

# Introductory Lecture Notes on Computer Programming

These notes are for students taking a computer programming course in the University of Gaziantep. Here, the basic parts of a computer and ideas about problem solving with computers are introduced. A definition of flowcharts and algorithms are given at the end.

## 1. Course Resources

### Web:

- Course web page → [www.gantep.edu.tr/~bingul/ep241](http://www.gantep.edu.tr/~bingul/ep241)
- University of Gaziantep C++ resource page → [cpp.gantep.edu.tr](http://cpp.gantep.edu.tr)  
(you are responsible for everything under the tutorial link)
- C++ Resources Network → [www.cplusplus.com](http://www.cplusplus.com)
- C++ Reference → [www.cppreference.com](http://www.cppreference.com)
- Türkçe 'C Programlama Dili'ne Giriş: [www.gantep.edu.tr/~bingul/c/](http://www.gantep.edu.tr/~bingul/c/)

### Books:

- Programming with C++, John R. Hubbard, Schaum Outline Series (2000)
- Practical C++ Programming, Steve Oualline, O'Reilly Media (2003)

## 2. Computers and Programming

A computer is an automatic device that performs calculations, making decisions, and has capacity for storing and processing vast amounts of information. A computer can be divided into two main parts: *hardware* and *software*.

### Hardware (=Donanım)

Hardware is the electronic and mechanical parts of the computer.

Examples of common hardware is given below:

<i>Storage Units</i>	<i>These are used in both input and output of data:</i> HDD ("Hard Disk Drive") – high capacity. RAM ("Random Access Memory") – low capacity, expensive, but very fast. Others: Flash memory (memory cards, USB flash drives), CD, DVD.
<i>Input Units</i>	<i>Used for input of data:</i> Keyboard, Mouse, Touch screen/pad, RAM, HDD, Flash memory.
<i>Output Units</i>	<i>Used for output of data:</i> Monitor, Printer, Speaker, RAM, HDD, Flash Memory
<i>Process Unit</i>	CPU: Central Processing Unit. <i>This coordinates the operation of computer system and performs arithmetic logic operations.</i>

# Programming Tutorials And Lecture Notes

**Bozzano G Luisa**



## **Programming Tutorials And Lecture Notes:**

*S. Chand's ICSE Commercial Applications for Classes 9* Dr. S. Rajesh, S Chand's ICSE Commercial Applications for Classes 9

**Tutorial Programming Productivity** Capers Jones, 1986 This tutorial volume on productivity issues for the eighties attempts to place programming in context with other disciplines and address five major topics programming measurements programming life cycle analysis programming equipment and design methods programming environmental and the new science of software Abstract

**Reasoning Web** Pedro Barahona, François Bry, Enrico Franconi, Nicola Henze, Ulrike Sattler, 2006-08-29 This book presents thoroughly arranged tutorial papers corresponding to lectures given by leading researchers at the Second International Summer School on Reasoning Web in Lisbon Portugal in September 2006 Building on the predecessor school held in 2005 and published as LNCS 3564 the ten tutorial lectures presented provide competent coverage of current topics in semantic Web research and development

**Formal Models and Semantics** Bozzano G Luisa, 2014-06-28 The second part of this Handbook presents a choice of material on the theory of automata and rewriting systems the foundations of modern programming languages logics for program specification and verification and some chapters on the theoretic modelling of advanced information processing

*Foundations of Security Analysis and Design II* Riccardo Focardi, 2004-01-28 Security is a rapidly growing area of computer science with direct and increasing relevance to real life applications such as Internet transactions e commerce information protection network and systems security etc Foundations for the analysis and design of security features of such applications are badly needed in order to validate and prove their correctness This book presents thoroughly revised versions of six tutorial lectures given by leading researchers during two International Schools on Foundations of Security Analysis and Design FOSAD 2001 2002 held in Bertinoro Italy in September 2001 and September 2002 The lectures are devoted to Formal Approaches to Approximating Noninterference Properties The Key Establishment Problem Name Passing Calculi and Cryptoprimitives Classification of Security Properties Network Security Cryptographic Algorithms for Multimedia Traffic Security for Mobility

**Mathematical Structures for Software Engineering** Bernard De Neumann, Dan Simpson, Gil Slater, 1991 This volume is concerned with the application of formal mathematical methods in software engineering As the design writing and testing of software becomes a major sector of economic activity the need for rigorous techniques has also grown The papers in this book are devoted to various mathematical structures which find use in aspects of software design and they cover topics such as the formal specification of systems the design of communications software and concurrent processing All the contributors are experts in their respective fields As a result this collection provides a timely survey of this rapidly growing area Software engineers and computer scientists will find this work to be an invaluable reference source Mathematicians will appreciate the discussions of the contribution that their discipline can make and the interesting challenges for the future

