



#startupindia

YALE IT SKILL HUB

CERTIFIED



JAVA PROGRAMMING AND WEB DEVELOPMENT

ABOUT NEOGENICS

YALE IT SKILL HUB STRIVE TO GIVE OUR STUDENTS THE BEST EXPERIENCE POSSIBLE. THROUGH AN INTEGRATED LEARNING APPROACH, WE DELIVER A FULL LEARNING EXPERIENCE STARTING WITH IDENTIFICATION, TRAINING, REINFORCEMENT, SUPPORT AND VALIDATION. WE HELP YOU FIND THE SOLUTION THAT FITS YOUR BUDGET, TIME-FRAME AND LEARNING PREFERENCES. WE OFFER COURSES THROUGH INSTRUCTOR-LED TRAINING, MENTORED LEARNING AND PERSONAL MENTORING. CHOOSING THE TRAINING PROVIDER THAT'S RIGHT FOR YOU CAN BE OVERWHELMING IF YOU'RE UNSURE OF DISTINGUISHING FACTORS.

ABOUT THE COURSE

YALE IT SKILL HUB CERTIFIED JAVA PROGRAMMING AND WEB DEVELOPMENT WITH IS LEADING EDGE TECHNOLOGICAL PROGRAM, FOCUSING ON THRIVING A CAREER IN WEB DEVELOPMENT WITH ASSURED JOB PLACEMENT. THIS INTEGRATED BLENDED COURSE IS DIRECTED BY **YALE IT SKILL HUB** AND INSTRUCTED BY INDUSTRY'S BEST TECHNICAL EXPERTS OFFERING MENTORSHIP THROUGH SOFTWARE BUILD EXPERT, PAVING CAREER- PATH TO LAND IN THE DREAM JOB IN THE FORTUNE 500 COMPANIES.



SKILLS THAT YOU WILL LEARN



BASIC JAVA

- IDE , PLATFORM INDEPENDENT
- VARIABLES , DATA TYPES , TOKEN , OPERATORS , FUNCTIONS
- CONTROL STRUCTURE , LOOPING CONTROL
- ARRAY
- INTRODUCTION ABOUT OBJECT ORIENTATION
- CLASSES AND OBJECTS
- STATIC VARIABLE , STATIC FUNCTION, STATIC BLOCK
- CONSTRUCTOR , OVERLOADING
- INHERITANCE , POLYMORPHISM , OVERRIDING
- ABSTRACTION , INTERFACE , ENCAPSULATION
- DATA BINDING , MESSAGE PASSING
- SUPER AND THIS KEYWORD
- INNER CLASSES
- PACKAGES , ACCESS SPECIFIERS
- EXCEPTION HANDLING
- MULTI THREADING
- COLLECTION FRAMEWORK
- ARRAYLIST , LINKED LIST , STACK , VECTOR , HASHMAP , TREE MAP
- WRAPPER CLASSES
- AUTOBOXING AND UNBOXING
- STATIC IMPORT
- VARARGS
- ANNOATATION
- ENHANCED FOR LOOP
- TRY WITH RESOURCE STATEMENT

JAVA 8 FEATURE

- LAMBDA FUNCTION
- METHOD REFERENCE
- ENHANCED FOR EACH LOOP
- STREAM CLASSES
- ARRAY SORT
- DEFAULT METHOD
- STATIC METHOD IN AN INTERFACE
- MAP FUNCTION

STREAMS , READERS , WRITERS

- GETTING INPUT FROM USER
- COMMAND LINE PARAMETER
- BUFFERD READER , DATA INPUT STREAM , SCANNER
- FILE OUTPUT STREAM
- FILE WRITER
- FILE INPUT STREAM
- FILE READER
- READING AND WRITING DATA FROM EXCEL USING APACHE POI
- FILE OR FOLDER CREATION
- RENAMING FILE
- LIST OF FILES
- GET FILE NAME
- GET FILE PATH
- CONVERT FILE OBJECT INTO STRING

