

**Java ME (J2ME)**  
**Upgrade for Java Programmers Course Content**

**Overview of J2ME**

- ❖ JavaME (J2ME) Upgrade for Java Programmers Course
- ❖ Introduction
- ❖ Understand the differences between J2ME and other versions of Java, namely J2SE (standard client-side Java), and J2EE (enterprise Java).  
Understand the environments, and their limitations, in which J2ME runs.

**J2ME components:**

- ❖ KVM
- ❖ CLDC
- ❖ MIDP
- ❖ Personal Java
- ❖ Overview of profile system Architecture and Midlets.
- ❖ Understand & Create Midlets (Applets for Mobile Devices).
- ❖ Deploy and test Midlets.
- ❖ Differences between J2ME environment

**MIDP 2.0**

- ❖ Mobile information device profile
- ❖ Creating MIDP applications
- ❖ Midlet suites
- ❖ Midlet deployment

**MIDP 2.0 GUI**

- ❖ Graphical User Interfaces with MIDP
- ❖ Displays, Commands, Pointers, Screens
- ❖ Animations and drawing

**Threading and Synchronization**

- ❖ Threading
- ❖ Creating Threads in Java
- ❖ Synchronization

**J2ME Capabilities**

- ❖ Streamed IO
- ❖ Socket IO (TCP/IP)
- ❖ J2ME IO
- ❖ Networking with HTTP
- ❖ RMS (Record Management System)

**Connectivity**

- ❖ SMS
- ❖ Bluetooth
- ❖ IrDA - Infrared Data Adapter
- ❖ Networking
- ❖ Push Registry

**APIs**

- ❖ MMAPI - JSR 135
- ❖ SIPAPI - JSR 180
- ❖ Game API