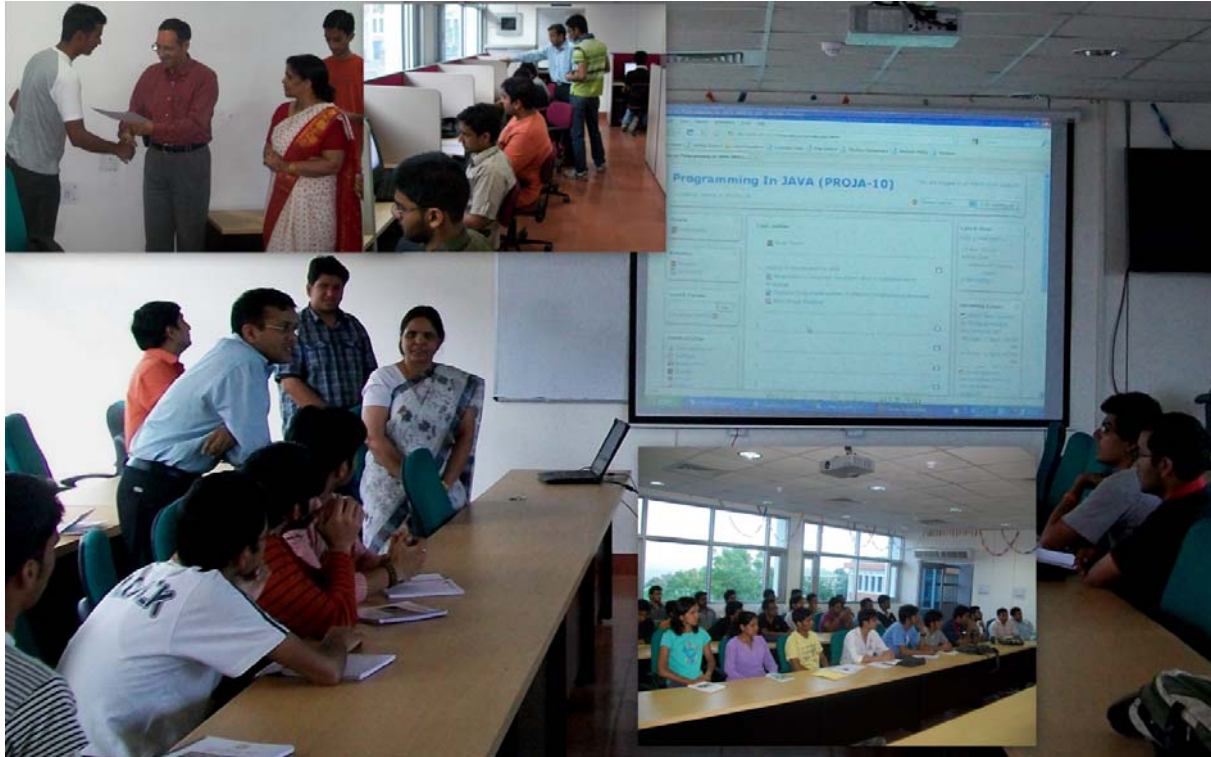


PROGRAMMING IN JAVA “PROJA-10”

5th to 9th April, 2010



A 5-day long course “**PROJA-10**” was organised by the Computer Centre for the students of NIT Hamirpur from 5th to 9th April, 2010 at the Computer Centre. The course was conducted in two sessions daily: one theory and one practical session. Participants were assisted by M.Tech first year students during lab sessions throughout the course. A total of 45 students attended the course.

DAY 1

The first day of the course started with the introductory lecture on JAVA by the course coordinator Dr. (Mrs.) Kamlesh Dutta. The lecture outlined the various features of the JAVA language and its usage in various fields of technology. The benefits of being good in JAVA programming were also highlighted. Besides, the participants were briefed about the details of the course and the topics that were to be covered during the five days.

The second lecture was delivered by Mr. Suneet Gupta, course co-coordinator. He covered the basic concepts of Object-Oriented Programming and how they are implemented in JAVA. An insight into JAVA Virtual Machine was given afterwards. Lecture also covered basic datatypes, variables etc. with a basic Java program.

Lab Session: Participants made a basic “Hello World” java program and other programs related to mathematical arithmetic operations.

DAY 2

Mr Suneet Gupta lectured the session. Participants were made familiar with I/O methods and how to them use in JAVA applications. This included the use of buffering, streams and concept of scanners in JAVA.

Lab Session: Simple programs that required user input during runtime were implemented. Others set of programs implemented file input-output streams.

DAY 3

Day 3 session began with the introduction to Applets by Mr. Avtar Singh. The session continued with Applet design and adding several components in it. Besides, the concept of Inheritance was also discussed.

Lab Session: Participants created simple applet programs.

DAY 4

Mr. Suneet Gupta gave lecture on Graphical User Interface programming using java.awt.* package, which included creation of frames and adding panels, buttons, textarea etc. to it. Furthermore, an insight was provided into JAVA Interfaces, Packages and Run-Time polymorphism.

Lab Session: A basic GUI was created by the participants using various JAVA packages and a simple program related to demonstration of access control.

DAY 5

Day 5 session started with the introduction to Socket programming. Mr. Vikram Dhiman delivered a lecture about various java.net packages and how they can be used in programs for communication over a network. A simple client-server program was also demonstrated as an example of socket programming.

After this lecture, the guest speaker, Mr. Gaurav Vashist, Computer Scientist, Belzabar Software, Noida, had an interactive session with the participants. He discussed about the various uses of JAVA in industrial and commercial projects, and encouraged the participants to start working on JAVA projects. He also suggested some projects that can be beneficial to the society and can be implemented in JAVA.

Felicitation ceremony:

The 5-Day long course concluded with the felicitation ceremony. Honourable Director Sir, Prof. I.K. Bhat distributed the certificates to the participants and the faculty members wishing them good luck for their coming future.