JAVA DATABASE CONNECTION

- TABLES , KEYS , NORMALIZATION
- SQL COMMENTS (DDL AND DML)
- CREATE TABLE , ALTER TABLE AND DROP TABLE
- SET FOREIGN KEY , RENAME TABLE , DROP DATABASE
- INSERT , UPDATE , DELETE RECORDS
- SELECT COMMAND
- WHERE CLAUSE
- AND , OR COMMAND
- GROUP BY , ORDER BY , DISTINCT
- SQL JOINS
- STORED PROCEDURE
- INTRODUCTION ABOUT DATA BASE DRIVERS
- CONNECTION BETWEEN ODBC AND DATA SOURCE WITH ORACLE
- CONNECTION BETWEEN JDBC AND ODBC
- PREPARED STATEMENT
- STATEMENT AND RESULTSET
- CALLABLE STATEMENT
- RESULTSET META DATA

JAVA DESKTOP APPLICATION DEVELOPMENT

- INTRODUCTION DESKTOP APPLICATION
- SWING COMPONENTS
- EVENTS , FORM CREATION , TABLE CREATION
- MIST CONTROLS

ADVANCE JAVA

- MVC FRAMEWORK
- CLIENT SIDE AND SERVER SIDE TECHNOLOGIES
- INTRODUCTION TO HTML
- HTML TAGS
- BLOCK LEVEL TAGS
- TABLE CREATION
- HTML FORMS
- LINK , DIVISION CREATION
- INTRODUCTION ABOUT CSS
- INTERNAL , EXTERNAL , INLINE CSS
- CSS LOCATORS
- CSS PROPERTIES
- BORDER , BACKGROUND , FONT , TEXT
- OVERFLOW , FLOAT , PADDING , MARGINS
- CURSOR , CSS ANIMATION
- INTRODUCTION ABOUT JAVA SCRIPT
- JAVA SCRIPT IN HTML
- LOOPS , CONTROL STRUCTURE, ARRAY
- ALERTS , FORM VALIDATION

SERVLET

- WEB ARCHITECTURE
- SERVLET LIFE CYCLE
- COMPONENTS OF SERVLET

- HANDLING REQUEST AND RESPONSE
- WEB.XML
- SERVLET CONFIG
- INIT PARAM
- SERVLET WITH JDBC
- FORM DATA STORED IN DATABASE
- SESSION TRACKING
- FILTERS
- FILE UPLOAD AND DOWNLOAD
- SERVLET CONTEXT
- AUTO REFRESH
- HITS COUNTER

JSP (JAVA SERVER PAGE)

- INTRODUCTION ABOUT JSP
- JSP LIFE CYCLE
- JSP TAGS
- IMPLICIT OBJECTS
- ACTION TAG
- JSP WITH SERVLET
- JSP WITH JDBC
- CRUD DEMO WITH JSP
- JSP COOKIES
- CUSTOM TAG
- JSTL CORE
- JSTL XML

- TAG LIBRARY DESCRIPTOR
- TAG HANDLER
- JSTL
- JSTL SQL

- **HTML**
 - HTML INTRODUCTION
 - HTML BASIC
 - HTML **ELEMENTS**
 - HTML ATTRIBUTES
 - HTML HEADING
 - HTML PARAGRAPH
 - HTML STYLE
 - HTML FORMATTING
 - HTML COMMENT TAG
 - HTML COLOURS
 - HTML LINKS
 - HTML IMAGE
 - HTML FAVICON
 - HTML PAGE TITLE
 - HTML TABLE
 - HTML LIST
 - HTML BLOCK AND INLINE
 - HTML DIV
 - HTML CLASS
 - HTML ID
 - HTML FRAME
 - HTML JAVASCRIPT

- HTML FILE PATH
- HTML HEAD
- HTML LAYOUT
- HTML RESPONSIVE
- HTML COMPUTER CODE ELEMENT
- HTML SEMANTICS
- HTML ENTITIES
- HTML SYMBOLS
- HTML EMOJIS
- HTML CHARACTER SET
- HTML MEDIA
- HTML VIDEO
- HTML AUDIO
- HTML PLUG-IN

