



J2I Study Abroad Training Program
情報処理コース
(Diploma Program in Information Technology)

Softbridge Solutions Japan Co.,Ltd.
 TEL: 03-5280-7818
 FAX: 03-5280-0503
 URL: <http://www.j2i.jp>

Term - 1				
No	Module	Duration (hrs)	Days	Comment
E1	Elementry English	105	70	
1	Basics of PC Microsoft Windows 2000 Network and Operating System Essentials	8	2	Introduction to PC, Windows OS Operating + Network Command
2	MS - OFFICE (MS-EXCEL)	8	2	MS-EXCEL- a Data Analysis
3	Programming Tech (Flow Chart + Algorithm) Using Visual Basic 6.0	28	7	Programming Basics
4	MS - SQL Server 2000 Database	36	9	Introduction to Relational Database Management System
5	Developing ASP.NET Web Applications Using Visual Studio .NET	80	20	Microsoft .NET programming
6	Web Development Skills from ASP to Microsoft ASP.NET	40	10	
7	Programming with Microsoft ADO.NET	40	10	
8	Mini Project (Using ASP.NET + SQL Server)	40	10	Project
8A	Preparation & Submissions of Assignments - Case Studies	12	3	Assignment & Exam Schedule
	Self Study/ Exam Preparation	20	5	
	Oral / Practical Exams	4	1	
	Theory Exams	4	1	
Total IT Hours / Days		320	80	

Term - 2				
No	Module	Duration (hrs)	Days	Comment
E2	Advance English	105	70	
9	OOPs Concepts & UML Design	24	6	Understanding OOPs &
10	Fundamentals of Java Programming Language (Core Java)	40	10	Basic JAVA Programming
11	Java Programming Language (Advanced Java)	88	22	J2EE / JSP included
12	Oracle 9i Application Developer	72	18	Database Programming
13	Oracle 9i DBA	16	4	Intro to Database
14	Mini Project (Java + Oracle 9i)	40	10	Application Devepolment
14A	Preparation & Submission of Assignments & Case Studies	20	5	Assignment & Exam Schedule
	Term End Study Leave	12	3	
	Oral / Practical Exams	4	1	
	Theory Exams	4	1	
Total IT Hours / Days		320	80	

Term - 3				
No	Module	Total Duration (hrs)	Self Dev Hours	Supervised Hours
15	Project -	160	120	40
	Online Document Management System			
	On-line Examination System			
	eMail Engine (Similar to Outlook Express)			
	Online Shopping Cart			
	Human Resource Management System			
16	Application of SOAP Protocol (Example: Exchange of information from decentralized, distributed environment like the ATCs and integrating to NRC)	220		
	Internship			
	Internship Project Report preparation Project Presentation			
Total Hours		380		



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Term - 1	
No	Certifications
1	(Cert Exam MCP) Developing and Implementing Web Applications with Microsoft Visual Basic® .NET and Microsoft Visual Studio® .NET
2	(Cert Exam MCSD) Administering Microsoft SQL Server 2000 Database

Term - 2	
No	Certifications
1	(Cert Exam SCJD) Sun Certified Java Developer.
2	(Cert Exam SCJP) Sun Certified Java Professional
3	(Cert Exam OCP) Certified Professional

Term - 3	
No	Certifications
1	(Cert TOEIC) Certification for English Language.
2	(Cert Internship) Certificate for Intership Experience.
3	(Cert Exam SBS) Certified IT Professional.



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Term - 1		
No	Module	Duration (hrs)
E1	Elementary English	105
Pre-requisites : Basic language skills in Reading, Writing, Listening and Speaking		
Objective : Students will learn how to - <ul style="list-style-type: none"> - express thier ideas confidently in day-to day situations - Ask for and give personal and job related information - Answer / get through on The phone - give and take telephone messages - State reasons for a Call - Change arrangements - Confirming information - End a Call - Ask for and give information on companies and products - Say large numbers - Lay out a business letter, fax and memo - Ask for directions. - Talk about departments - Make plans and arrangements - Make appointments - Book a hotel room - Welcome visitors and Make small Talk - Describe business events - Write a letter requesting information - use social skills & cultural awareness in business and entertaining guests - Make and Accept or Decline invitations - take a business associate to dinner - Deal with problems and clients - Complain and Apologize - Present ideas effectively - to plan, prepare and structure presentations 		
Topics		
The Course focuses on application of English Language in the day-to day situations as well as in the Real World Business context. <ul style="list-style-type: none"> - The focus is on Speaking, Listening and Reading Skills. - The Teaching methodology is based on Interactive communicative role plays, picture Reading, pair work, group discussions. 		



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Term - 1		
No	Module	Duration (hrs)
E2	Advanced English	105
Pre-requisites : Good language skills in Reading, Writing, Listening and Speaking.		
Objective : Students will learn how to - <ul style="list-style-type: none"> - Ask for and give personal and job related information - Answer / get through on The phone - give and take telephone messages - State reasons for a Call - Change arrangements - Confirming information - End a Call - Ask for and give information on companies and products - Say large numbers - Lay out a business letter, fax and memo - Ask for directions. - Talk about departments - Make plans and arrangements - Make appointments - Book a hotel room - Welcome visitors and Make small Talk - Describe business events - Write a letter requesting information - use social skills & cultural awareness in business and entertaining guests - Make and Accept or Decline invitations - take a business associate to dinner - Deal with problems and clients - Complain and Apologize - Present ideas effectively - to plan, prepare and structure presentations 		
Topics		
The Course focuses on application of English Language in the day-to-day situations as well as in the Real World Business context. <ul style="list-style-type: none"> - The focus is on Speaking, Listening and Reading Skills. - The Teaching methodology is based on Interactive communicative role plays, picture Reading, pair work, group discussions. 		



