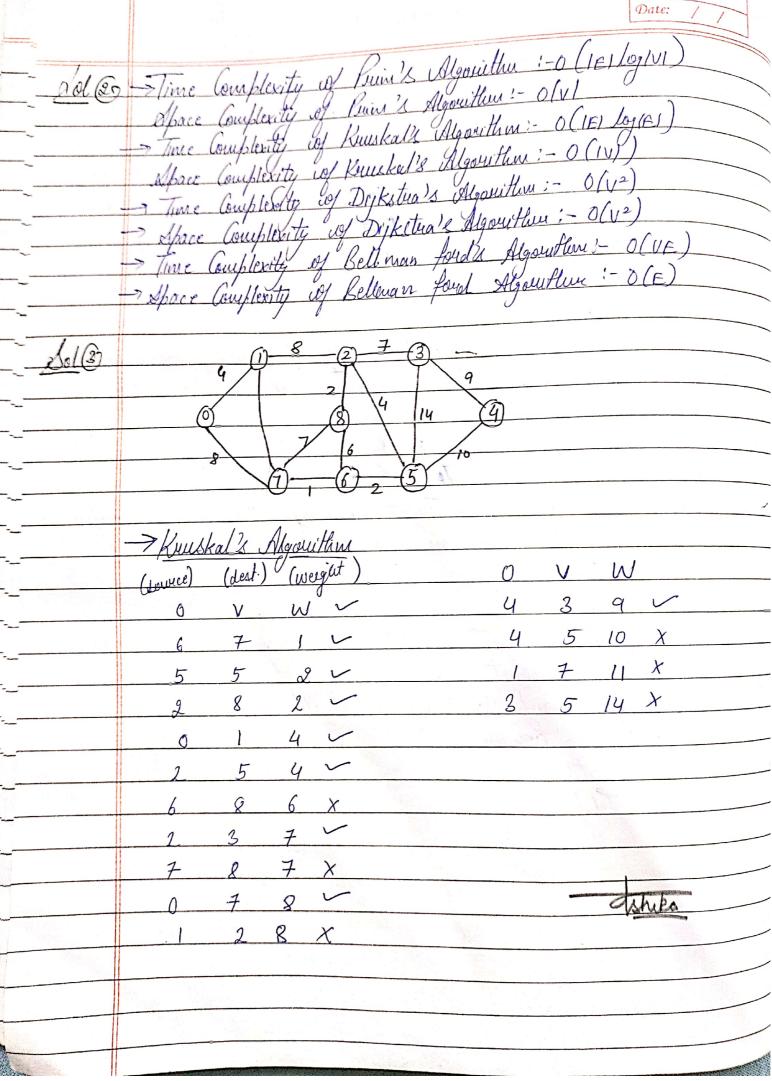
accided with the second of the	Lutorial -6
dol 3	Minimum Shanning Tuce: - A minimum Manning tuce (MST) -
	By minimum weight abannian there is a subset of the
	edge of a Connected edge-wighted underected unable that
and the latest and th	connects all the voltices together without any cycles
and the second s	Minimum Spanning Tuce: - A minimum Spanning three (MST) - oy minimum weight spanning three is a subset of the edge of a Connected, edge-weighted underected graph that connects all the voltices together, unithout any cycles and with the minimum possible dotal edge weight
->	Applications
(i)	Consider and stations are to be linked using a Communicatione network and lying of Communications duik between any two stations unvolves in Cost.
	network and lying of Communications duk between any
	Two stations unvolves in Cost.
(The edeal Dolulion avoided of to extract a Misgraph refused as
3	minimum and spanning tree.
(ii)	duppose you want to Construct highways or Hailwards Sprinning deveral cities then we can use the sourcest of minimum
	devenal cities then we can use the sourcept of minimin
	Spanning affec.
(iii)	Darley Carlo
(iv)	Loughing pipelines Connecting offshore duilling sites, vietnovies and Consumer markets
(u)	Suppose you wont to apply a get of homes with
(V)	Suppose you want to apply a set of houses with - Electric hower
*	- diater
	- Celéphone lines
	- Teléphone lines - Lewaye duies
1	thita
an the second	



	Page:
	Date: / /
7.0	The shortest both may change The vierson is there may - fe different number of edge in different paths from - (c) to it for Emayble, let shoulest fath be of weight 15 and -
_alice	to destroyent number of ear in determine its ande may
	to to it for Emulle let about the de of wife and
	has edge 5 edges. Let there be another path with 2 edge -
	and dotal juight 05. The winder of the shortest path is
	and north langue as me waged to the should poin as
n colonia de la companio de la comp	inercased by 5 10 and becomes 15 +50 Weight of The
	wither fath is increased by 2 to and becomes 25+ so.
	A the Shoutest path changes do the other path witch weight
	Cal 15 114 11 11 11 11 1 1 1 1 1 1 1 1 1 1
novincianas, para haid a a statuma, major para para para para para para para pa	(ii) If we multiply all edges usuglit by 10, the shorted fath
3	Loverit shause The season is simple wright of all pall
	From S 10 to get mulipued by same amount. The number
	of colors com a fath doesn't matter. It is like changing
	unit of weights
dia	7 1 + 11 11 11 11 11 11 11 11 11 11 11 11
<u> </u>	> Dijkatra Algorithm
	0 (5) = 2 3 9 4 6
outhurs and a second	
	nocle Shortest dist. from 5 7 7 9 p 7
- A	Nouvice node 2
	$V = \frac{3}{9}$
	u 7
•	- aluba
	The state of the s

