

Lab 08, EF321L Mechanics of Materials

Objective:

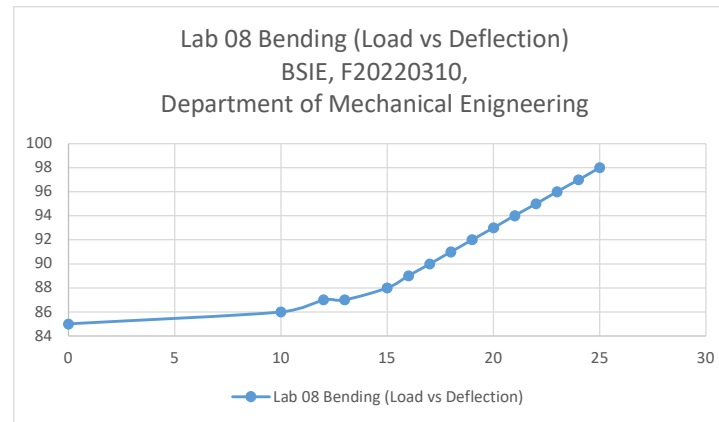
To analyze the response of metal under bending and determine bending strength of the specimen.

Workpiece: Wood

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Date: 8th January, 2025

Sr#	Load (kN)	Deflection (mm)
1	0	85
2	10	86
3	12	87
4	13	87
5	15	88
6	16	89
7	17	90
8	18	91
9	19	92
10	20	93
11	21	94
12	22	95
13	23	96
14	24	97
15	25	98



Lab 05

Objective: To determine the tensile strength of a Mild Steel bar with the help of universal testing machine also draw stress strain curve.

Length: 52.6 cm 526 mm After experiment, length change = 58.8cm
Diameter: 11.55 cm 115.5 mm

Sr#	Load (kN)	Deflection (mm)
1	0	224
	10	225
	15	226
	20	227
	25	228
	30	229
	35	230
	40	231
	45	232
	50	233
	55	234
	60	234
	65	234
	70	234
	71	234
	72	238
	73	239
	74	240
	75	240
	76	241
	77	242
	78	243
	79	244
	80	245
	81	246
	82	247
	83	248
	84	249
	85	250
	86	253
	87	254
	88	256
	89	259
	90	263
	91	266
	92	275
	92	280
	93	300

