

SNS COLLEGE OF ENGINEERING Coimbatore – 641 107



TOPIC:3-Handshaking Theorem

Theorem (Handshaking theorem)

Let G = (V, E) be an undirected graph with e' edges. Then $\sum_{v \in V} deg(v) = 2e$.

The sum of degrees of all the vertices of an undirected

Since every edge is incident with exactly two vertices, every edge contributes & to the sum of the degree of the vertices.

... All the 'e' edges contribute de to the sum of the degrees of vertices.

: > deg (v) = 2e.



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