Truss member	Applied Load (in N)					
	0	20	40	60	80	100
	Truss Member Strain (µε)					
1	0	-22	-45	-76	-97	-97
2	0	18	32	53	77	97
3	0	-1	-3	-4	0	1
4	0	-19	-46	-67	-91	-110
5	0	0	0	-3	-3	-8
6	0	23	47	64	85	107
7	0	35	67	106	141	176
8	0	-45	-96	-114	-190	-247
9	0	0	-4	-10	-9	-11
10	0	47	83	28	69	210
11	0	-44	-90	-133	-177	-220

Applied Load (in N)	Deflection (in mm)		Error (%)
	Experimental	Theoretical	
0	0	0.000	_
20	-0.09	-0.052	71.756
40	-0.17	-0.105	62.214
60	-0.27	-0.157	71.756
80	-0.37	-0.210	76.527
100	-0.47	-0.262	79.389

Deflection Vs Load
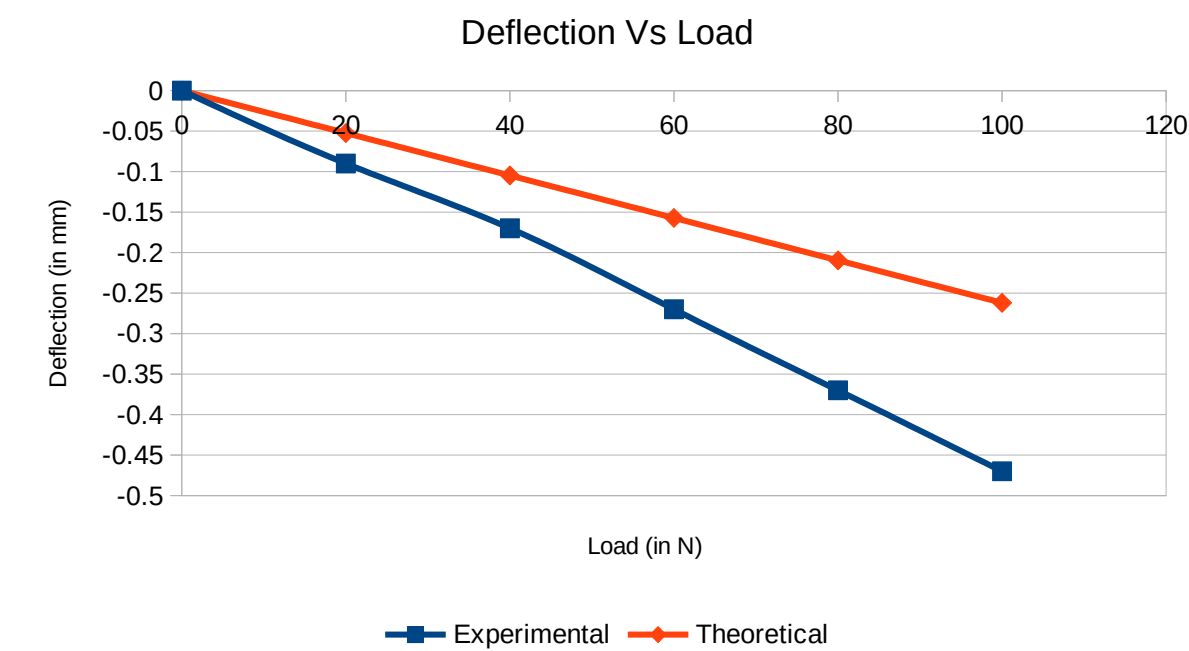
Truss member		Applied Load (in N)					
		0	20	40	60	80	100
		Truss Member Force (in N)					
1	Experimental	0	-13.75	-28.13	-47.50	-60.63	-60.63
	Theoretical	0	-13.33	-26.67	-40.00	-53.33	-66.67
	Error	0	3.13	5.47	18.75	13.67	-9.06
2	Experimental	0	11.25	20.00	33.13	48.13	60.63
	Theoretical	0	11.55	23.09	34.64	46.19	57.74
	Error	0	-2.57	-13.40	-4.38	4.19	5.01
3	Experimental	0	-0.63	-1.88	-2.50	0.00	0.63
	Theoretical	0	0.00	0.00	0.00	0.00	0.00
	Error						
4	Experimental	0	-11.88	-28.75	-41.88	-56.88	-68.75
	Theoretical	0	-13.33	-26.67	-40.00	-53.33	-66.67
	Error	0	-10.92	7.80	4.69	6.65	3.12
5	Experimental	0	0.00	0.00	-1.88	-1.88	-5.00
	Theoretical	0	0.00	0.00	0.00	0.00	0.00
	Error						
6	Experimental	0	14.38	29.38	40.00	53.13	66.88
	Theoretical	0	11.54	23.09	34.64	46.18	57.73
	Error	0	24.57	27.22	15.47	15.04	15.84
7	Experimental	0	21.88	41.88	66.25	88.13	110.00
	Theoretical	0	23.08	46.18	69.28	92.36	115.46
	Error	0	-5.22	-9.32	-4.37	-4.59	-4.73
8	Experimental	0	-28.13	-60.00	-71.25	-118.75	-154.38
	Theoretical	0	-26.66	-53.34	-80.00	-106.66	-133.34
	Error	0	5.50	12.49	-10.94	11.34	15.78
9	Experimental	0	0.00	-2.50	-6.25	-5.63	-6.88
	Theoretical	0	0.00	0.00	0.00	0.00	0.00
	Error						
10	Experimental	0	29.38	51.88	17.50	43.13	131.25
	Theoretical	0	23.08	46.18	69.28	92.36	115.46
	Error	0	27.27	12.33	-74.74	-53.31	13.68
11	Experimental	0	-27.50	-56.25	-83.13	-110.63	-137.50
	Theoretical	0	-26.66	-53.34	-80.00	-106.66	-133.34
	Error	0	3.15	5.46	3.91	3.72	3.12