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Term - 1		
No	Module	Duration (hrs)
1	Basics of PC Microsoft Windows 2000 Network and Operating System Essentials	8
Pre-requisites : - Basic Knowledge of Computer & Network - Able to Read, Write & Converse in English		
Objective : Understand the - Features of Windows 2000 - Basics of networking with Windows 2000 - the types of user accounts, security features - Administrative tasks. - Common protocols used in the a Windows 2000 network - Understand TCP/IP, Name resolution, routing, and IP addressing - Network communication models - Various types of network architectures - Physical Components - Protocols for remote access communication - Client and Server tech. used in accessing Web services		
Topics		
1	Introduction to Windows 2000 and Networking - Windows 2000 Operating Systems - Introduction to Networks - Windows 2000 Implementation of Networking	
2	Administration of a Windows 2000 Network Topics - Windows 2000 Help - Administrative Tasks - Administrative Tools - Use Online Help - Describe the tools used to perform routine administrative tasks - Control Panel - System Properties - System Information - Event Viewer - Windows Task Manager - Performance - Printers - Shared Folders - Disk Management - Backup - Security Management - Network - Microsoft Management Console	
3	Network Securing on User Accounts - Groups - User Rights - Permissions	
4	Examining the Network - Scope of Networks - Basic Connectivity Components - Network Topologies - Network Technologies - Expanding the Network	



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5	Examining the Network Protocols <ul style="list-style-type: none">- Introduction to Protocols- Protocols and Data Transmissions- Common Protocols- Other Communication Protocols- Remote Access Protocols
6	Examining TCP/IP <ul style="list-style-type: none">- Introduction to TCP/IP- TCP/IP Protocol Suite- Name Resolution- Examining the Data Transfer Process- Routing Data
7	Examining IP Addressing <ul style="list-style-type: none">- Classful IP Addressing- Subnetting a Network- Planning IP Addressing- Assigning TCP/IP Addresses
8	Optimizing IP Address Allocation <ul style="list-style-type: none">- Classless Inter-Domain Routing (CIDR)- Binary IP Addresses- Binary Subnet Masks- IP Address Allocation Using CIDR
9	Examining Web Services <ul style="list-style-type: none">- Identifying Internet Concepts- Using Client Technologies- Connecting to the Internet- Identifying Web Server Concepts



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Term - 1		
No	Module	Duration (hrs)
2	MS - OFFICE (EXCEL)	8
Pre-requisites : - Basic Knowledge of Computer Needed & Windows OS - Able to Read, Write & Converse in English		
Objective : Understand the - Gain a good understanding of the Microsoft Office (Excel) - Use of Excel in Data Analysis		
Topics		
- Performing calculations - Analysing data using filters, sorts, scenarios, pivot tables and charts - using macros and database tools		



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Term - 1		
No	Module	Duration (hrs)
3	Programming Tech (Flow Chart + Algorithm) Using VB	28
Pre-requisites : - Basic Knowledge of Computer Needed & Windows OS - Able to Read, Write & Converse in English		
Objective : Understand & Develop Confidence in ; - Alogorithm, Program Logic and Pseudocode - Gain knowledge of Programm Design & logic using VB - Gain a good understanding of development of desktop applications		
Topics		
1	Program design - Top down; hierarchy charts - Modular (functions, procedures) - IPO (input-process-output) - Pseudocode - Flowcharts	
2	Code generation; design and style - Test case development - Desk checking - Debugging - Documentation	
3	Program development software - Login, Logout - Text Editor - Compiling, linking, and executing - Systems utility commands: PRINT, COPY, TYPE, etc.	
4	Data Types - Integer - Real - Character - User Defined	
5	Control Structures - Sequence - Selection - Repetition	
6	Arrays - One-dimensional - Using arrays - Reading/Writing the elements of an array - Building an array - Manipulating an array	
7	Number Systems - Binary (Two's complement) - Octal - Hexadecimal - Conversions between bases	



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Term - 1		
No	Module	Duration (hrs)
4	MS - SQL Server 2000 Database	36
Pre-requisites : A Thorough Knowledge of Microsoft Windows® 2000 operating system & its Network Abilities which would include <ul style="list-style-type: none"> - Connect clients running Windows 2000 to networks and the Internet - Configure the Windows 2000 environment - Create and manage user accounts - Manage access to resources by using groups - Configure and manage disks and partitions, including disk striping and mirroring - Manage data by using the NTFS file system - Implement Windows 2000 security - Optimize performance in Windows 2000 		
Objective : Understand how to effectively use Microsoft SQL Server™ 2000 in .NET Framework		
Topics		
1	SQL Server Overview What Is SQL Server? SQL Server Integration SQL Server Databases SQL Server Security Working with SQL Server	
2	Overview of Programming SQL Server Designing Enterprise Application Architecture SQL Server Programming Tools The Transact-SQL Programming Language Elements of Transact-SQL Additional Language Elements Ways to Execute Transact-SQL Statement	
3	Creating and Managing Databases Creating Databases Creating Filegroups Managing Databases Introduction to Data Structures	
4	Creating Data Types and Tables Creating Data Types Creating Tables Generating Column Values Generating Scripts	
5	Implementing Data Integrity Types of Data Integrity Enforcing Data Integrity Defining Constraints Types of Constraints Disabling Constraints Using Defaults and Rules Deciding Which Enforcement Method to Use	
6	Planning Indexes Introduction to Indexes Index Architecture How SQL Server Retrieves Stored Data How SQL Server Maintains Index and Heap Structures Deciding Which Columns to Index	



