

COMPUTER SCHOOL

Computer Programming



iNTEC
COLLEGE
Leader in Distance Learning

Build your future the INTEC way

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- **Please note:** Internet access is required for all computer programming courses.
- All Microsoft software are OEM Versions.

Programme Type

INTEC offers three types of programmes, namely National Qualifications, Provider Programmes, and Agent Programmes:

National Qualifications are credit bearing qualifications registered on the NQF and accredited by a Quality Assurance Body.

Provider Programmes are unique to INTEC and are designed to increase and enhance your skills and knowledge within your chosen field.

Agent Programmes are programmes and qualifications for which INTEC offers tuition, but where INTEC does not issue the final certificate (the agent body issues the final certificate).

For more information about the types of programmes that INTEC offers, please see the INTEC General Brochure.

Launch your Computer Programming career the INTEC way!

Not only do you get paid well for a career in Computer Programming, but it is also fun. Launch your career in Computer Programming with an INTEC Computer School Programming Course.

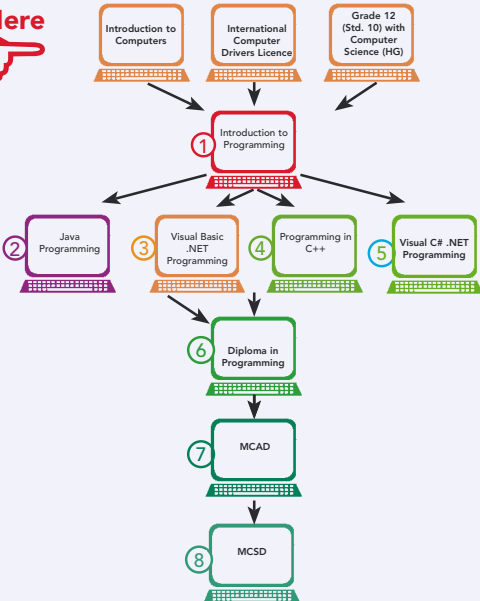
Your Computer Programming Career Path

No matter what course you decide on, you will have taken steps towards a lucrative career in the exciting world of Computer Programming. Established programmers can improve their existing careers and progress by enrolling on one of our advanced courses.

You can become:

- 1 a Basic Programmer
- 2 a Java Programmer
- 3 a Visual Basic .NET Programmer
- 4 a C++ .NET Programmer
- 5 a Visual C# .NET Programmer
- 6 an Application Programmer
- 7 a Microsoft Certified Application Developer
- 8 a Microsoft Certified Solutions Developer

Start Here

Introduction to Programming

INTEC's Introduction to Programming course deals with software design and aims to teach you the essential programming practice of design, before moving on to construction.

In this course you will learn how to define the problem properly, to divide it into modules, to design a solution algorithm and to prove the algorithm's correctness before commencing any programme coding.

Programme Type

The Introduction to Programming programme is a **Provider Programme**.

Career Opportunities

Since you need no experience in programming to do this course, it can open up a world of programming career opportunities for you. Be sure to lay a solid foundation and make this your first step towards pursuing a well-paid career in this specialised field.

Entrance Requirement


You must be PC literate.

Course Duration

You should be able to complete this course within 6 to 12 months.

Course Content

- Programme Design
- Pseudocode
- Developing an Algorithm
- Selection Control Structures
- Repetition Control Structures
- Pseudocode Algorithms using Sequence, Selection and Repetition
- Array Processing
- First Steps in Modularisation
- Further Modularisation, Cohesion and Coupling
- General Algorithms for Common Business Problems

 Standard PC Setup
(see page 30 for details)



Assessment

You are required to complete and submit your assignments to the College for marking.

Award

On successful completion of this course you will receive your INTEC Short Course Certificate in Introduction to Programming.

FREE Kit Items

- Textbook supplied
- No Software required



*INTEC College reserves the right to change the kit items without prior notice.



Introduction to Visual Basic .NET

This course has been designed as a comprehensive hands-on introduction to Visual Basic .NET. You will start with fundamentals if you are a beginner, and work through to advanced topics. This course will enable you to plan and create your own interactive Windows applications, even if you have no previous programming experience.

Programme Type

The Introduction to Visual Basic .NET programme is a **Provider Programme**.

