



# SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

AN AUTONOMOUS INSTITUTION



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

## Tutorial

### Newton's forward and backward difference method:

1. Using Newton's forward interpolation formula, find the polynomial  $f(x)$  satisfying the following data. Hence evaluate at  $f(x)$  at  $x = 5$ .

x:	4	6	8	10
f(x)	1	3	8	10

2. From the following data, find  $\theta$  at  $x=43$  and  $x=84$

x:	40	50	60	70	80	90
y:	184	204	226	250	276	304

3. From the given data, find the number of students whose weight is between 60 to to 70.

Weighth in Ibs	0-40	40-60	60-80	80-100	100-120
No. of students	250	120	100	70	50