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7	Creating and Maintaining Indexes Creating Indexes Creating Index Options Maintaining Indexes Introduction to Statistics Querying the sysindexes Table Setting Up Indexes Using the Index Tuning Wizard Performance Considerations
8	Implementing Views Introduction to Views Advantages of Views Defining Views Modifying Data Through Views Optimizing Performance by Using Views Performance Considerations
9	Implementing Stored Procedures Introduction to Stored Procedures Creating, Executing, Modifying, and Dropping Stored Procedures Using Parameters in Stored Procedures Executing Extended Stored Procedures Handling Error Messages Performance Considerations
10	Implementing User-defined Functions What Is a User-defined Function? Defining User-defined Functions Examples of User-defined Functions
11	Implementing Triggers Introduction to Triggers Defining Triggers How Triggers Work Examples of Triggers Performance Considerations
12	Programming Across Multiple Servers Introduction to Distributed Queries Executing an Ad Hoc Query on a Remote Data Source Setting Up a Linked Server Environment Executing a Query on a Linked Server Managing Distributed Transactions Modifying Data on a Linked Server Using Partitioned Views The following lab is covered in this module: Using Distributed Data
13	Optimizing Query Performance Introduction to the Query Optimizer Obtaining Execution Plan Information Using an Index to Cover a Query Indexing Strategies Overriding the Query Optimizer
14	Analyzing Queries Queries That Use the AND Operator Queries That Use the OR Operator Queries That Use Join Operations
15	Managing Transactions and Locks Introduction to Transactions and Locks Managing Transactions SQL Server Locking Managing Locks



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Term - 1		
No	Module	Duration (hrs)
5	Developing ASP.NET Web Applications Using Visual Studio .NET	80
Pre-requisites : - Basic Knowledge of Computer Needed & Windows OS. - Able to Read, Write & Converse in English - Strong Programming Logic - Good Implementation Knowledge of Visual Basic		
Objective : - Fundamentals of Web application - Site implementation using Microsoft ASP.NET and Microsoft Visual Basic .NET - Create an ASP.NET Web application that delivers dynamic content to Web site		
Topics		
1	Conceptual framework of the .NET Framework and ASP.NET. - Introduction to the .NET Framework - Overview of ASP.NET - Overview of the Lab Application - Resources	
2	Using Microsoft Visual Studio .NET - Overview of Visual Studio .NET - Creating an ASP.NET Web Application Project	
3	Using Microsoft .NET-Based Languages - Overview of the .NET-Based Languages - Comparison of the .NET-Based Languages - Creating a Component Using Visual Studio .NET	
4	Creating a Microsoft ASP.NET Web Form - Creating Web Forms - Using Server Controls	
5	Adding Code to a Microsoft ASP.NET Web Form - Using Code-Behind Pages - Adding Event Procedures to Web Server Controls - Using Page Events	
6	Tracing in Microsoft ASP.NET Web Applications - Understanding Tracing - Remote Debugging	
7	Validating User Input - Overview of User Input Validation - Using Validation Controls - Page Validation	
8	Creating User Controls - Adding User Controls to an ASP.NET Web Form - Creating User Controls	
9	Accessing Relational Data Using Microsoft Visual Studio .NET - Overview of ADO.NET - Creating a Connection to the Database - Displaying a DataSet in a List-Bound Control	



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10	Accessing Data with Microsoft ADO.NET - Introduction to Using ADO.NET - Connecting to a Database - Accessing Data with DataSets - Using Multiple Tables - Accessing Data with DataReaders
11	Calling Stored Procedures with Microsoft ADO.NET - Overview of Stored Procedures - Calling Stored Procedures
12	Reading and Writing XML Data - Overview of XML Architecture in ASP.NET - XML and the DataSet Object - Working with XML Data - Using the XML Web Server Control
13	Consuming and Creating XML Web Services - Overview of Using XML Web Services - Calling an XML Web Service by HTTP - Using a Proxy to Call an XML Web Service - Creating an XML Web Service
14	Managing State - State management - Application and Session Variables - Cookies and Cookieless Sessions
15	Configuring, Optimizing, and Deploying a Microsoft ASP.NET Web Application - Using the Cache Object - Using ASP.NET Output Caching - Configuring an ASP.NET Web Application - Deploying an ASP.NET Web Application
16	Helping to Protect a Microsoft ASP.NET Web Application - Web Application Security Overview - Working with Windows-Based Authentication - Working with Forms-Based Authentication - Overview of Microsoft Passport Authentication
17	Review Review of Material Covered Introduction to the Project



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Term - 1		
No	Module	Duration (hrs)
6	Web Development Skills from ASP to Microsoft ASP.NET	40
Pre-requisites : - Knowledge of HTML pages with tables, images, and forms - Experience using a scripting language, such as Microsoft Visual Basic® Scripting Edition or JavaScript - Familiarity with a Microsoft .NET-based programming language		
Objective : - Understand ASP and ASP.NET - Develop a ASP.NET Web application by using Microsoft Visual Studio® .NET - Develop a ASP.NET Web Application UI - Understand Trace feature, debugger to debug, Access databases - Explain how XML Web services is beneficial to distributed Internet computing - Create an XML Web service by using Visual Studio .NET - Create client code that can create and call a remote XML Web service - Access and display Extensible Markup Language (XML) data in an ASP.NET Web application - Use caching to improve Web application performance		
Topics		
1	Introduction to Microsoft ASP.NET Web Application Development Introduction to ASP.NET Developing an ASP.NET Web Application Using Visual Studio .NET .NET Programming Model Changes	
2	Developing a Microsoft ASP.NET Web Application User Interface Creating an ASP.NET Web Application User Interface Validating User Input Creating and Using User Controls in an ASP.NET Web Form Processing ASP.NET Web Forms	
3	Debugging Microsoft ASP.NET Web Applications Tracing in ASP.NET Web Applications Debugging ASP.NET Web Applications	
4	Accessing Data Using Microsoft ADO.NET Overview of ADO.NET Reading Data Using DataReaders Programmatically Accessing Data Using DataSets Visually Generating DataSets Data-Bound Controls Best Practices for Secure and Reliable Data Access	
5	Managing State in a Microsoft ASP.NET Web Application Introduction to State Management Session State Management Client-Side State Management	
6	Authenticating Users ASP.NET Authentication Model Implementing Windows-Based Authentication in ASP.NET Web Applications Implementing Forms-Based Authentication in ASP.NET Web Applications	
7	Creating and Consuming XML Web Services Introduction to XML Web Services Creating an XML Web Service Creating an XML Web Service Client	
8	Calling COM Component ASP.NET and COM Interoperability Calling Com Objects from ASP.NET Web Forms	