Career Opportunities

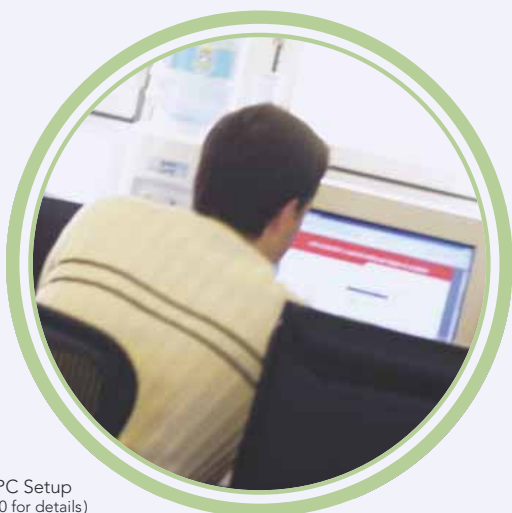
Upon successful completion of this course, you will have acquired new skills and good programming techniques, including flowcharting and naming conventions. You will also be able to design and create a Graphical User Interface (GUI). These skills will open doors for you in the well-paid programming industry.

Entrance Requirements

INTEC's Short Course Certificate in Introduction to Computer Programming or equivalent.

Course Duration

You should be able to complete this course within 12 to 18 months.



N Standard PC Setup
(see page 30 for details)



Course Content

- Introduction to Visual Basic .NET
- Selection and Repetition
- Sub-procedures, Function and Working with Strings
- Printing and Working with File Arrays

Assessment

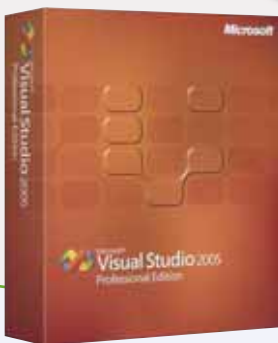
You are required to complete and submit your assignments to the College for marking.

Award

On successful completion of this course you will receive your INTEC Short Course Certificate in Introduction to Visual Basic .NET.

FREE Kit Items

- Textbook supplied



- Optional Software:
Visual Studio .NET
2005

*INTEC College reserves the right to change the kit items without prior notice.

Visual Basic .NET: Developing Windows Applications

NEW

This course is intended for software developers who need to design, plan, implement and support Windows-based applications, or who plan to take the related Microsoft Certified Professional (MCP) examination: Developing and Implementing Windows-based Applications with Microsoft Visual Basic .NET and Microsoft Visual Studio .NET.

Programme Type

Visual Basic .NET: Developing Windows Applications is an **Agent Programme**. Agent programmes are recognised by national and international bodies and institutes.

Visual Basic .NET: Developing Windows Applications is a Microsoft certification.

Career Opportunities

Become a Visual Basic .NET programmer who can develop applications for Windows using the .NET Platform.

Entrance Requirements

We recommend that:

- you have previous object-orientated programming experience;
- you have the ability to create a simple application using Visual Basic .NET;
- you have a knowledge of SQL; and
- that you have completed INTEC's Short Course Certificate in Introduction to Visual Basic .NET.

Course Duration

You should be able to complete this course within 6 to 12 months.

Course Content

- Introduction to the .NET Framework
- Creating the User Interface
- Types and Members
- Data Access using ADO .NET
- Object-orientated Programming and Polymorphism
- Creating Controls using the .NET Framework
- Advanced .NET Framework Topics
- Assemblies, Configuration and Security

Assessment

You are required to complete and submit your assignments to the College for marking.

The Visual Basic .NET: Developing Windows Applications course is externally examined at a Prometric Testing Centre. You will need to contact your nearest testing centre on **0800 575 575** two weeks in advance, before writing the external Microsoft Exam (Exam Number: 70-306). Please note that your exam fee is not included in your tuition fee.

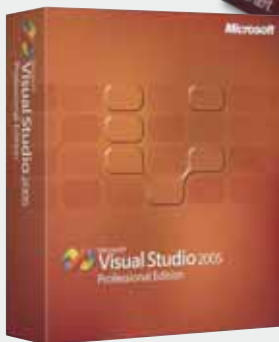
Award

On successful completion of your external exam, you will receive your internationally recognised Microsoft Certification in Visual Basic .NET: Developing Windows Applications.

Microsoft

FREE Kit Items

- Textbook supplied



- Optional Software: Visual Studio .NET 2005

*INTEC College reserves the right to change the kit items without prior notice.

N Standard + access to Visual Studio 2005 Standard Edition software.
(see page 30 for details)

Visual Basic .NET: Developing Web Applications

This course is intended for software developers who need to develop Web applications at an intermediate or advanced level or who plan to take the related Microsoft Certified Professional (MCP) examination: Developing and Implementing Web Applications with Microsoft Visual Basic .NET and Microsoft Visual Studio .NET.

Programme Type

Visual Basic .NET: Developing Web Applications is an **Agent Programme**. Agent programmes are recognised by national and international bodies and institutes.

Visual Basic .NET: Developing Web Applications is a Microsoft certification.

