

University of Technology
Computer Engineering Department
Academic Year 2023 - 2024

**Second Year – First Semester – Information Technology Branch-
 Network Branch**



CE233	Object Oriented Programming	2 Hours/Week	2 Units
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Contents of Syllabus	Hours
<ul style="list-style-type: none"> • Overview of "Programming Fundamentals" module: Pointers + functions 	2
<ul style="list-style-type: none"> • Principles of object oriented programming including classes 	2
<ul style="list-style-type: none"> • Introduction to Object-Oriented Paradigm: Structures 	2
<ul style="list-style-type: none"> • Classes: Class Definition; Accessing Data Members and Member Functions. 	2
<ul style="list-style-type: none"> • Constructors and Destructors. Constant Objects and Constant Member Functions. 	4
<ul style="list-style-type: none"> • Friend Functions and Friend Classes 	4
<ul style="list-style-type: none"> • Templates: Function Templates Class Templates 	4
<ul style="list-style-type: none"> • Inheritance: Base Class and Derived Class Using Member Functions; Overriding Base Class Members in a Derived Class Public, Private, and Protected Inheritance 	6
<ul style="list-style-type: none"> • Virtual Functions, Polymorphism, and 	2
<ul style="list-style-type: none"> • Overloading Operator Overloading 	2

References

1. Object Oriented Programming with C++ by E Balagurusamy, fourth Edition 2008 , published by Tata McGraw –Hill.
2. Object Oriented Programming in C++ by Robert Lafore ,fourth Edition ,sams pub,2002

اسم التدريسي: م.م زينب محمود فاضل