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9	Migrating ASP Web Applications to Microsoft ASP.NET Migrating an ASP Web Page Migrating an ASP Application
10	Deploying Microsoft ASP.NET Web Applications ASP.NET Application Deployment Methods Maintaining a Deployed ASP.NET Web Application
11	Target : Accessing XML Data XML in Microsoft .NET Displaying XML Data on a Web Form XML and the DataSet Object Improving Microsoft ASP.NET Web Application Performance Using Caching Using the Cache Object Using ASP.NET Output Caching Migrating ASP Web Applications to Microsoft ASP.NET



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Term - 1		
No	Module	Duration (hrs)
7	Programming with Microsoft ADO.NET	40
Pre-requisites :		
<ul style="list-style-type: none"> - Good Implementation Knowledge of Visual Basic & HTML - Good Understanding of ASP & ASP.Net 		
Objective :		
<ul style="list-style-type: none"> - Teach developers to build data-centric applications and Web services with Microsoft ADO.NET, Microsoft SQL Server™ 2000, and the Microsoft .NET Framework 		
Topics		
1	Data-Centric Applications and ADO.NET Design of Data-Centric Applications ADO.NET Architecture ADO.NET and XML	
2	Connecting to Data Sources Choosing a .NET Data Provider Defining a Connection Managing a Connection Handling Connection Exceptions Connection Pooling	
3	Performing Connected Database Operations Working in a Connected Environment Building Command Objects Executing Commands That Return a Single Value	
4	Building DataSets Working in a Disconnected Environment Building DataSets and DataTables Binding and Saving a DataSet Defining Data Relationships Modifying Data in a DataTable Sorting and Filtering	
5	Reading and Writing XML with ADO.NET Creating XSD Schemas Loading Schemas and Data into DataSets Writing XML from a DataSet	
6	Building DataSets from Existing Data Sources Configuring a DataAdapter to Retrieve Information Populating a DataSet Using a DataAdapter Configuring a DataAdapter to Update the Underlying Data Source Persisting Changes to a Data Source How to Handle Conflicts	
7	Building and Consuming a Web Service That Uses ADO.NET Building and Consuming a Web Service That Returns Data Build a Web service. Consume a Web service in a client application. Troubleshoot errors in an ADO.NET application	



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Term - 1			
No		Module	Duration (hrs)
8	Mini-Project	Document Management System	40
		On-line Examination System	
		Course Management System	
		Online Shopping Cart	
		Human Resource Management System	
		eMail Engine (Similar to Outlook Express)	
		Application of SOAP Protocol (Example: Exchange of information from decentralized, distributed environment like the ATCs and integrating to NRC)	
Pre-requisites : - Thorough Knowledge of Microsoft .NET - Should be able to develop Application using any of the above mentioned technologies			
Objective : Should be able to relate and understand the practical usage of all learnt technologies given any development Module			
Steps to Project Completion			
1		Base-Line Business Requirements Statement (BRS) is given Assumptions should be created SRS should be developed - Data Flow Diagrams (Level 0 & 1) - Business Process Flows Detailed Design Specification (DDS)	
2		Non base-line BRS document is given Impact Analysis Document (IA) Change Request Document Feasibility Report	
3		Final SRS & DDS Presentation	



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Term - 2		
No	Module	Duration (hrs)
9	OOPs Concepts & UML Design	24
Pre-requisites :		
<ul style="list-style-type: none"> - Basic understanding of OOPs - Strong Programming Logic - Good Implementation Knowledge of any Programming Language 		
Objective :		
<ul style="list-style-type: none"> - Develop Strong Fundamentals of Software Development Life Cycle (SDLC) - Develop Practical skills in the latest OO analysis and design methods - Learn how a consistent use of OO techniques leads to shorter development life cycles, increased productivity and reduced system maintenance costs 		
Topics		
1	Introducing the UML Relationships Interactions Patterns and Frameworks Rational Unified Process Case studies	
2	Introducing the UML Review of SDLC Why we Model Introducing the UML	
3	Relationships Classes Relationships Common mechanisms Diagrams Class diagrams Advanced classes Advanced Relationships	
4	Interactions Interfaces Types and Roles Packages Instances Object Diagrams Interactions Use Cases Use Case diagrams Interaction Diagrams Activity Diagrams	
5	Patterns and Frameworks Events and Signals State Machines Processes and Threads Time and Space State chart Diagrams Components Deployment Collaborations Patterns and Frameworks	
6	Rational Unified Process Component Diagrams Deployment Diagrams Systems and Models Applying UML Rational Unified Process	
7	Case Studies Gather requirement through UML tech. Provident fund calculation Food order automation Network based common mailing system Digital library for research papers	



