

CA9125 OBJECT ORIENTED PARADIGM AND PROGRAMMING

L T P C

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UNIT I 9

Introduction – Learning C++ - Design of C++ - History and Use – Programming Paradigms – Standard Library – Types and Declaration – Pointers, Arrays, Structures – Expressions and Statements – Functions – Namespaces and Exceptions – Source Files and Programs

UNIT II 9

Classes – User-Defined Types – Objects – Operator Overloading – Operator Functions – Complex Number

UNIT III 9

Type Conversion Operators – Friends – Large Objects – Essential Operators – Subscripting – Function Call – Dereferencing – Increment and Decrement – String Class – Derived Classes – Abstract Classes – Design of Class Hierarchies

UNIT IV 9

Templates – Function Templates – Error Handling – Grouping of Exceptions – Catching Exceptions –

UNIT V 9

Resource Management – Multiple Inheritance – Access Control – Run Time Type Information

TOTAL: 45

REFERENCES

1. Bjarne Stroustrup, "The C++ Programming Language", 3rd ed., Pearson Education, 2007.
2. Ira Pohl, "Object-Oriented Programming using C++", 2nd ed., Pearson Education, 1997.
3. Lafour Schildt, C++ Complete Reference,