

Centre for Energy Studies

Energy Laboratories ESP 713 (3credits 0-0-6)

List of M. Tech. Energy Studies Laboratory Experiments

Cycle I-2:30 p.m. to 5.00 p.m. on Mondays and Thursdays

Introduction will be in the CES Committee room No. V-343 on 15.01.2018

Prof. M.G. Dastidar	2:00 PM to 2:15 PM
Prof. D.K. Sharma	2:15 PM to 2:30 PM
Prof. Ramesh Narayanan	2:45 PM to 3:00 PM
Prof. Vamsi K. Komarala	3:00 PM to 3:30 PM
Prof. Sandeep Pathak	3:30 PM to 4:00 PM
Prof. K.A. Subramanian	4:00 PM to 4:30 PM
Prof. Dibakar Rakshit	4:30 PM to 5:00 PM

S. No.	Name of Experiments	Faculty & Room No.	Technical Staff Lab. No.
1.	Characterization of solid fuel (Proximate Analysis)	Prof. (Mrs.) M.G. Dastidar (V-238)	Mr. L.D. Kala M. Tech. Lab (V-412 A)
2.	Determination of calorific value of solid fuel		
3.	Study of DC plasma discharge characteristics	Prof. Ramesh Narayanan (V-350A)	Ms. Arti Rawat and Ms. Mahreen Khan (6531) V-412A
4.	Fractional distillation of Petroleum	Prof. D. K. Sharma (WS-203)	Coal Research Lab (6467) WS-209 Ms Hina, Ms Nisha Dagotia
5.	I-V Characteristics of a Solar Cell	Prof. Vamsi Krishna (V-332)	Mr. Krishna Singh Mr. Mrutyunjay Nayak (V 335)
6.	Solar Thermal Training system- Evaluation of U_L , F_r , and η for the solar flat plate collector	Prof. Dibakar Rakshit (V-348)	Mr. Rajat Saxena Mr. L.D Kala (V-412 A) (6488, 6413)
7.	To study the performance and emission characteristics of a dual bio-diesel fueled engine.	Prof. K.A. Subramanian (V-414)	Mr. P.K.Batra V-136 (6463)
8.	To study the performance and emission characteristics of a spark ignition engine for methanol-gasoline blend.		
9.	Synthesis of MAPbX ₃ perovskite nano-crystals	Prof. Sandeep Pathak, (V-134)	Mr Bhanu Pratap, Ms Priyanka (6084)

- (i) The laboratory schedule for doing experiments will be circulated during the presentation.
- (ii) Viva-voce/ Quizzes of all the experiments will be intimated by respective faculties.

