SUBJECT: UNDERGRADUATE COURSE
CURRICULUM2023-24

P	ΔŢ	RT-A: Introdu	CURRICULU	M2023.	24	
Program: Diploma Co			Telling to the second		Session	n:2023-2024
2	_	ourse Title	CSSC-4T			
3	_	ourse Type	Object Oriented Programming			
4	_		Discipline Specific Course (DSC)			
5		Pre-requisite (if, any) As per Government norms / Institutional scheme Course Learning. After completion of this course, the students will be able to:				
	Oi	itcomes (CLO)	After completion of this course, the students will be able to: > Understand concept of OOP			
		(-20)	 Develop concept of classes and objects. Will help to understand basics of program flow. Learn Array processing coupled with iterative methods. Learn concept of inheritance and polymorphism. 			
6	Cr	dit Value 04 (03 Theory & 01 Practical)				
7	To	otal Marks Max. Marks: 100		Min Pass	Min Passing Marks: 40	
A	RT	-B: Content of the	he Course	•		
			Total No. of Teaching-learning - H	ours- 45		
U	nit		Topics (Course contents)			No. of Hour
1	1	Programming Para Classes, Data abstraction to Constructure of C++ Constants, Strings, defined data types, Operators and opera		ng Paradigm, ism, Dynamic +, Program fea Keywords, Io	Objects, Binding, atures and dentifiers.	12
II III		Control Structures: Control Structures (Sequence, Selection, Loop), switch case, break, continue, arrays, pointers. Functions in C++: Function prototyping, call by reference, return by reference, Inline functions, Default arguments, function overloading, string handling functions.				**
		Classes & objects in C++: Structure, specifying class, creating objects, accessing class members, Defining member functions, constructors, types of constructors, destructors, Operator overloading.				11
		Inheritance in C++: Forms of inheritance: Single inheritance, Multiple Inheritance, Hierarchical Inheritance, Multilevel Inheritance, Hybrid Inheritance, virtual base class, Polymorphism, static and dynamic binding, Virtual functions, abstract class, void pointer, friend class, friend function, operator overloading.				11

.

Me Find

John

PART-C (CSSC -4T)

Learning Resources: Text Books, Reference Books and Others

Text Books:

- Object-Oriented Programming with C++, E. Balaguruswamy, TMH.
- C++ The Complete Reference, Herbert Shildt, Osborne, TMH.
- C & C++ Complete reference, Herbert Shieldt, Osborne, TMH

Reference Books:

- C++ Primer Plus, Stephen Prata, Galgotia Publications, 1996
- Object-Oriented analysis and Design with applications, Grady Booch

Online Resources / e-learning resources:

- https://diksha.gov.in/
- https://ndl.iitkgp.ac.in/
- https://swayam.gov.in/explorer?category=SCHOOL

PART - D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks:

100 Marks

Continuous Comprehensive Evaluation (CCE):

20 Marks

Semester End Exam (SEE):

80 Marks

Continuous

Internal Assessment: Class Test : 02 of 10 Marks each Average of the marks obtained in both test Assignment: 01 of 10 Marks

Comprehensive

(out of 10) and marks obtained in assignment

(out of 10) shall be considered against 20 Marks of Internal assessment

Evaluation (CCE)

Paper (Two section – A & B)

Semester End Exam (SEE):

Section A: Objective and Short answer type questions : 10 + 10 = 20 Marks

Section B: Descriptive answer type questions unit wise : $15 \times 04 = 60$ Marks