

# RNSIT - Tech - 3<sup>rd</sup> Year - Semester - 6

2 - Java - Brush Up }  $6 \times 6 = 36$  hrs  
DSA - 4 Days  
C, C++, Python, UNIX { AICTE  
NAAC  
NBA

1942  $\rightarrow$  Dennis Ritchie  $\rightarrow A + ext^n = B$

1972  $\rightarrow$  (C)  
1<sup>st</sup> std ver ANSI  $\rightarrow$  1989 ANSI-C

* AND $\rightarrow \&$	7 $\rightarrow$ 0111	} Bit Masking
OR $\rightarrow  $	9 $\rightarrow$ 1001	
XOR $\rightarrow \wedge$	$7 \& 9$ 0001 = 1	
RS $\rightarrow \gg$	$\downarrow$ Bit	
LS $\rightarrow \ll$	BT	
NOT $\rightarrow \sim$	5 0101	

S-0 D-1  
6 - 0110  
2 - 0010  
 $6 \wedge 2 = \frac{0100}{0100} = 4$

8 1000  
518 1101 = 11

int hamming Weight (int n) { 11  $\rightarrow$  1011

$\frac{1011}{0001} = 0001$

$n \& 1$   
 $n \gg 1$  count = 0  
1, 2, 3

$\frac{101}{001} = 001$  10  $\rightarrow$  1  
01  $\rightarrow$  1

$\frac{0101}{0000} = 0101$  5  $\rightarrow$  2  
0  $\rightarrow$  0  
1111 15  $\rightarrow$  4

T.C.O stop