Career Opportunities

Become a Visual Basic .NET programmer who can develop web applications using the .NET Framework.

Entrance Requirements

We recommend the following:

- previous object-orientated programming experience;
- knowledge of HTML;
- knowledge of SQL; and
- that you have completed INTEC's Short Course Certificate in Introduction to Visual Basic .NET.

Additional PC Requirements

You will require the recommended standard PC setup. INTEC College offers the Visual Studio 2005 Standard Academic Edition software at an additional cost.

Course Duration

You should be able to complete this course within 6 to 12 months.

Course Content

- Introduction to Web Programming
- Creating Web Form Applications
- Working with Web Objects
- Creating a User Interface
- Storing and Retrieving Data with ADO .NET
- Catching and Correcting Errors
- Advanced Web Forms Programming
- Maintaining Security
- Building and Deploying Web Applications



- Testing Web Applications
- Creating Custom Web Controls
- Optimising Web Applications with Caching
- Formatting Web Application Output
- Providing Help
- Globalising Web Applications

Assessment

You are required to complete and submit your assignments to the College for marking.

The Visual Basic .NET: Developing Web Applications course is externally examined at a Prometric Testing Centre. Please contact your nearest testing centre on **0800 575 575** two weeks in advance, before writing the external Microsoft Exam (Exam Number: 70-305). Please note that your exam fee is not included in your tuition fee.

Award

On successful completion of your external exam, you will receive your internationally recognised Microsoft Certification in Visual Basic .NET: Developing Web Applications.

Microsoft

FREE Kit Items

- Textbook supplied



- Optional Software: Visual Studio .NET 2005

*INTEC College reserves the right to change the kit items without prior notice.



Standard + access to Visual Studio 2005 Standard Edition software. (see page 30 for details)

Introduction to Visual C# .NET

INTEC's Introduction to Visual C# .NET course will introduce you to the concept of object-orientation (OO), a type of structured programming.

Programme Type

The Introduction to Visual C# .NET programme is a **Provider Programme**.

Career Opportunities

Understanding the principle features of the C# language and being able to apply good C# programming practises, will add value to your CV when you apply for employment opportunities in programming.

Entrance Requirements


INTEC's Short Course Certificate in Introduction to Computer Programming or equivalent.

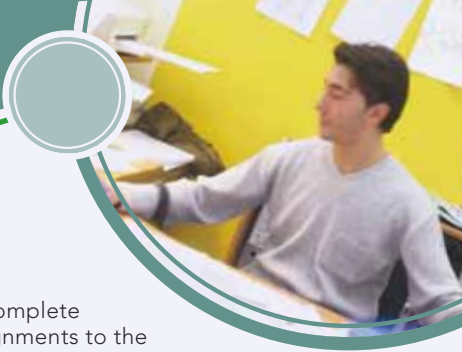
Course Duration

You should be able to complete this course within 12 to 18 months.

Course Content

- C# Fundamentals
- Introducing Data Types and Operators
- Programme Control Statements
- Introducing Classes, Objects and Methods
- More Data Types and Operators
- A closer look at Methods and Classes
- Operator Overloading, Indexes and Properties
- Inheritance
- Interfaces, Structures and Enumerations
- Exception Handling
- Using I/O and Delegates, Events, Namespaces and Advanced Topics

 Standard + access to Visual Studio Software.
(see page 30 for details)



Assessment

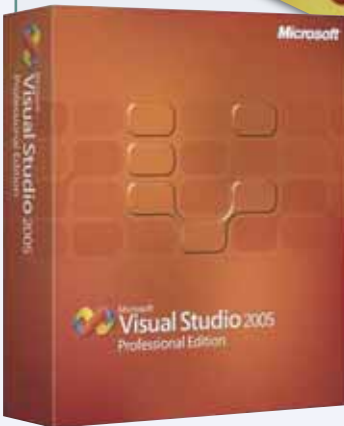
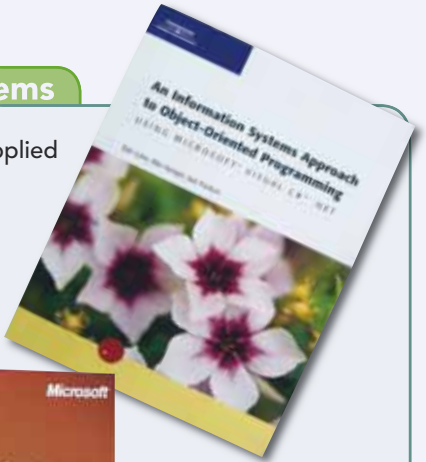
You are required to complete and submit your assignments to the College for marking.

Award

On successful completion of this course you will receive your INTEC Short Course Certificate in Introduction to Visual C# .NET.

