

ME 441 Nuclear Engg. Laboratory 2024-25

The nuclear engineering part of the Applied Thermodynamics Lab has two turns. In each turn the students will be doing two experiments. These experiments are labelled from 1-4. In a given turn, the students will either be performing Experiments 1 and 2 or be performing Experiments 3 and 4. The title of the experiments are as follows:

Expt No.	Experiment Name
Nuc 1-1	Thickness measurement of Plastic foil using Beta backscattering technique
Nuc 1-2	Measurement of ash content in coal using Beta backscattering technique
Nuc 2-3	Gamma ray spectrometer
Nuc 2-4	Measurement of Aluminium foil thickness using Beta transmission technique

From the original list of the Student Groups given by the coordinator, each group has been sub-divided into two sub-groups X(Yellow colour) and Y(Green colour). These are suitably highlighted in the following Table.

X and Y will perform the same set of experiments in a given turn (3hrs.) alternatively. The sub-groups (X and Y) will swap experiments after one and half hours.

Batches

Batches

A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	
180100122	20D100023	210020129	210040139	210100012	210100024	210100037	210100049	210100061	210100074	Monday
18D100010	210010002	210020130	210040142	210100013	210100025	210100038	210100050	210100062	210100075	
200040141	210020004	210020156	210040160	210100014	210100026	210100039	210100051	210100064	210100076	
200100040	210020019	210021001	210100002	210100015	210100027	210100040	210100052	210100065	210100077	
200100065	210020049	210040011	210100003	210100016	210100028	210100041	210100053	210100066	210100078	
200100074	210020055	210040012	210100004	210100017	210100029	210100042	210100054	210100067	210100080	
200100092	210020061	210040024	210100005	210100018	210100030	210100043	210100055	210100068	210100081	
200100124	210020093	210040048	210100007	210100019	210100031	210100044	210100056	210100069	210100083	
200100144	210020100	210040050	210100008	210100020	210100032	210100045	210100057	210100070	210100084	
200100147	210020117	210040056	210100009	210100022	210100033	210100046	210100058	210100071	210100085	
20D100015	210020120	210040064	210100010	210100023	210100034	210100047	210100059	210100072	210100086	
					210100035	210100048	210100060	210100073	210100087	
							210100079	210100171	210040077	

[illegible]

The schedule of experiments to be performed by each of the sub-group is summarised in the following table

		Expt. No. 1 and 2	Expt. No. 3 and 4
1	5 th Aug	A5-X, A5-Y	A6-X, A6-Y
2	12 th Aug	A6-X, A6-Y	A7-X, A7-Y
3	19 st Aug	A7-X, A7-Y	A8-X, A8-Y
4	26 th Aug	A8-X, A8-Y	A9-X, A9-Y
5	2 th Sep	A9-X, A9-Y	A10-X, A10-Y
6	9 th Sep	A10-X, A10-Y	A1-X, A1-Y
7	23 th Sep	A1-X, A1-Y	A2-X, A2-Y
8	30 th Sep	A2-X, A2-Y	A3-X, A3-Y
9	7 th Oct	A3-X, A3-Y	A4-X, A4-Y
10	14 th Oct	A4-X, A4-Y	A5-X, A5-Y

		Expt. No. 1 and 2	Expt. No. 3 and 4
1	8 th Aug	B5-X, B5-Y	B6-X, B6-Y
2	22 th Aug	B6-X, B6-Y	B7-X, B7-Y
3	29 th Aug	B7-X, B7-Y	B8-X, B8-Y
4	5th Sep 19 th Oct	B8-X, B8-Y	B9-X, B9-Y
5	12 th Sep	B9-X, B9-Y	B10-X, B10-Y
6	26 th Sep	B10-X, B10-Y	B1-X, B1-Y
7	3 th Oct	B1-X, B1-Y	B2-X, B2-Y
8	10 th Oct	B2-X, B2-Y	B3-X, B3-Y
9	17 th Oct	B3-X, B3-Y	B4-X, B4-Y
10	24 th Oct	B4-X, B4-Y	B5-X, B5-Y

05/09/24 Teacher's day

Tentatively shifted to 19 Oct