

SNS COLLEGE OF ENGINEERING Coimbatore - 641 107



TOPIC: 1-Rings

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|------------------|-------------------|--------------|-------------------|
| "hing | | as m' | 1 1 |
| Dy Ring | | 9 70 | 10%n |
| Let R | be a non-emp | ty set on u | high we have |
| two closed by | nary quiations | denoted by | t and . |
| Then (s | ورشد ه مد (۰۰۰) | if for all | Ab, cer. |
| the following | conditions one | satirfud | 1-1 |
| (a) a+b = b | , + a. com | mutative la | wof+ |
| (b) a + (b+c) | = (a+b)+c A) | sociative da | w of + |
| (c) Those exists | z ER such that | Existence of | an identify for + |
| a+z= | z+a = a for every | RER | 1 5 |
| (d) For each a | ER there is an | ráguer | Date of |
| element bea | with | Existence | of Inviorse under |
| a+b= b+a | ≅ Ž. | 1 | |
| er a. (b. c) = | (a.b)-c | Anosati | ve law of. |
| (f) a. (b+c). | a.b+a.c | Distributo | e Laute of over |
| (b+c).a = | b.a + c.a | day - to | |
| | | 1 | |



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Dy: Ideal

A non-empty subset I of a ring R is called a subring of R if (s,+.)-that is, s under the addition and multiplication? R, restricted to s-is a ring.