	Assignment - 2
	Page No.
	ME-639 3 ratio to Robotics
	Name: Dev Patel
	Roll No: - 18110113
-	20 5 0-11
1	Non Yi
	1 Pith
	Yaw J
	-1 : +1 : +1 alexantation is
	Vow about of through an angle & w, then hitch about
	Thus using the yow-pitch-Roll representation i.e. yow about x through an angle & w, then pitch about a yo by an angle o and finally roll about z by angle of gives the rotation matrix as
	gives the rotation matrix as
	Ro = Rz, o Ry, o Rxy
	= C = S = O O O Cy - S = -
	Lo o SIL-So o Collo Sy Cy
	- Co Co - So Cy + Co So Sy - Co Sy + So So Cy -
	Sp Co Cp Cy + Sp SoSy -Cp Sy + Sd SoCy -
	1-50 Co 54 Co Cop
	New we have Column vectors of the rotation matrix -
	C, = CoCo C2 = - SOCy + CoSOSy
	C, 7 Co Cy + Sp So Sy Co Co Sy
	1-50
Sec.	Scanned by CamScanner

































