

## **SNS COLLEGE OF ENGINEERING**

Kurumbapalayam (Po), Coimbatore – 641 107



## AN AUTONOMOUS INSTITUTION

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

ð,	Given y'= 1-48 yes -0, find
	(i) y (0.1) by suler method.
	(ii) y (0.27 by Modified Euler method.
	(m) y(0.4) by Milnel method.
	あんい.
	By Euler method,
	41 = 40+hof(20,40) 0+(0-1)(1-40)-0.1
	By Modified Euler method.
	リン=ナットとも「メルシル、リッナシートト=ce
	= (0.1) of (0.1) on tel. o, 10.1-0) f(0.1) of (0.1,0.1)
	[C1.0-1) [1- (0.1-0.] (1-0)=
	= 0.1855
	My y3 = 0.2629.
	Now knowing yours 173 we will find
	By milner method.
	Ymi D= yo + Al ( dyi- yo+dy3)]
	=0+4(0.1) (8(1-4)-(1-42)+2(1-43)]
	- 0.4 13 - 84, + 0. T
	JH = 1-94 = 1-0.3087 = 0.172 =
	2x1 ( = 32 +W 2 ( ) = +HY +W D)
	= 0.1855 + Oil (1-40+ H(1-40)-11)
	= 0,1822 + 0= (p-1) - h1 - n1 b)
	y(0,4) =0, 9393 //