

**Centre for Open and Distance Learning (CODL)
Sabaragamuwa University of Sri Lanka**

CERTIFICATE IN ADVANCED JAVA PROGRAMMING

Introduction

The Sabaragamuwa University of Sri Lanka (SUSL) has the unique capability of catering to the higher educational needs of the Sabaragamuwa and Uva provinces. One of the prime objectives of the University is to fulfill these needs of the community. It is a common understanding that the residents in these provinces have a severe lack of access to computer facilities and hence, less opportunities, to improve their computer skills.

It provides the opportunity to improve and develop programming & designing skills needed in a number of professional situations. The course will mainly emphasize on theory and practical aspects of the Programming, Designing and Application Developments.

Objective of the course

School leavers, undergraduates and graduates are desperately in need of good Computer literacy, programming & designing skills etc, to be competitive in the job market. Further, those who are employed, have the need to improve their general computer knowledge to meet the professional demands of their career.

In order to fill this vacuum, the Extension service Unit of the Sabaragamuwa University has decided to offer a Certificate Courses in Advanced Java Programming course, according to the Sri Lanka Qualifications Framework (SLQF) –Level-01 and 30 credits.

Learning outcome of the course

After the completion of the course students will be able to acquire their knowledge in programming skills, designing and develop Web programming with Android Applications.

Duration

The course duration is six months (26 weekend's part time). Classes would be held in Saturday (8.30 a.m. to 4.30 p.m.)

Medium of the Course

English/Sinhala

Eligibility

G.C.E (O/L) or above or any other qualifications accepted by the University

Course Fees

Application Fee:	Rs. 500.00
Course Fee:	Rs. 15,000.00 for each course

Participants can pay the course fee in two installments as follows.

At registration	Rs. 9,000.00
Within five months	Rs. 6,000.00

Course Content

CERTIFICATE IN ADVANCED JAVA PROGRAMMING (30 credit course)

- Introduction to Java
Contents, Context, The philosophy, Features, Applet & Applications, Java Application
- Fundamental of Java Language
Statements, Keywords, Data Types, variables, Literals, Operators
- Looping structures
For loop, While loop and do while loop
- Array
Array in Java, Defining arrays, Accessing arrays, Operations with arrays
- Object oriented programming in Java
Inheritance, Abstract Class, Polymorphism, Exceptions in Java, Constructors
- Drawing Graphics with AWT
Java Applets
- Introduction to HTML and Applet, Implementing the Applet, Compiling and Running an Applet
Paint() method, init () method, start(), stop(), destroy()
- Database connectivity using MySQL/SQL
- Input /Output in java
- Threads threads methods, Introduction to Networking in Java
- Introduction to Web Programming : Servlets and
- Introduction to Java EE (MVC/Spring/ Hibernate)
- Introduction to Android applications
- Final Project

Lecturing Staff

University Academic Staff

Course Coordinator

Mr. M.D.C. De. S. Jayathilake

Coordinator, Certificate in Advanced Java Programming

Centre for Open & Distance Learning

Sabaragamuwa University of Sri Lanka, P.O. Box 02, Belihuloya, 70140.

Administration

Director

Centre for Open & Distance Learning

Sabaragamuwa University of Sri Lanka, P.O. Box 02, Belihuloya, 70140.

The Students have to correspond with the office of Director / Centre for Open and Distance Learning, for registration, examination and relevant administration work.

Contact Address

Director / Centre for Open and Distance Learning

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