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Term - 2		
No	Module	Duration (hrs)
10	Fundamentals of Java Programming Language(Core Java)	40
Pre-requisites : - Create and edit text files using a text editor - Use a World Wide Web (WWW) browser - Solve mathematical or logic problems - Define common computer terminology - Understand the concept of a variable - Develop simple scripts or programs using a scripting or third-generation language		
Objective : Understand the following thoroughly; - fundamentals of the Java language (using JDK 1.4) - Java language and it relation to OO programming and the Object Model - how to use Java multi-threading and exception handling features - Understand and use classes, inheritance, polymorphism - Understand the use of packages to organize code - Create well structured Java programs - Able to Compile and execute programs with the JDK 2 - Use the core Java libraries (java.lang, java.util packages) - Use Swing and the Java event delegation model to create well structured graphical user interfaces - Understand exceptions and use them for error handling - Understand and use basic I/O streams - Understand the basics of using JDBC (Java Database Connectivity) to access databases from Java - Develop GUI applications using AWT and Swing		
Topics		
1	Object Oriented Programming Concepts Conventional vs. Object Oriented Programming Inheritance, Encapsulation and Polymorphism	
2	Getting Started with Java™ Writing a Simple Class Adding Methods to the Class Language Statements Using Strings Specializing in a Subclass	
3	Essential Java™ Programming Fields and Variables Using Arrays Static Methods and Fields Java Packages Using the JDK	
4	Advanced Java™ Programming Inheritance and Polymorphism Interfaces and Abstract Classes Exception s Multithreading Programming JavaBeans™	



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5	Java Developer's Toolbox Utility Classes Vector and Hashtable Collections Inner Classes Java I/O
6	Writing Graphical User Interfaces Containers and Layout Managers Writing Simple Graphical Applications Writing Complete Graphical Applications
7	Java™ Application Development File System Access Networking Java Database Connectivity (JDBC) Writing Java Applets
8	Enterprise Java Overview Developing Java Servlets Introduction to Java Server Pages (JSPs) Java for the Enterprise



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Term - 2		
No	Module	Duration (hrs)
11	Java Programming Language (Advanced Java)	88
Pre-requisites :		
<ul style="list-style-type: none"> - Basic Knowledge of OOPS - Strong Programming Logic - Good Implementation Knowledge of simple Java programs 		
Objective :		
<ul style="list-style-type: none"> - Develop confidence & the steps required to design, develop and test Java programs - Develop Web based Applications Using JAVA - Develop confidence to appear for SCJP Exams 		
Topics		
1	The java.sql package Driver Manager, Driver, Connection, Statement, Result Set Writing database applications Connector interface, creating new classes, applications	
2	Java Beans : Component Technology in Java (BDK) BeanBox concept Creating Beans with simple properties and methods Packaging Beans: Manifest files and jar files Using JavaBeans in IDEs	
3	Creating Beans with Bound properties Constrained properties Indexed properties Events Property editors, Customizers	
4	Servlets : Dynamic Content Generation Advantages of Servlets over CGI The Servlet interface The HttpServlet, HttpServletRequest, HttpServletResponse classes	
5	Session Tracking with Cookies & HttpSession JSP : Separating UI from Content generation code MVC architecture Life cycle of a JSP page Directives, Implicit and Explicit Objects, Scriptlets, Expressions	
6	Scope Session Tracking Custom Tag Libraries in JSP	
7	EJB : Server side distributed component architecture EJB containers EJB Types : Session and Entity Beans EJBObject, EJBHome	
8	Life Cycle of a stateless session Bean & stateful session bean Creating Beans Stateless Session Beans & Stateful Session Beans Deploying Beans : XML deployment descriptors Writing bean client applications Life Cycle of an Entity Bean	
9	Enterprise Java Beans Query Language Creating Entity Beans Message driven beans Calling EJBs from JSP pages JSP, Servlets and EJB in J2EE Java Security Web-tier security EJB-tier security Application-tier-client security Native Methods Calling Win32 APIs from Java	



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Term - 2		
No	Module	Duration (hrs)
12	Oracle 9i Application Developer	72
Pre-requisites :		
<ul style="list-style-type: none"> - Basic Knowledge of Database - Basic Programming Skills 		
Objective :		
<ul style="list-style-type: none"> - Understand & gain confidence using Oracle 9i - Develop skills to work with DBA or Application Developers - Develop confidence & prepare individuals to appear for OCP 		
Topics		
1	SQL Writing Basic SQL Select Statements Restricting and Sorting Data Single-Row Functions Displaying Data from Multiple Tables Aggregating Data using Group Functions Identify the available group functions Use group functions Group data using the GROUP BY clause Include or exclude grouped rows by using the HAVING clause	
2	Subqueries Describe the types of problems that subqueries can solve Define subqueries List the types of subqueries Write single-row and multiple-row subqueries	
3	Producing Readable Output with iSQL*Plus Produce queries that require a substitution variable Produce more readable output Create and execute script files	
4	Manipulating Data Describe each DML statement Insert rows into a table Update rows in a table Delete rows from a table Merge rows in a table Control transactions	
5	Creating and Managing Tables Describe the main database objects Create tables Describe the datatypes that can be used when specifying column definition Alter table definitions Drop, rename and truncate tables Including Constraints Describe constraints Create and maintain constraints	
6	Creating Views Describe a view Create, alter the definition, and drop a view Retrieve data through a view Insert, update and delete data through a view	
7	Creating Other Database Objects Create, maintain and use sequences Create and maintain indexes Create private and public synonyms	
8	Oracle Data Dictionary Describe the data dictionary views a user may access Query data from the data dictionary	



