**Core Java Syllabus**

**Core Java**

**Basics of Java**

http://training.javatpoint.com/images/check.pngJava - What, Where and Why?   
http://training.javatpoint.com/images/check.pngHistory and Features of Java   
http://training.javatpoint.com/images/check.pngInternals of Java Program  
http://training.javatpoint.com/images/check.pngDifference between JDK,JRE and JVM   
http://training.javatpoint.com/images/check.pngInternal Details of JVM   
http://training.javatpoint.com/images/check.pngVariable and Data Type  
http://training.javatpoint.com/images/check.pngUnicode System   
http://training.javatpoint.com/images/check.pngNaming Convention

**OOPS Concepts**

* Advantage of OOPs  
  http://training.javatpoint.com/images/check.pngObject and Class  
  http://training.javatpoint.com/images/check.pngMethod Overloading  
  http://training.javatpoint.com/images/check.pngConstructor  
  http://training.javatpoint.com/images/check.pngstatic variable, method and block   
  http://training.javatpoint.com/images/check.pngthis keyword  
  http://training.javatpoint.com/images/check.pngInheritance (IS-A)  
  http://training.javatpoint.com/images/check.pngAggregation and Composition(HAS-A)  
  http://training.javatpoint.com/images/check.pngMethod Overriding  
  http://training.javatpoint.com/images/check.pngCovariant Return Type  
  http://training.javatpoint.com/images/check.pngsuper keyword  
  http://training.javatpoint.com/images/check.pngInstance Initializer block  
  http://training.javatpoint.com/images/check.pngfinal keyword  
  http://training.javatpoint.com/images/check.pngRuntime Polymorphism  
  http://training.javatpoint.com/images/check.pngstatic and Dynamic binding  
  http://training.javatpoint.com/images/check.pngAbstract class and Interface  
  http://training.javatpoint.com/images/check.pngDowncasting with instanceof operator  
  http://training.javatpoint.com/images/check.pngPackage and Access Modifiers  
  http://training.javatpoint.com/images/check.pngEncapsulation  
  http://training.javatpoint.com/images/check.pngObject class   
  http://training.javatpoint.com/images/check.pngObject Cloning  
  http://training.javatpoint.com/images/check.pngJava Array  
  http://training.javatpoint.com/images/check.pngCall By Value and Call By Reference  
  http://training.javatpoint.com/images/check.pngstrictfp keyword  
  http://training.javatpoint.com/images/check.pngCreating API Document

**String Handling**

http://training.javatpoint.com/images/check.pngString : What and Why?  
http://training.javatpoint.com/images/check.pngImmutable String   
http://training.javatpoint.com/images/check.pngString Comparison   
http://training.javatpoint.com/images/check.pngString Concatenation   
http://training.javatpoint.com/images/check.pngSubstring   
http://training.javatpoint.com/images/check.pngMethods of String class  
http://training.javatpoint.com/images/check.pngStringBuffer class   
http://training.javatpoint.com/images/check.pngStringBuilder class   
http://training.javatpoint.com/images/check.pngCreating Immutable class  
http://training.javatpoint.com/images/check.pngtoString method   
http://training.javatpoint.com/images/check.pngStringTokenizer class

**Exception Handling**

http://training.javatpoint.com/images/check.pngException Handling : What and Why?   
http://training.javatpoint.com/images/check.pngtry and catch block   
http://training.javatpoint.com/images/check.pngMultiple catch block   
http://training.javatpoint.com/images/check.pngNested try   
http://training.javatpoint.com/images/check.pngfinally block   
http://training.javatpoint.com/images/check.pngthrow keyword   
http://training.javatpoint.com/images/check.pngException Propagation   
http://training.javatpoint.com/images/check.pngthrows keyword   
http://training.javatpoint.com/images/check.pngException Handling with Method Overriding  
http://training.javatpoint.com/images/check.pngCustom Exception 

**Nested Classes**

http://training.javatpoint.com/images/check.pngNested Class : What and Why?  
http://training.javatpoint.com/images/check.pngMember Inner class   
http://training.javatpoint.com/images/check.pngAnnonymous Inner class   
http://training.javatpoint.com/images/check.pngLocal Inner class   
http://training.javatpoint.com/images/check.pngstatic nested class   
http://training.javatpoint.com/images/check.pngNested Interface 

**Multithreading**

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http://training.javatpoint.com/images/check.pngLife Cycle of a Thread   
http://training.javatpoint.com/images/check.pngCreating Thread   
http://training.javatpoint.com/images/check.pngThread Schedular   
http://training.javatpoint.com/images/check.pngSleeping a thread  
http://training.javatpoint.com/images/check.pngJoining a thread   
http://training.javatpoint.com/images/check.pngThread Priority   
http://training.javatpoint.com/images/check.pngDaemon Thread   
http://training.javatpoint.com/images/check.pngThread Pooling   
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http://training.javatpoint.com/images/check.pngShutdownHook   
http://training.javatpoint.com/images/check.pngPerforming multiple task by multiple thread   
http://training.javatpoint.com/images/check.pngGarbage Collection   
http://training.javatpoint.com/images/check.pngRunnable class

**Synchronization**

http://training.javatpoint.com/images/check.pngSynchronization : What and Why?  
http://training.javatpoint.com/images/check.pngsynchronized method   
http://training.javatpoint.com/images/check.pngsynchronized block   
http://training.javatpoint.com/images/check.pngstatic synchronization   
http://training.javatpoint.com/images/check.pngDeadlock   
http://training.javatpoint.com/images/check.pngInter-thread Communication  
http://training.javatpoint.com/images/check.pngInterrupting Thread

