

## SNS COLLEGE OF ENGINEERING Kurumbapalayam (Po), Coimbatore – 641 107



#### AN AUTONOMOUS INSTITUTION

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### Topic: 2.3 – SERIES OF POSITIVE TERMS

Series of positive Leam:

1. convergence of a Series remains unchanged by the replacement, inclusion con original of a finite number of seems.

- 9. A series remains convergent, divergent (Or) oscillatory when each term of it is multiplied by a fixed number other than zero.
- 3. A series of positive terms either converges con diverges to too, omisting the negative Eern, the gun of dirst n Eerns Lends to esterna finite limit (00) tous.

4. Every Sinit Series 21 a convergent series.

Sevier of positive Lerm.

1. If all the terms after few negative
Lerms in an infinite series are positive, buch Series is a positive term series.



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Sevier of positive term.

1. If all the terms after few negative
term in an infinite series are positive, buch a series is a positive term series. Eq: -10-6-1+5+12+20+ . - .

2. A series of positive termy either Converger (or) Obverges Lo 00, for the 8 um of first h Leon, on Eting the negative term, Lends Lo esterer a finite limit con rol

3. Necestary condition for convergence. It a tre term series Zun is convergent, then the un un=0 but the converse not ture.

4. Test for divergence. If him unto, the series 5 un must be divergent.



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