	<i>16ME401 Finite Element And</i> UNIT V- ISOPARAMETRIC FORMU	
Numerical Inte	gration :	* - 1 g = 9
Gauss Quadrate	the method	
J-f (m) dm	$u = \stackrel{n}{\leq} W_{i} \int (\alpha_{i}).$	
W; = Weight	-{n	
ng - Prodet	ermined Sampling points.	All and the second s
To find no of	sampling points, 2n-1 = Ora	her of polynomial.
No. of sampling	Location	weight fr.
points, n	21	Wi
1	x= 0	$w_1 = 2$
	da o serve e	Print of the second second
2.	$n_1 = \sqrt{\frac{1}{3}} = 0.57735$	W1 = 1
See Se a	×2=- J= -0.59735	W2=1
	line in the second	
3	$x_1 = \sqrt{\frac{3}{5}} = 0.774567$	W1 = 5 = 0.5555
	R & = 0	$W_{Q_{2}} = \frac{8}{9} = 0.8888$
1	73=- 13 = -0.774567	A second s
		$W_3 = \frac{5}{9} = 0.5555$
4	x1= 0.8611363	W1 = 0.347855
	2= 0.339981	W2 = 0.652145
e al contra	73 = -0.339981	W3 = 0.052145

Prepared by Dr.M. SUBRAMANIAN/Professor/Mechanical/16ME401/ Finite Element Analysis 1/1