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9	<p>Writing Control Structures Identify the uses and types of control structures Construct an IF statement Construct and identify different loop statements Use logic tables Control block flow using nested loops and labels</p>
10	<p>Working with Composite Datatypes Create user-defined PL/SQL records Create a record with the % ROWTYPE attribute Create a PL/SQL table Create a PL/SQL table of records Describe the difference between records, tables, and tables of records</p>
11	<p>Overview of Relational Databases, SQL, and PL/SQL Discuss the theoretical and physical aspects of a relational database Describe the Oracle implementation of the RDBMS and ORDBMS Describe the use and benefits of PL/SQL</p>
12	<p>Aggregating Data using Group Functions Identify the available group functions Use group functions Group data using the GROUP BY clause Include or exclude grouped rows by using the HAVING clause</p>
13	<p>Views Create and use an inline view Perform Top 'N' Analysis</p>
14	<p>Other Database Objects Describe database objects and their uses Create, maintain, and use sequences Create and maintain indexes Create private and public synonyms</p>
15	<p>Controlling User Access Create users Create roles to ease setup and maintenance of the security model Use the GRANT and REVOKE statements to grant and revoke object privileges</p>
16	<p>Declaring Variables List the benefits of PL/SQL Describe the basic PL/SQL block and its sections Describe the significance of variables in PL/SQL Declare PL/SQL variables Execute a PL/SQL block</p>
17	<p>Writing Explicit Cursors Distinguish between an implicit and an explicit cursor Use a PL/SQL record variable Write a cursor FOR loop</p>
18	<p>Advanced Explicit Cursor Concepts Write a cursor that uses parameters Determine when a FOR UPDATE clause in a cursor is required Determine when to use the WHERE CURRENT OF clause Write a cursor that uses a subquery</p>
19	<p>Writing Basic SQL Statements List the capabilities of SQL SELECT statements Execute a basic SELECT statement Differentiate between SQL statements and SQL*Plus commands</p>
20	<p>Restricting and Sorting Data Limit the rows retrieved by a query Sort the rows retrieved by a query</p>



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21	<p>Displaying Data from Multiple Tables Write SELECT statements to access data from more than one table by using equality and nonequality joins View data that generally does not meet a join condition by using outer joins Join a table to itself</p>
22	<p>Single Row Functions Describe the various types of functions available in SQL Use character, number, and date functions in SELECT statements Describe the use of conversion functions</p>
23	<p>Writing Executable Statements Describe the significance of the executable section Write statements in the executable section Describe the rules of nested blocks Execute and test a PL/SQL block Use coding conventions</p>
24	<p>Interacting with the Oracle Server Write a successful SELECT statement in PL/SQL Declare the datatype and size of a PL/SQL variable dynamically Write DML statements in PL/SQL Control transactions in PL/SQL Determine the outcome of SQL DML statements</p>
25	<p>Handing Exceptions Define PL/SQL exceptions Recognize unhandled exceptions List and use different types of PL/SQL exception handlers Trap unanticipated errors Describe the effect of exception propagation in nested blocks Customize PL/SQL exception messages</p>
26	<p>Subqueries Describe the types of problems that subqueries can solve Define subqueries List the types of subqueries Write single-row and multiple-row subqueries</p>
27	<p>Multiple-Column Subqueries Write multiple-column subqueries Describe and explain the behavior of subqueries when null values are retrieved Write subqueries in a FROM clause</p>
28	<p>Producing Readable Output with iSQL*Plus Produce queries that require a substitution variable Produce more readable output Create and execute script files</p>
29	<p>Manipulating Data Describe each DML statement Insert rows into a table Update rows in a table Delete rows from a table Merge rows in a table Control transactions</p>
30	<p>Including Constraints Describe constraints Create and maintain constraints</p>



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Term - 2		
No	Module	Duration (hrs)
13	Oracle 9i DBA	16
Pre-requisites :		
- Thorough knowledge of Oracle 9i		
Objective :		
- To gain confidence as Oracle Database Administrator		
- To achieve Oracle Database Administrator Certification		
Topics		
1	Oracle Architectural Components Describe the Oracle architecture and its main components Describe the structures involved in connecting a user to an Oracle instance	
2	Getting Started With the Oracle Server Identify common database administrative tools available to a DBA Identify the features of the Oracle Universal Installer Explain the benefits of Optimal Flexible Architecture Set up password file authentication List the main components of the Oracle Enterprise Manager and their uses	
3	Maintaining the Control File Explain the uses of the control file Describe the contents of the control file Multiplex and manage the control file Manage the control file with Oracle Managed Files Obtain control file information	
4	Managing Tablespaces and Data files Describe the logical structure of tablespaces within the database Create tablespaces Change the size of the tablespace Allocate space for temporary segments Change the status of tablespaces Change the storage settings of tablespaces Implement Oracle Managed Files	
5	Managing Tables Identify the various methods of storing data Describe Oracle data types Distinguish between an extended versus a restricted ROWID Describe the structure of a row Create regular and temporary tables Manage storage structures within a table Reorganize, truncate, drop a table Drop a column within a table	
6	Managing an Oracle Instance Create and manage initialization parameter files Configure OMF Start up and shut down an instance Monitor the use of diagnostic files	
7	Creating a Database Describe the prerequisites necessary for database creation Create a database using Oracle Database Configuration Assistant Create a database manually	
8	Maintaining Redo Log Files Explain the purpose of online redo log files Describe the structure of online redo log files Control log switches and checkpoints Multiplex and maintain online redo log files Manage online redo log files with OMF	



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9	Storage Structure and Relationships Describe the logical structure of segments within the database Describe the segment types and their uses List the keywords that control block space usage Obtain information about storage structures from the data dictionary
10	Managing Undo Data Describe the purpose of undo data Implement Automatic Undo Management
11	Managing Indexes Describe the different types of indexes and their uses Create various types of indexes Reorganize indexes Drop indexes Get index information from the data dictionary Monitor the usage of an index
12	Data Dictionary Content and Usage Identify key data dictionary components Identify the contents and uses of the data dictionary Query the data dictionary
13	Managing Password Security and Resources Manage passwords using profiles Administer profiles Control use of resources using profiles Obtain information about profiles, password management and resources Managing Users Create new database users Alter and drop existing database users Monitor information about existing users Managing Privileges Identify system and object privileges Grant and revoke privileges Identify auditing capabilities Managing Roles Create and modify roles Control availability of roles Remove roles Use predefined roles Display role information from the data dictionary Maintaining Data Integrity Implement data integrity constraints Maintain integrity constraints Obtain constraint information from the data dictionary Using Globalization Support Choose database character set and national character set for a database Specify the language- dependent behavior using initialization parameters, environment variables and the ALTER SESSION command Use the different types of National Language Support (NLS) parameters Explain the influence on language-dependent application behavior Obtain information about Globalization Support usage



