	SAP ID-60004200132 Nome-Ayush Jain
3/07/21	Physics Tutorial-1 DATE:
	Constitution of the second constitution of the s
13)	$n_1 = 1.6, n_2 = 1.5$
	000
	$Oc = sin^{-1} \left(\frac{n^2}{n!} \right)$
	= sin-1 (1.5)
	= 69' 38'
0	$NA = \sqrt{n^2 - n^2}$
	= \(\int_{0.31} = 0.556\)
	cinoa = NA
	OA = SIn-1 (VO.31)
	= 33.50'
	Angle of cone = 2xacceptance angle
•	= 67.40'
(5)	1 = 850 nm
	V= 2.405 for single mode step index
	$NA = \sqrt{v_3 - v_2}$
	= J(1.48)2 - (1.47)2 = 0.1717 en 0.172.
	V=2Tra)N.A (a is core radius)
	-: a = Vd = 2.405×850×10-9 = 1891.5 ×10-9 = 1.89 Lm
	2πNA 2π ×0:172

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OA : sin-1 (NA)
= sixt (0.172)
- 0' - 1
- 154
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