FREE Kit Items

- Textbook supplied



- Optional Software:
Visual Studio .NET 2005

*INTEC College reserves the right to change the kit items without prior notice.

Visual C# .NET: Developing Web Applications

NEW

This course is intended for software developers who need to develop Web applications or who plan to take the related Microsoft Certified Professional (MCP) examination: Developing and Implementing Web Applications with Microsoft Visual C# .NET and Microsoft Visual Studio .NET.

Programme Type

Visual C# .NET: Developing Web Applications is an **Agent Programme**. Agent programmes are recognised by national and international bodies and institutes.

Visual C# .NET: Developing Web Applications is a Microsoft certification.

Career Opportunities

Earning a Microsoft Certification verifies your expertise in working with Microsoft products and technologies. A Microsoft Certification shows that you are a technical leader with the ability to successfully implement Microsoft business solutions for your organisation or client.

Entrance Requirements

We recommend that:

- you have previous object-orientated programming experience;
- you have knowledge of HTML;
- you have knowledge of SQL; and
- Completed INTEC Short Course Certificate in Introduction to Visual C# .NET.

Course Duration

You should be able to complete this course within 6 to 12 months.

Course Content

- Introduction to Web Programming
- Creating Web Form Applications
- Working with Web Objects
- Creating a User Interface
- Storing and Retrieving Data with ADO.NET



Standard + access to Visual Studio 2005 Standard Edition software.
(see page 30 for details)



- Maintaining Security
- Catching and Correcting Errors
- Advanced Web Forms Programming
- Building and Deploying Web Applications
- Creating Custom Web Controls
- Optimising Web Applications with Caching
- Formatting Web Application Output
- Globalising Web

Assessment

You are required to complete and submit your assignments to the College for marking.

The Visual C# .NET: Developing Web Applications course is externally examined at a Prometric Testing Centre. You need to contact your nearest testing centre on **0800 575 575** two weeks in advance, before writing the external Microsoft Exam (Exam Number: 70-315). Please note that your exam fee is not included in your tuition fee.

Award

On successful completion of your external exam, you will receive your internationally recognised Microsoft Certification in Visual C# .NET: Developing Web Applications.

Microsoft

FREE Kit Items

- Textbook supplied



- Optional Software:
Visual Studio .NET 2005

*INTEC College reserves the right to change the kit items without prior notice.

Visual C# .NET: Developing Windows Applications

NEW

This course is intended for software developers who need to design, plan, implement and support Windows-based applications, or who plan to take the related Microsoft Certified Professional (MCP) examination: Developing and Implementing Windows-based Applications with Microsoft VISUAL C# .NET and Microsoft Visual Studio .NET.

Programme Type

Visual C# .NET: Developing Windows Applications is an **Agent Programme**. **Agent programmes are recognised by national and international bodies and institutes.**

Visual C# .NET: Developing Windows Applications is a Microsoft certification.

Career Opportunities

Become a Visual C# .NET Programmer who can develop Windows-based applications using the .NET Framework.

Entrance Requirements

We recommend that:

- previous object-orientated programming experience;
- the ability to create a simple application using Visual C# .NET;
- knowledge of SQL; and
- completed INTEC Short Course Certificate in Introduction to Visual C# .NET.

Course Duration

You should be able to complete this course within 6 to 12 months.

Course Content

- Introduction to the .NET Framework
- Creating the User Interface
- Types and Members
- Object-orientated Programming and Polymorphism
- Testing and Debugging your Application
- Data Access using ADO .NET
- Creating Controls using the .NET Framework
- Advanced .NET Framework Topics
- Assemblies, Configuration and Security
- Deploying your Application



Assessment

You are required to complete and submit your assignments to the College for marking.

The Visual C# .NET: Developing Windows Applications course is externally examined at a Prometric Testing Centre. You will need to contact your nearest testing centre on **0800 575 575** two weeks in advance, before writing the external Microsoft Exam (Exam Number: 70-316). Please note that your exam fee is not included in your tuition fee.

Award

On successful completion of your external exam, you will receive your internationally recognised Microsoft Certification in Visual C# .NET: Developing Windows Applications.

Microsoft

FREE Kit Items

- Textbook supplied



- Optional Software:
Visual Studio .NET 2005

*INTEC College reserves the right to change the kit items without prior notice.

N Standard + access to Visual Studio 2005 Standard Edition software.
(see page 30 for details)

Introduction to Visual C++ .NET

The hands-on approach of this course will teach you the necessary skills to create applications using Visual C++ .NET.

Programme Type

The Introduction to Visual C++ .NET programme is a **Provider Programme**.

Career Opportunities

The knowledge you acquire in this course will prepare you for a career in programming. You could also work in any of the IT-related industries.