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14	<p>Oracle9i Performance Tuning Describe the roles associated with the database tuning process Describe the dependency between tuning in different development phases Describe service level agreements Describe appropriate tuning goals Describe the most common tuning problems Describe the tuning considerations during development and production Describe performance and safety tradeoffs Sizing the Buffer Cache Describe how the buffer cache is used by different Oracle processes Describe the tuning issues related to the buffer cache Monitor the use of the buffer cache, also the different pools within the buffer cache Implement dynamic SGA allocation Set the DB_CACHE_ADVICE parameter Create and size multiple buffer pools Detect and resolve free list contention Sizing other SGA Structures Monitor and size the redo log buffer Monitor and size the java pool Control the amount of Java session memory used by a session</p>
15	<p>Oracle9i Performance Tuning Configure the instance to use I/O Slaves Configure and use multiple DBW processors Monitoring and Detecting Lock Contention Define levels of locking Describe possible causes of contention Use Oracle utilities to detect lock contention Resolve contention in an emergency Prevent locking problems Recognize Oracle errors arising from deadlocks Using Oracle Blocks Efficiently Describe the correct usage of extents and Oracle blocks Explain space usage and the high water mark Determine the high water mark Recover space from sparsely populated segments Describe and detect chaining and migration of Oracle blocks Perform index reorganization Monitor indexes to determine usage Diagnostic and Tuning Tools</p>
16	<p>Explain how the alert.log file is used Explain how background trace files are used Explain how user trace files are used Describe the statistics kept in the dynamic performance views Explain how StatsPack collects statistics Collect statistics using StatsPack Collect statistics using Enterprise Manager Use other tuning tools Database Configuration and I/O Issues Explain the advantages of distributing different Oracle file types Describe reasons for partitioning data in tablespaces Diagnose tablespace usage problems Describe how checkpoints work Monitor and tune checkpoints Monitor and tune redo logs Optimize Sort Operations Describe how sorts are performed Identify the SQL operations which require sorts Differentiate between disk and memory sorts Create and monitor temporary tablespaces</p>
17	<p>Reduce total sorts and disk sorts Determine the number of sorts performed in memory Set old and new sort parameters</p>



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18	<p>Tuning Oracle Shared Server</p> <ul style="list-style-type: none"> Identify issues associated with managing users in a Shared Server environment Diagnose and resolve performance issues with Oracle Shared Server processes Configure the Oracle Shared Server environment to optimize performance Application Tuning Describe the role of the DBA in tuning Applications Explain different storage structures, and why one storage structure may be preferred over another Explain the different types of indexes Explain Index Organized Tables Describe partitioning methods Explain the use of the DBMS_STATS procedure Describe Materialized Views and use of Query Rewrites List requirements for OLTP, DSS and Hybrid Systems SQL Statement Tuning Describe how the Optimizer is used Explain the concept of plan stability Use stored outlines Describe how hints are used Use SQL Trace and TKPROF Collect statistics on indexes and tables Describe the use of histograms Copy statistics between databases Sizing the Shared Pool
19	<p>Tuning Oracle Shared Server</p> <ul style="list-style-type: none"> Measure and tune the library cache hit ratio Measure and tune the dictionary cache hit ratio Size and pin objects in the shared pool Tune the shared pool reserve space Describe the UGA and session memory considerations Explain other tuning issues related to the shared pool Set the large pool Diagnosing Contention For Latches Describe the purpose of latches Describe the different types of latch request Diagnose contention for latches Tune the appropriate resources to minimize latch contention Tuning the Operating System and Using Resource Manager Describe different system architectures Describe the primary steps of OS tuning Identify similarities between OS and DB tuning Understand virtual memory and paging Explain the difference between a process and a thread Set up Database Resource Manager Assign users to Resources Manager groups Create resource plans within groups
20	<p>Networking Overview</p> <ul style="list-style-type: none"> Explain solutions included with Oracle9i for managing complex networks Describe Oracle networking add-on solutions
21	<p>Basic Oracle Net Architecture</p> <ul style="list-style-type: none"> Explain the key components of the Oracle Net layered architecture Explain Oracle Net Services role in client server connections Describe how web client connections are established through Oracle networking products
22	<p>Backup and Recovery Overview</p> <ul style="list-style-type: none"> Describe the basics of database backup, restore and recovery List the types of failure that may occur in an Oracle environment Define a backup and recovery strategy
23	<p>Instance and Media Recovery Structures</p> <ul style="list-style-type: none"> Describe the Oracle processes, memory structures, and files relating to recovery Identify the importance of checkpoints, redo log files, and archived log files Describe ways to tune instance recovery



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24	<p>Oracle Recovery Manager Overview and Configuration Identify the features and components of RMAN Describe the RMAN repository and control file usage Describe channel allocation Describe the Media Management Library interface Connect to RMAN without the recovery catalog Configure the RMAN environment</p>
25	<p>User-Managed Complete Recovery Describe media recovery Perform recovery in Noarchivelog mode Perform complete recovery in Archivelog mode Restore datafiles to different locations Relocate and recover a tablespace by using archived redo log files Describe read-only tablespace recovery</p>
26	<p>Recovery Catalog Creation and Maintenance Describe the contents of the recovery catalog Create the recovery catalog Maintain the recovery catalog by using RMAN commands Use RMAN to register, resynchronize, and reset a database Query the recovery catalog to generate reports and lists Create, store, and run scripts Describe methods for backing up and recovering the recovery catalog</p>
27	<p>Basic Net Server-Side Configuration Identify how the listener responds to incoming connections Configure the listener using Oracle Net Manager Control the listener using the Listener Control Utility (lsnrctl) Describe Dynamic Service Registration Configure the listener for IIOP and HTTP connections</p>
28	<p>Basic Oracle Net Services Client-Side Configuration Describe the difference between host naming and local service name resolution</p>
29	<p>Configuring the Database Archiving Mode Describe the differences between Archivelog and Noarchivelog modes Configure a database for Archivelog mode Enable automatic archiving Perform manual archiving of logs Configure multiple archive processes</p>
30	<p>Configure multiple destinations, including remote destinations</p>
31	<p>Oracle Recovery Manager Overview and Configuration Identify the features and components of RMAN Describe the RMAN repository and control file usage Describe channel allocation Describe the Media Management Library interface Connect to RMAN without the recovery catalog Configure the RMAN environment Perform recovery in Noarchivelog mode Perform complete recovery in Archivelog mode Restore datafiles to different locations Relocate and recover a tablespace by using archived redo log files</p>
32	<p>Transporting Data Between Databases Describe the uses of the Export and Import utilities Describe Export and Import concepts and structures Perform simple Export and Import operations List guidelines for using Export and Import</p>



