XSLT and Velocity are also supported)".

Sir explained each and every topic in detail and in a brilliantly simple manner. During his presentation, he made many programs to get better knowledge to audience about many topics like client server application, oracle database connectivity, hibernate etc.

The session proved a key to enhance our skills and grow up as IT professionals. The speaker explained many things in detail and handled all the queries with expertise. It was a great learning experience indeed.