Entrance Requirements

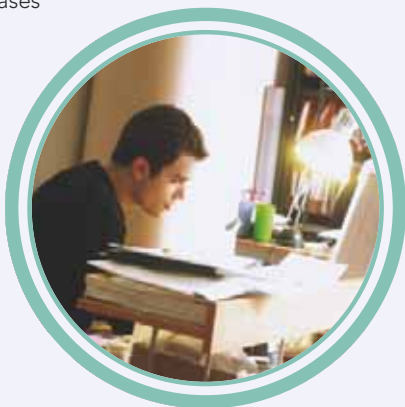
INTEC's Short Course Certificate in Introduction to Computer Programming or equivalent.

Course Duration

You should be able to complete this course within 12 to 18 months.

Course Content

- Introduction to Visual C++ .NET
- Operators and Control Structure
- Debugging
- Memory Management
- Object Manipulation
- Windows Programming using C++ .NET
- Designing the Visual Interface
- Connecting to Databases



Assessment

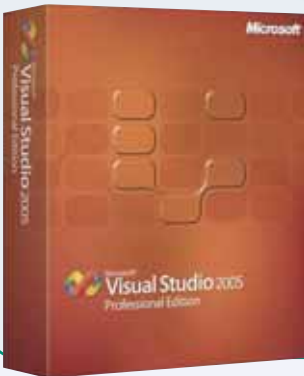
You are required to complete and submit your assignments to the College for marking.

Award

On successful completion of this course you will receive your INTEC Short Course Certificate in Introduction to Visual C++ .NET.

FREE Kit Items

- Textbook supplied



- Optional Software:
Visual Studio .NET 2005

*INTEC College reserves the right to change the kit items without prior notice.

Advanced Visual C++ .NET

This course will provide you with an introduction to the new .NET-specific features that Microsoft has added to Visual C++ to support .NET development. This new functionality is called the Managed Extensions for C++. C++ Programmers will also be provided with access to all the functionality in the .NET class libraries. This course also allows you to interoperate with existing C++ code, COM objects and the Win32 API.

Programme Type

The Advanced Visual C++ .NET programme is a **Provider Programme**.

Career Opportunities

This course is designed for both professional developers and developers new to Microsoft .NET Framework programming.

Entrance Requirements

You should have at least intermediate experience in a modern programming language, such as:

- C++; or
- Introduction to Visual C++ .NET; or
- Introduction to Visual C#; or
- Introduction to Visual Basic.


This course is designed for students at various skill levels.

Course Duration

You should be able to complete this course within 6 to 12 months.

Course Content

- C++ .NET Basics
- The .NET Framework
- Data Access
- Web Services
- Advanced Topics
- Managed Extensions

 Standard + access to Visual Studio 2005 Standard Edition software.
(see page 30 for details)

Assessment

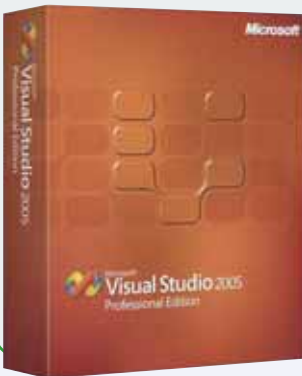
You are required to complete and submit your assignments to the College for marking.

Award

On successful completion of this course you will receive your INTEC Short Course Certificate in Advanced Visual C++ .NET.

FREE Kit Items

- Textbook supplied



- Optional Software:
Visual Studio .NET 2005

*INTEC College reserves the right to change the kit items without prior notice.

Introduction to Java

Due to the widespread applications of Java, it is rapidly becoming the backbone of e-business. Skilled developers are in high demand. This course will help you, as a first-time computer programmer, to understand the significance of Java, before moving on to developing programming skills in the areas of object-orientated and Java Technology. By the end of the course, you will be able to create programmes using a wide range of Java Technologies.

Programme Type

The Introduction to Java programme is a **Provider Programme**.

Career Opportunities

With virtually all businesses entering the e-business arena, this Introduction to Java Course will pave the way to a lucrative career. It is a specialised field and you could soon see yourself working in a number of fascinating industries, from web design studios to internal company IT departments. It may even be the first step towards starting your own web consultancy!

Entrance Requirements


INTEC's Short Course Certificate in Introduction to Computer Programming or equivalent.

Course Duration

You should be able to complete this course within 6 to 12 months.