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33	<p>User-Managed Incomplete Recovery Describe the steps of incomplete recovery Perform an incomplete database recovery Identify the loss of current online redo log files Basic Oracle Net Services Client-Side Configuration Describe the difference between host naming and local service name resolution Use Oracle Net Configuration Assistant to configure: Host Naming, Local naming method, Net service names Perform simple connection troubleshooting Usage and Configuration of the Oracle Shared Server Identify the components of the Oracle Shared Server Describe the Oracle Shared Server architecture Configure the Oracle Shared Server Identify and explain usefulness of related dictionary views</p>
34	<p>RMAN Backups Identify types of RMAN specific backups Use the RMAN BACKUP command to create sets Back up the control file Back up the archived redo log files Use the RMAN COPY command to create image copies</p>
35	<p>RMAN Incomplete Recovery Perform an incomplete database recovery using UNTIL TIME Perform an incomplete database recovery using UNTIL SEQUENCE</p>
36	<p>RMAN Maintenance Perform cross checking of backups and copies Update the repository when backups have been deleted Change the availability status of backups and copies Make a backup or copy exempt from the retention policy Catalog backups made with operating system commands</p>
37	<p>RMAN Complete Recovery Describe the use of RMAN for restoration and recovery</p>
38	<p>Loading Data into a Database Demonstrate usage of direct-load insert operations Describe the usage of SQL*Loader Perform basic SQL*Loader operations List guidelines for using SQL*Loader and direct-load insert</p>



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Term - 2		
No	Module	Duration (hrs)
14	Project -Application Development J2EE / JSP / Struts	40
Pre-requisites : - Knowledge of Java Programming Language - Knowledge of Web based programming Architecture		
Objective : - Develop skills to design and build scalable, secure, maintainable web applications - Delivery of scalable enterprise applications with complex web interfaces based on J2EE technologies - Knowledge of common web application design problems (J2EE Design patterns) - Through knowledge for developing applications in J2EE and web technologies such as Servlets, JSPs, EJBs & Struts		
Topics		
1	J2EE Application Architecture Technical Overview of J2EE J2EE Application Architectures (Web based)	
2	Servlets API Essentials Servlets Writing a Basic HttpServlet Form Processing Controlling Client Behavior Sessions and Cookies	
3	Writing JavaServer™ Pages Introduction to JavaServer™ Pages Basic JSP Syntax Implicit Objects Actions and JavaBeans™ Brief Overview of JSTL	
4	Web Applications Understanding Web Applications Configuring Web Applications Application and Session Events	
5	Security (Optional) Overview of Security Form Based Security Basic Authentication Programmatic Security	
6	Writing Custom Tags Introduction to Custom Tags Developing Custom Tags Developing Advanced Custom Tags (Optional)	
7	Getting Started with Struts Jakarta Struts Project MVC and Struts Review Servlets, JSP and Web Applications Struts Controller, Views and Resources	



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8	Your First Struts Application Configuring Struts applications Defining views & actions Defining FormBeans Action Mappings
9	Mapping the Model to the View Review of Using Custom Tags Introducing Struts Tags Using HTML Tags Using Bean Tags Using Logic Tags
10	Project Work
11	Uploading Files and I18N Uploading Files Internationalization
12	Advanced Form Management DynaActionForms The Validator Framework
13	Working with Tiles Using Tiles Advanced Tiles



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Term - 3		
No	Module	Duration (hrs)
15	Project -	160
	Online Document Management System	
	On-line Examination System	
	Course Management System	
	Online Shopping Cart	
	Human Resource Management System	
	eMail Engine (Similar to Outlook Express)	
	Application of SOAP Protocol (Example: Exchange of information from decentralized, distributed environment like the ATCs and integrating to NRC)	
Pre-requisites :		
- Thorough Knowledge of Microsoft .NET Tech, Java & Oracle DB.		
- Should be able to develop Application using any of the above mentioned technologies		
Objective :		
Should be able to relate and understand the practical usage of all learnt technologies given any development Module		
Steps to Project Completion		
1	Base-Line Business Requirements Statement (BRS) is given Assumptions should be created SRS should be developed - Data Flow Diagrams (Level 0 & 1) - Business Process Flows Detailed Design Specification (DDS)	
2	Non base-line BRS document is given Impact Analysis Document (IA) Change Request Document Feasibility Report	
3	Final SRS & DDS Presentation	



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Term - 3		
No	Module	Duration (hrs)
16	Internship	220
Pre-requisites : - Successfully complete all the Terms - Confident with all the technologies learnt during Term 1 & Term 2 - Able to communicate properly with the concerned Project leaders. - Successfully Complete the Assigned Module Sincerely		
Objective : - Successfully Complete the Assigned Module. - Successfully Undergo Certification Exams of MCP / SCJP / OCP with good grades - Get Certified by the SBS - Get Certified by the Internship Sponsored Company.		
Company Details for Internship Programm		