- **CSS**

- CSS INTRODUCTION
- CSS SYNTAX
- CSS SELECTORS
- CSS COMMENTS
- CSS COLOR
- CSS BACKGROUND
- CSS BORDER
- CSS MARGINS
- CSS PADDING
- CSS HEIGHT / WIDTH
- CSS BOX MODEL
- CSS OUTLINE
- CSS TEXT
- CSS FONTS

YALE IT
Skill Hub

- CSS ICONS
- CSS LINKS
- CSS LISTS
- CSS TABLES
- CSS DISPLAY
- CSS MAX-WIDTH
- CSS POSITION
- Z-INDEX
- CSS OVERFLOW
- CSS FLOAT
- CSS INLINE-BLOCK
- CSS ALIGN
- CSS NAVIGATION BAR
- CSS DROPDOWN
- CSS IMAGE GALLERY
- CSS ATTRIBUTE
- CSS FORMS

❖ CSS ADVANCE

- CSS ROUNDED CORNERS
- CSS BORDER IMAGES
- CSS BACKGROUNDS
- CSS COLOURS
- CSS COLOR KEYWORDS
- CSS GRADIENTS
- CSS SHADOWS
- CSS TEXT EFFECTS
- CSS WEB FONTS

- CSS 2D TRANSFORMS
- CSS 3D TRANSFORMS
- CSS TRANSFORMS
- CSS ANIMATIONS
- CSS TOOLTIPS
- CSS STYLE IMAGES
- CSS IMAGE REFLECTION
- CSS OBJECT-FIT
- CSS MASKING
- CSS BUTTONS
- CSS PAGINATION
- CSS MULTIPLE COLUMNS
- CSS USER INTERFACE
- CSS VARIABLES
- CSS BOX SIZING
- CSS MEDIA QUERIES
- CSS FLEXBOX

❖ **BOOTSTRAP**

- INTRODUCTION ABOUT BOOTSTRAP
- GRID BASICS
- BOOTSTRAP TABLES
- BOOTSTRAP IMAGES
- BOOTSTRAP BUTTONS
- BOOTSTRAP COLLAPSE
- BOOTSTRAP SPINNERS
- BOOTSTRAP JUMBOTRON
- BOOTSTRAP PROGRESS BAR
- BOOTSTRAP PAGINATIONS

- BOOTSTRAP ICONS
- BOOTSTRAP NAVIGATION BAR
- BOOTSTRAP DROPDOWNS
- BOOTSTRAP FORMS
- BOOTSTRAP SLIDE
- BOOTSTRAP TOOLTIP
- BOOTSTRAP POPOVER
- BOOTSTRAP TOAST
- BOOTSTRAP SCROLLSPY

❖ JAVA SCRIPT

- JS INTRODUCTION
- JAVA SCRIPT OUTPUT
- JAVA SCRIPT STATEMENTS
- JAVA SCRIPT SYNTAX
- JAVA SCRIPT COMMENTS
- JAVA SCRIPT VARIABLES
- JAVA SCRIPT LET
- JAVA SCRIPT CONST
- JAVA SCRIPT OPERATOR
- JAVA SCRIPT DATA TYPES
- JAVA SCRIPT STRING
- JAVA SCRIPT NUMBER
- JAVA SCRIPT BIGINT
- JAVA SCRIPT BOOLEAN
- JAVA SCRIPT UNDEFINED
- JAVA SCRIPT NULL
- JAVA SCRIPT SYMBOL

- JAVA SCRIPT S OBJECT
- JAVA SCRIPT FUNCTION
- JAVA SCRIPT OBJECT
- JAVA SCRIPT EVENT
- JAVA SCRIPT STRING
- JAVA SCRIPT STRING METHODS
- JAVA SCRIPT STRING TEMPLATES
- JAVA SCRIPT NUMBER
- JAVA SCRIPT BEGIN
- JAVA SCRIPT NUMBER METHOD
- JAVA SCRIPT ARRAYS
- JAVA SCRIPT ARRAYS METHODS
- JAVA SCRIPT ARRAYS SORTS
- JAVA SCRIPT ARRAY COST
- JAVA SCRIPT SET METHODS
- JAVA SCRIPT RANDOM
- JAVA SCRIPT IF ELSE
- JAVA SCRIPT SWITCH
- JAVA SCRIPT LOOP FOR
- JAVA SCRIPT LOOP WHILE
- JAVA SCRIPT BREAK
- JAVA SCRIPT SETS
- JAVA SCRIPT TYPE OF
- JAVA SCRIPT SCOPE
- JAVA SCRIPT HOISTING
- JAVA SCRIPT STRICT
- JAVA SCRIPT THIS KEYWORDS
- JAVA SCRIPT ARROW FUNCTION
- JAVA SCRIPT MODULES

