





Academic Year	Module	Assessment Number	Assessment Type
S20	Introductory Data Structures and Algorithms (DipIT02)	A1	Assignment Submission

[Assignment Submission]

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Section : [DC8]

Module Leader : [Mr. Prakash Gautam]

Submitted on : 06-03-2020





	Tularial - 12 Tularial - 12 Tularial - 12 The Travelling Sales man problem (FSP): Give a Set of likes and distance between every pairs at the problem 12 to live the Charlest possible radio that the Problem 12 to every city exactly ance and returns to the Suiting point. The Suiting point. Travelling Salesman problem are highly unlikely to be Salved using polynomial time.
2>	P-Polynomial time solving problems which can be solved in polymonomial time that can lake time. Tike O(2). G(2). No - haid - 2 Some problems can be translated into one ordinar in such a way that
	a fast salabos to one proble would - adomatically give us a faste fast Soldhas to the ather. There are some Problems that every single problem in Op can be tronslated into and a fast Silving such a problem would a dust gives us a fast salabos to every problem in of which is known as top-hard.
	in aparich is known as top-hard.





	Page No. Date: 11 Up a The A Set of all the decision problems such that if the arguers you there is a proud of that which can be verified in polynomial time.
	· Hard problems
	2
3->	The time complexity of Frounding salcemon problem is OCn 22?). The time parcomplexity of Frounding solemon problem can be improve by salaring in by using. Dynamic programming process.
45	A Hamiltonias path with as additional connection between the first and last yeather visited. forming a cycle of called Hamiltonian cycle. A B BC (9 80 DA 10 12 16 9 2 63 59 12 2 59 0 : Tatal : 145