Course Content

- Introduction to Java and Programme Design
- Creating a Java Application and Applet
- Manipulating Data Using Methods
- Decision-making and Repetition with Reusable Objects
- Arrays, Loops, and Layout Managers Using External Classes
- Creating a Java Calculator
- Designing User Interfaces with Swing
- Reading and Writing Data

- 
- Using Collections and Strings in a Reusable Class
 - Understanding Abstract Classes and Interfaces
 - Accessing Databases using JDBC
 - Utilising Servlets for Web Applications

Assessment

You are required to complete and submit your assignments to the College for marking.

Award


On successful completion of this course you will receive your INTEC Short Course Certificate in Introduction to Java.

FREE Kit Items

- Textbook supplied



*INTEC College reserves the right to change the kit items without prior notice.

 Standard PC Setup + Access to Java Software.
(see page 30 for details)

Java Programming

Because of the phenomenal growth in e-business, skilled programming developers are in high demand. INTEC College now offers you the opportunity to learn Java Programming skills and to apply them towards attaining the sought-after Java Certification. This comprehensive certification preparation kit from Wave Technologies is offered to you, as an experienced developer or programmer, seeking to add Java to your set of skills. The course also includes a comprehensive Introduction to Enterprise Java Programming concepts such as JDBC, RMI, Servlet/JSP programming and EJB's.

Programme Type

Java Programming is an **Agent Programme**. Agent programmes are recognised by national and international bodies and institutes.

Java Programming is a Sun Microsystems certification.

Career Opportunities

Excel in this specialised field and market yourself as a skilled Java Programmer. Develop websites that are secure, reliable and efficient for companies moving into virtual shopping malls.

Entrance Requirements

We recommend that you should:

- be able to create compiled programmes using a programming language such as C or C++; or
- have completed INTEC's Introduction to Java Programming course, and have created and compiled simple Java programmes.

You should also:

- be able to navigate on a Windows computer using the command prompt;
- have a solid working knowledge of basic Web development using HTML;
- be able to create and edit text files using a text editor; and
- be able to use the www (World Wide Web) browser.

Course Duration

You should be able to complete this course within 8 to 12 months.

Course Content

The 86001D Java Programming Curriculum CD contains the following five CBT (computer-based training) courses:

- Course 86001 Java 2 Programming Part 1: The Java Language
- Course 86002 Java 2 Programming Part 2: Objects and Classes

- Course 86003 Java 2 Programming Part 3: Core Language APIs, Threads and Exceptions
- Course 86004 Java 2 Programming Part 4: Building and Managing GUIs
- Course 86005 Java 2 Programming Part 5: Streams and Networking



The 86021D Java Enterprise Connectivity Curriculum CD contains the following five CBT (computer-based training) courses:

- Course 86021 Java 2 Enterprise Connectivity Part 1: Architecture and Client Development
- Course 86022 Java 2 Enterprise Connectivity Part 2: Java Server Pages and Servlets
- Course 86023 Java 2 Enterprise Connectivity Part 3: RMI and JDBC
- Course 86024 Java 2 Enterprise Connectivity Part 4: EJB Architecture, Session Beans and Security
- Course 86025 Java 2 Enterprise Connectivity Part 5: Entity Beans, EJB Transactions and Deployment

Assessment

This course kit prepares you for Level 1 and Level 2 of the JCert Course. On successful completion of the required assignments, you will be ready to write the external exams you need to pass to achieve these two levels of Certification. Please note that your exam fee is not included in your tuition fee.

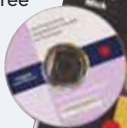
* Please contact Bytes People Solutions (contact person: Pieter Nel, Business Unit Manager on 011 205 7000 to purchase Exam vouchers and book exams)

Award

On successful completion of the external examinations, you will receive an internationally-recognised Certificate from Sun Microsystems.

FREE Kit Items

- Textbook supplied
- Software can be downloaded free from the Internet



*INTEC College reserves the right to change the kit items without prior notice.

Diploma in Computer Programming

Choose your preferred programming language and take it to the next level.

Programme Type

The Diploma in Computer Programming programme is a **Provider Programme**.

Career Opportunities

On successful completion of this course, you will have all the skills you need to start programming in the language of your choice – across a number of industries.

Entrance Requirements

Grade 12 (Std. 10) with Computer Studies or equivalent and having completed one of INTEC's Introductory Courses in Java, Visual Basic .NET or Visual C# .NET.

Course Duration

You should be able to complete this course within 18 to 24 months.

Course Content

Compulsory Subjects:

- Introduction to Computer Programming
- System Analysis and Design
- Information Systems Management

Plus one of the following optional subjects:

- Introduction to Java and Advanced Java
- Introduction to Visual Basic .NET and Advanced Visual Basic .NET
- Introduction to Visual C# .NET and Advanced Visual C# .NET

Assessment

You are required to complete and submit your assignments to the College for marking and complete 5 internal exams with INTEC College. Please note that INTEC exams are written in July and November of each year. Once you have passed all your assignments, you should complete an examination entry form and submit it to the College, together with the prescribed examination fee, before the closing date for the next examination.

