It lecture -50 Topic: Revisiting pointers 20 ct+ # (cefyri 51 rapic polyers to objects # Leafur = 52 Topic: Array of objects using pointers. # Lecture: 52: Topic : Tris positer in ctt I Leetyn; sy Topoic: polymorphism in ett poly Horphism to of (1) Cometion or Brading Log call Logs Run Time Compile Time न पता होता है poly worthism polymorphism The election Late Brimoring Ro Run Loga early Biary Virtual Gynetian operator function overloading over lo Ding It lecture: 55 Topic: Pointers to Derived Wars important Revisi # (eefyr: 56 Topic: Virtue sunction, in ett # (ceture 57 Topic: Virtual function Rules in C++

GRE M T W TOFELS 4 MAN YOUVA Topic; abstract Ban clay and Virtual Function. H (ecture: CT Topic: Working with files It Lufyn: 60 Topic - Read / write # lecture: 61 Topic: & Read + write Topic: working with files confect - can print on consoli Console output 2'uput Screw Haiter Ruyboard an interfere for data - (rangle august Stream

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It lecture; 61					
Topic : Read + write in one program.					
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C++: file To [Reading & writing to a file]					
& 3 weful class					
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2. if Stream	_ ^	Fstream	>		
3. of stream			· · · · · · · · · · · · · · · · · · ·	- 1	
	- 1		s .e.		
A Read operation		* write	operat	ion	
			· · · · · ·		
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# Lecture f 62 Topic f file ITO using	dro	m () X F	70 K No.		
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It Leefure ? 63					
Topie & Indraduction to Templates					
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> General programming		yourself.	•		
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	Page No.:
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Introduction STL	V
	V
STIS Standard Template libaray.	
Ly Cibrary of Generic class	s and function.
0	
STL: Complétifire : programming L'mited Trème	
Leur : Well tested Compone	la n
- Reus : well tested compone	ups HP Atex
- Time saving	Merg D
A Component of STL	
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a. Algorithms > sorting, scorting, we	emplate Genetia
3: Iterators	
Algorithmy > sorting, scorting, who is object, points to an	elevent in a
Container	
Le promoted just like	pointer
Connets : Algorithm	SITH CAPETY
# Lecture: 70	
Topic: Types of STL Containers	<u> </u>
STL= Containers + Algo + Iteres	ons .
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1 - 1	
"Le rector, list, dequace i.e. Set, Multiset, Map, Muttimep	Stack Our

M T W T

Plesia Automatically Array
Page No.: when to use which? Dequeuce Conjoiners 4) rector -> Raudom Access -> Cost rissection Da Hiddle - slow risection at the end - fast list -> Random Acces -> slow sellinsestion in the Hiddle of fast. pelpinsurtia of the end - fas & Desociative contoujers All operations are fast except landom fecer Derived Confainer - Depends upon -> pate Structure # leeters 71 Topic - vectors in C++ STL. Vector Manage its size # leefun ; 72 Topic: Cits in e++ STL # lecture = 72 Topic: Maps in C++ STL Sample program. # Lecture = 74 Topic; functors in C++ STL

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