6901A120101	Submitted Toz-	Submitted By:	
690,000	Dr. Pawan Dubey sir	ASHISH BIRLA (0901AIJO1013)	
NOV.		Page No. (Date:	
	Assignment - 1	PREMIUM .	
9-1			
501 n=	(i) Rotate an ande al co	1.0	
	(i) Rotate an angle of 90° around 20.		
	T ₁ = Rot (-2., 90°) =		
1	100 (20,00) =	cosgo - singo o o	
		8120 . (0230 . 0 0)	
		1 0	
		0 1	
	(ii) Rotate an angle 150		
	(ii) Rotate an angle 45° around 9°.		
	T2 = Rot (y, 45°) = [cos45° 0 sih45° 0]		
	30, 45)=	0 1 · 0 0	
	_	chur °	
		0 0 0 1	
		y y	
	(iii) Rotate an angle of 30 around 20		
	30.0	Tound Zo	
	T3 = Rot (2, 30) = [
	3 (28, 50)-	. \	
		· 0	
		.0.0.01	
	OTe = T, T, T,	. 0 6 1	
	1/2 0 1/2 0 0 -1	h 2 5 11	
	0 + 00 + 0.	0 0 1/2 1/2 0 0	
	1, 1,	1 1/2 172 0 0	
	0 0 0 1 0 0 0	0 0 0 1 0	
	→ -\frac{1}{2\sqrt{2}}		
	VY2 -1/	0 0	
	1/5 +3/2	1/52 0	
1 11	1 /212	7	

Page No. (3) MTRAJ		
Date; PREMIUM		
2 Potate an angle 90 around 2.		
$T_1 = Rot(\hat{x}, go) = \begin{cases} 1 & 0 & 0 \\ 0 & 80590 - 51690 \end{cases}$		
0 51730 (1590 0		
0.001		
(ii) Hove 5 units along X.		
T ₁ = 0 1 0 0		
0 0 1 0		
0 0 1 0		
(ii) Rotate an angle of 45° goound j.		
0 1 0 0		
-87245° 0 (0545° 0		
9, T2, T3 = 1 0 0 0 1 0 0 5 1 1/2 0 1/2 0		
0 -1 0 .0 1 0 0 1 0 0		
000100001001100011000000000000000000000		
[0001][0001]		
C		
=> 1/2 · 0 1/2 5		
1/2 0 -1/2 0		
0 1 0		
[2 0 0 1		
2		