Optional external exams

The advanced sessions of the optional subjects have external exams that can be completed if you want to also receive an additional internationally recognised certificate. These are examined at a Prometric Testing Centre. Please contact your nearest testing centre on **0800 575 575** two weeks in advance, before writing the external Microsoft exam. Please note that your exam fee is not included in your tuition fee.

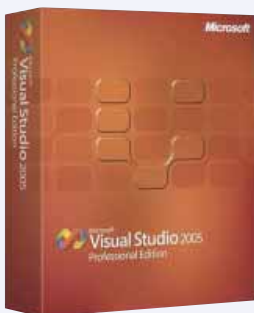
* Please contact Bytes People Solutions on 011 205 7000 to purchase Java exam vouchers and book your exams)

The optional external exams are as follows

- Advanced Java – Sun certified programmer for Java 2, Platform 1.2 (LX-310-025);
- Advanced Visual Basic .NET (Microsoft Exam Number 70-306); or
- Advanced Visual C# .NET (Microsoft Exam Number 70-316).

Award

On successful completion of the internal exams, you will receive your INTEC Diploma in Computer Programming.



- **Optional Software:**
Visual Studio .NET 2005

*INTEC College reserves the right to change the kit items without prior notice.

Microsoft Certified Application Developer (MCAD)

What are you waiting for to advance your programming expertise and career?

Now is the time to validate your Microsoft .NET Framework 1.0 and Microsoft .NET Framework 1.1 developer skills with the Microsoft Certified Application Developer (MCAD) for the Microsoft .NET credential.

The Microsoft Certified Application Developer (MCAD) credential provides industry recognition for professional developers who build powerful applications using Microsoft Visual Studio .NET and Web services on the Microsoft .NET Framework.

Programme Type

Microsoft Certified Application Developer (MCAD) is an **Agent Programme**. Agent programmes are recognised by national and international bodies and institutes.

Microsoft Certified Application Developer (MCAD) is a Microsoft certification.

Career Opportunities

Advance your career in the following fields:

- Software Developer
- Software/IT Engineer
- Application Engineer
- IT Product Manager

Entrance Requirements

Grade 12 (Std. 10) and we recommend that you are currently building .NET applications.

Course Duration

You should be able to complete this course within 12 to 24 months.

Course Content

The MCAD (with Visual Basic .NET) course consists of three courses, which should be studied in the sequence shown below:

Choose **ONE** of the following elective courses:

- Visual Basic .NET: Developing Windows-based Applications (Exam Number: 70-306)
- Visual Basic .NET: Developing Web Applications (Exam Number: 70-305)



The following **TWO CORE** courses are compulsory:

- Visual Basic .NET: Developing XML Web Services (Exam Number: 70-310)
- SQL Server 2000 Implementation (Exam Number: 70-229)

Note that you must elect either Visual Basic .NET (Windows Applications) OR Visual Basic .NET (Web Applications).

The MCAD (with C# .NET) course consists of the following three courses, which should be studied in the sequence shown below:

Choose **ONE** of the following elective courses:

- C# .NET: Developing Windows-based Applications (Exam Number: 70-316)
- C# .NET: Developing Web Applications (Exam Number: 70-315)

The following **TWO CORE** courses are compulsory:

- C# .NET: Developing XML Web Services (Exam Number: 70-320)
- SQL Server 2000 Implementation (Exam Number: 70-229)

Note that you must elect either C# .NET (Windows Applications) OR C# .NET (Web Applications).

Assessment

You are required to complete and submit your assignments to the College for marking.

The Microsoft Certified Application Developer Course is externally examined at a Prometric Testing Centre. Please contact your nearest testing centre on **0800 575 575** two weeks in advance, before writing the external Microsoft Exams. Please note that your exam fees are not included in your tuition fee.

Award

On successful completion of your 3 external exams, you will receive your internationally recognised Microsoft Certification in Certified Application Developer.

- **Optional Software:** Visual Studio .NET 2005

Microsoft Certified Solutions Developer (MCSD)

The Microsoft Certified Solution Developer (MCSD) for Microsoft .NET credential is the top-level certification for advanced developers who design and develop leading-edge enterprise solutions, using Microsoft development tools and technologies as well as the Microsoft .NET Framework.

Programme Type

Microsoft Certified Solutions Developer (MCSD) is an **Agent Programme**. Agent programmes are recognised by national and international bodies and institutes.

Microsoft Certified Solutions Developer (MCSD) is a Microsoft certification.