**Input and output**

http://training.javatpoint.com/images/check.pngFileOutputStream & FileInputStream   
http://training.javatpoint.com/images/check.pngByteArrayOutputStream   
http://training.javatpoint.com/images/check.pngSequenceInputStream   
http://training.javatpoint.com/images/check.pngBufferedOutputStream & BufferedInputStream   
http://training.javatpoint.com/images/check.pngFileWriter & FileReader   
http://training.javatpoint.com/images/check.pngCharArrayWriter   
http://training.javatpoint.com/images/check.pngInput from keyboard by InputStreamReader   
http://training.javatpoint.com/images/check.pngInput from keyboard by Console   
http://training.javatpoint.com/images/check.pngInput from keyboard by Scanner   
http://training.javatpoint.com/images/check.pngPrintStream class   
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http://training.javatpoint.com/images/check.pngCompressing and Uncompressing File   
http://training.javatpoint.com/images/check.pngReading and Writing data simultaneously   
http://training.javatpoint.com/images/check.pngDataInputStream and DataOutputStream   
http://training.javatpoint.com/images/check.pngStreamTokenizer class 

**Serialization**

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http://training.javatpoint.com/images/check.pngSerialization with IS-A and Has-A  
http://training.javatpoint.com/images/check.pngtransient keyword 

**Networking**

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http://training.javatpoint.com/images/check.pngDisplaying data of a web page   
http://training.javatpoint.com/images/check.pngInetAddress class   
http://training.javatpoint.com/images/check.pngDatagramSocket and DatagramPacket   
http://training.javatpoint.com/images/check.pngTwo way communication 

**AWT and EventHandling**

http://training.javatpoint.com/images/check.pngAWT Controls  
http://training.javatpoint.com/images/check.pngEvent Handling by 3 ways  
http://training.javatpoint.com/images/check.pngEvent classes and Listener Interfaces  
http://training.javatpoint.com/images/check.pngAdapter classes  
http://training.javatpoint.com/images/check.pngCreating Games and Applications

**Swing**

http://training.javatpoint.com/images/check.pngBasics of Swing   
http://training.javatpoint.com/images/check.pngJButton class   
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http://training.javatpoint.com/images/check.pngJComboBox class   
http://training.javatpoint.com/images/check.pngJTable class   
http://training.javatpoint.com/images/check.pngJColorChooser class   
http://training.javatpoint.com/images/check.pngJProgressBar class   
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http://training.javatpoint.com/images/check.pngDigital Watch   
http://training.javatpoint.com/images/check.pngGraphics in swing   
http://training.javatpoint.com/images/check.pngDisplaying Image   
http://training.javatpoint.com/images/check.pngEdit Menu for Notepad  
http://training.javatpoint.com/images/check.pngOpen Dialog Box   
http://training.javatpoint.com/images/check.pngCreating Notepad   
http://training.javatpoint.com/images/check.pngCreating Games and applications

**LayoutManagers**

http://training.javatpoint.com/images/check.pngBorderLayout   
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http://training.javatpoint.com/images/check.pngFlowLayout   
http://training.javatpoint.com/images/check.pngBoxLayout   
http://training.javatpoint.com/images/check.pngCardLayout 

**Applet**

http://training.javatpoint.com/images/check.pngLife Cycle of Applet   
http://training.javatpoint.com/images/check.pngGraphics in Applet   
http://training.javatpoint.com/images/check.pngDisplaying image in Applet   
http://training.javatpoint.com/images/check.pngAnimation in Applet   
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http://training.javatpoint.com/images/check.pngJApplet class   
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**Reflection API**

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http://training.javatpoint.com/images/check.pngnewInstance() & Determining the class object   
http://training.javatpoint.com/images/check.pngjavap tool   
http://training.javatpoint.com/images/check.pngcreating javap tool   
http://training.javatpoint.com/images/check.pngcreating appletviewer   
http://training.javatpoint.com/images/check.pngAccessing private method from outside the class 

**Collection**

http://training.javatpoint.com/images/check.pngCollection Framework   
http://training.javatpoint.com/images/check.pngArrayList class   
http://training.javatpoint.com/images/check.pngLinkedList class   
http://training.javatpoint.com/images/check.pngListIterator interface   
http://training.javatpoint.com/images/check.pngHashSet class   
http://training.javatpoint.com/images/check.pngLinkedHashSet class   
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http://training.javatpoint.com/images/check.pngHashMap class  
http://training.javatpoint.com/images/check.pngLinkedHashMap class   
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**JDBC**

http://training.javatpoint.com/images/check.pngJDBC Drivers  
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http://training.javatpoint.com/images/check.pngDriverManager   
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http://training.javatpoint.com/images/check.pngStoring image   
http://training.javatpoint.com/images/check.pngRetrieving image   
http://training.javatpoint.com/images/check.pngStoring file   
http://training.javatpoint.com/images/check.pngRetrieving file   
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http://training.javatpoint.com/images/check.pngMini Project 

**Java New Features**

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http://training.javatpoint.com/images/check.pngStatic Import   
http://training.javatpoint.com/images/check.pngAutoboxing and Unboxing   
http://training.javatpoint.com/images/check.pngEnum Type   
http://training.javatpoint.com/images/check.pngAnnotation   
etc.

**Internationalization**

http://training.javatpoint.com/images/check.pngInternationalization   
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