ACM SIGGRAPH '89 Course Notes, 1989

**Tutorial, Software Reusability** Peter Freeman, 1987

*Parallel Combinatorial*

*Optimization* El-Ghazali Talbi,2006-12-13 This text provides an excellent balance of theory and application that enables you to deploy powerful algorithms frameworks and methodologies to solve complex optimization problems in a diverse range of industries Each chapter is written by leading experts in the fields of parallel and distributed optimization Collectively the contributions serve as a complete reference to the field of combinatorial optimization including details and findings of recent and ongoing investigations     **Introduction to C++** Paul Gent,2017-07-12 An easy to read introduction to programming in C which assumes some basic programming knowledge Illustrated throughout with code samples and includes suggested tutorial exercises without solutions for review purposes Based on slides written to deliver Introduction to Programming in C C 101     **Tutorial, Software Development Environments** Anthony I. Wasserman,1981     **Tutorial** Sol M. Shatz,Jia-Ping Wang,IEEE Computer Society,1989     **Tutorial, Microprogramming and Firmware Engineering** Veljko Milutinović,1989     □□□□□□□□□□□□□□□□□□□□ ,1985     **Tutorial on Software Restructuring** Robert S. Arnold,1986 This tutorial is devoted to putting structure back into software whether the lack of structure results from software maintenance or from software development Preface     *Tutorial, Programming Language Design* Anthony I. Wasserman,1980 Presents programming language design and recent advances in the field     **Tutorial, Software Quality Assurance** Tsun S. Chow,1985     **FME 2001: Formal Methods for Increasing Software Productivity** Jose N. Oliveira,2001-02-28 This book constitutes the refereed proceedings of the International Symposium of Formal Methods Europe FME 2001 held in Berlin Germany in March 2001 The 32 revised full papers presented together with abstracts of three invited talks were carefully reviewed and selected from a total of 72 submissions Focusing on increasing software productivity all current aspects in formal methods are covered Among the application areas addressed are avionics smart cards financial engineering E commerce middleware security telecommunications etc     *Tutorial on Software System Design* William E. Riddle,Jack C. Wileden,1980 The papers in this tutorial collection discuss various techniques applicable to the design activities that occur prior to the actual coding of a software system Preface     □□□□□□□□□□□□□□□□□□ □□□□□□ (Japan),1900

## **Programming Tutorials And Lecture Notes** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Programming Tutorials And Lecture Notes**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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web nov 14 2021 there are many types of earthing systems which include plate earthing pipe earthing rod earthing and chemical earthing plate earthing in this type of earthing a plate made up of galvanised copper or iron is buried vertically at a depth of not less than 3m from ground level

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web earthing is the method of transmitting the instant electricity discharge directly to the ground through low resistance wires or electrical cables this is one of the significant features of electrical networks because it builds the most eagerly accessible and hazardous power source much secure to utilize electrical earthing

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web plate earthing diagram explained plate earthing is implemented when a plate made up of either copper or galvanized iron gi is buried vertically in the earth

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web include the earthing resistance and the minimum size of the earthing conductor which can be calculated using various methods as part of the design methodology lim s c and al shawesh y 35 proposed a systematic step by step approach for the design of reliable and effective earthing systems for low voltage

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web there are several methods of earthing like wire or strip earthing rod earthing pipe earthing plate earthing or earthing through water mains most commonly used methods of earthing are pipe earthing and plate earthing these methods are explained below in

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web nov 17 2023 abstract plate tectonics is a tectonic style thought to be the hallmark of habitable planets department of earth and planetary sciences yale university new haven ct usa correspondence to and that a convective regime diagram for terrestrial planets is within reach

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web in the case of a plate earth electrode the earthing of the conductor shall be securely terminated onto the plate with two bolts nuts check nuts and washers in the pipe earth electrode wire type earthing conductor shall be secured using nuts washers bolts and washers and terminating socket

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web various types of earthing are mentioned below plate earthing pipe earthing strip earthing plate earthing the most efficient way of earthing is plate earthing which involves installing a galvanized copper plate 3m deep in

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web plate earthing fig 3 plate earthing for this form of earthing a plate composed of copper or galvanized iron is placed vertically in the ground pit less than three meters above the ground for a more effective electrical grounding system one must maintain the earth's moisture condition surrounding the plate earthing system

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web sep 22 2022 if a copper or an iron plate is used as an earth electrode then this system of earthing is called plate earthing in pakistan both copper as well as iron type earthing plates are used copperplate tends to be 2 feet long 2 feet wide and 1/8 inches thick 600 x 600 x 3 millimeters whereas the size of the iron plate is 2 feet x 2 feet x 1/4 millimeter

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web nov 1 2023 overview test series earthing is the process of transferring and immediate discharge of electrical energy to the earth directly through a low resistance wire the release and transmission of electricity in an applied electric field through gas as a medium is known as an electric discharge

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web earthing iee wiring matters autumn 2005 iee org 21 2 requirements of bs 7671 earth electrodes bs 7671 recognises a wide variety of types of earth electrode regulation 542 02 01 lists the types recognised which include earth rods earth plates and figure 5 tt system figure 6 no earth provided tt system based on 25 mm<sup>2</sup> tails and

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web jun 11 2021 earthing symbol the diagram of the electrical earthing system is shown below earthing uses whenever there is a leakage in the electric current and due to that the electric earthing or earthing system comes in handy to eliminate the heavy current

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web jul 12 2021 plate earthing in this method as illustrated in fig 1 the earth wire is securely bolted to the earth plate either of copper minimum size 60 cm 60 cm 3 18 mm or of galvanized iron minimum size 60 cm 60 cm 6 35 mm buried in the ground to the depth of 3 m

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web mar 1 2018 strip or wire earthing plate earthing in this type of earthing a plate made up of galvanized iron or copper is buried vertically at a depth not less than 3m from the ground level the dimension needed for galvanized iron plate is 60cmx60cmx6 35mm and that for copper plate is 60cmx60cmx3 18mm

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web in plate earthing an earthing plate made of copper or g i is buried into the ground at a depth more than 3 metres from the ground level this earthing plate is embedded in an alternative layer of coke and salts strip earthing is used in transmission processes

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web plate earthing in the plate earthing system a plate made of either copper with dimensions 60cm 60cm 3 18mm i e 2ft 2ft 1 8 in or galvanized iron gi with dimensions 60cm 60cm 6 35 mm 2ft 2ft ¼ in is vertically buried in the earth earth pit and it should not be less than 3m 10ft from the ground level

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web feb 27 2023 plate earthing is a type of electrical earthing in which a metal plate is buried in the ground and connected to the electrical system the plate used for earthing is typically made of copper steel or galvanized iron the size of the plate depends on the type of soil current to be grounded and other factors

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