Career Opportunities

Advance your career in the following fields:

- Application Developer
- Software Engineer
- Systems Analyst
- Systems Engineer
- Web Developer

Entrance Requirements

Grade 12 (Std. 10) and at least 2 years experience in developing and maintaining solutions and applications.


Course Duration

You should be able to complete this course within 12 to 24 months.

Course Content

The MCSD (with C# .NET) course consists of the following five courses:

- C# .NET: Developing Windows-based Applications (Exam Number: 70-316)
- C# .NET: Developing Web Applications (Exam Number: 70-315)
- C# .NET: Developing XML Web Services (Exam Number: 70-320)
- SQL Server 2000 Implementation (Exam Number: 70-229)
- Analysing Requirements and Defining Microsoft .NET Solution Architectures (Exam Number: 70-300).



The MCSD (with Visual Basic .NET) consists of the following five courses:

- Visual Basic .NET: Developing Windows-based Applications (Exam Number: 70-306)
- Visual Basic .NET: Developing Web Applications (Exam Number: 70-305)
- Visual Basic .NET: Developing XML Web Services (Exam Number: 70-310)
- SQL Server 2000 Implementation (Exam Number: 70-229)
- Analysing Requirements and Defining Microsoft .NET Solution Architectures (Exam Number: 70-300)

Assessment

You are required to complete and submit your assignments to the College for marking.

The Microsoft Certified Solutions Developer Course is externally examined at a Prometric Testing Centre. Please contact your nearest testing centre on **0800 575 575** two weeks in advance, before writing the external Microsoft Exams. Please note that your exam fees are not included in your tuition fee.

Award

On successful completion of your external exam, you will receive your internationally recognised Microsoft Certification in Certified Solutions Developer.

FREE Kit Items



- **Optional Software:** Visual Studio .NET 2005



*INTEC College reserves the right to change the kit items without prior notice.

PC REQUIREMENTS

INTEC College recommends the following requirements for a standard PC setup. If additional hardware or software is required you will find this information listed with the specific course information.

Standard PC Requirements:

- Pentium Processor (PIII 650 MHz and above recommended)
- 192 Megs of RAM
- DVD Drive
- 16 Bit Sound Card
- VGA Display Monitor
- 4.5 Gig HDD Space
- Windows Operating Systems 2000/XP
- Microsoft Office 2003/XP – (optional except for MOUS)
- Internet Access is essential

INTEC COMPUTER SCHOOL

Why do a Computer Course with INTEC College?

In today's world, a computer skill, even the most fundamental Word Processing and Data Processing abilities, like using MS Word and MS Excel, could help you when you look for the perfect job.

Interested in working overseas and travel opportunities? Some of INTEC's computer courses give you the opportunity to achieve an internationally-recognised learning programme. You don't have to put your life on hold while you are doing the course. Complete the exams through any Prometric Testing Centre in South Africa and gain your passport to the world of computer expertise.

From the Principal's desk

Take your next step now!

Follow through on your decision to enhance your life and your future prospects by enrolling in one of INTEC's Computer Programming courses today!



Why study with us?

- Quality study material designed specifically for home-study.
- The freedom to study at YOUR pace, where and when it suits YOU.
- The widest range of courses for today's world.
- Free consultations with INTEC's career counselling and development specialists.
- Free study choice advice from INTEC's Student Consultants.
- The convenience of online enrolment, contact and advice.
- Affordable, easy payment options.
- Ongoing study support and individual attention from qualified tutors.

College Accreditation

INTEC College is committed to meeting legislative requirements regarding accreditation and registration of private education and training providers. We were among the first private education and training providers to receive provisional accreditation from Umalusi, the Council for Quality Assurance in General and Further Education and Training.

INTEC College's accreditation number is FET 00037 PA.

Our Student Consultants are only a phone call away. They are trained to help you choose the course that's right for you. Call them now, or simply fill in the enclosed enrolment form and mail it to INTEC College.

Wishing you every success in your studies and your future!

Chris Merts

Dr. Chris Merts

Dean of Distance Education Development



go to: www.intec.edu.za or email: info@intec.edu.za

Call a Student Consultant:

JOHANNESBURG

Tel: 011 712-2555

Fax: 011 712-2521

CAPE TOWN

Tel: 021 426-0626

Fax: 021 426-0771

PORT ELIZABETH

Tel: 041 373-3771

Fax: 041 373-3688

DURBAN

Tel: 031 374-9700

Fax: 031 301-8184

PRETORIA

Tel: 012 352-9000

Fax: 012 322-6369

INTEC College (PTY) LTD FET 00037 PA is a member of both the National Association of Distance Education Organisations in South Africa (NADEOSA) and the Association of Private Providers of Education, Training and Development (APPETD).