- JAVA SCRIPT JSON
- JAVA SCRIPT DEBUGGING
- JAVA SCRIPT STYLE GUIDE
- JAVA SCRIPT PERFORMANCE

JQUERY

- JQUERY INTRODUCTION
- JQUERY SYNTAX
- JQUERY SELECTORS
- JQUERY CLASS SELECTORS
- JQUERY ID SELECTORS
- JQUERY EVENT HANDLER
- JQUERY SHOW AND HIDE CONCEPTS
- JQUERY FADE
- JQUERY ANIMATIONS



XML (EXTENSIBLE MARKUP LANGUAGE)

- XML SCHEMA
- XML DTD
- FIRST XML PROGRAM
- XSLT REPORT GENERATION
- XML PARSERS
- SAX PARSER
- STAX PARSER
- DOM PARSER
- XPATH PARSER
- JAXB

HIBERNATE

- HIBERNATE ARCHITECTURE
- COMPONENTS OF HIBERNATE
- HIBERNATE DIALECTS
- HIBERNATE DATA TYPES
- HIBERNATE CONFIGURATIN XML
- HIBERNATE MAPPING XML
- FIRST PROGRAM FOR HIBERNARTE

- MAPPING WITH LIST IN ANNOATATION
- MAPPING WITH POJO OBJECT
- ANNOATATION WITH POJO OBJECT
- HIBERNATE MAPPING
- INHERITANCE MAPPING
- COMPONENT MAPPING
- COLLECTION MAPPING
- MAPPING WITH LIST IN XML
- ONE TO MANY RELATIONSHIP XML
- ONE TO MANY RELATIONSHIP ANNOATATION
- MANY TO ONE RELATIONSHIP XML
- MANY TO ONE RELATIONSHIP ANNOATATION
- MANY TO MANY RELATIONSHIP XML
- MANY TO MANY RELATIONSHIP ANNOATATION
- ONE TO ONE RELATIONSHIP XML
- ONE TO ONE RELATIONSHIP ANNOATATION
- HQL (HIBERNATE QUERY LANGUAGE)

SPRING

- SPRING INSTALLATION
- SPRING COMPONENTS
- SPRING LIFE CYCLE
- FIRST SPRING PROGRAM
- IOC CONTAINER
- DEPENDANCY INJECTION
- SETTER DEPENDENCY INJECTION

- AUTOWIRING
- SETTER INJECTION WITH LIST
- SETTER INJECTION WITH MAP
- CONSTRUCTOR INJECTION WITH MAP
- CONSTRUCTOR DEPENDENCY INJECTION
- CONSTRUCTOR INJECTION WITH LIST
- SPRING AOP
- SPRING WITH JDBC
- SPRING INTEGRATION WITH HIBERNATE
- SPRING WEB REQUEST
- SPRING MVC

WEBSERVICE

- INTRODUCTION TO REST API
- DOWNLOAD AND INSTALL SPRING BOOT
- INITIALIZING A RESTFUL WEB REQUEST
- SPRING BOOT AUTO CONFIGURATION AND DISPATCHER SERVLET
- ENHANCING THE HELLO WORLD SERVICE WITH A PATH VARIABLE
- THE POST METHOD TO CREATE USER RESOURCE
- POST METHOD TO DELETE USER RESOURCE
- VALIDATION FOR RESTFUL SERVICES
- HATEOS FOR RESTFUL SERVICES
- REST API SERVICES

