

Department of Physics/Undergraduate program
Indian Institute of Science, Bengaluru-12
PH-212: Experiments in Condensed Matter Physics (JAN-2019)
Students: 2nd semester Integrated PhD-Physics and 6th Semester UG(Physics)

Batch #	Student Name (tentative)	W 1, W2 9, 15, 16 Jan 2019	W 3	W 4	W 5	W 6	W 7 18/2 to 20/2	W 8	W 9	W 10	W 11	W 12	W 13	W 7 8/4 to 10/4
B1	ABHISHEK DUBEY BRIJESH KANODIA PRANJUL GARG	1	2	3	4	5	Mid -sem viva	6	7	8	9	10	Re pet iti on -2	Fin al- sem viva
B2	SAYANTA GOSWAMI SRISHTY AGGARWAL CAMELLIA BOSE	2	3	4	5	1		7	8	9	10	6		
B3	NAVKIRANJOT KAUR GILL ANIKET MAJUMDAR PINGAL PRATYUSH NATH	3	4	5	1	2		8	9	10	6	7		
B4	SOHAM MANDAL UJJAL ROY NAMANA V	4	5	1	2	3		9	10	6	7	8		
B5	NAYANA V ANKIT KHANDELWAL POONAM SHARMA	5	1	2	3	4		10	6	7	8	9		
B6	SAISAB BHOWMIK SOUVIK CHAKRABORTY MANOJ KUMAR NAG	1	2	3	9	10		6	7	8	4	5		
B7	PALASH KUSUM DAS PRASANJIT AICH xxx	2	3	1	10	9		7	8	6	5	4		

Complete list of experiments

1. Franck Hertz experiment (2)
2. Semiconductor thermo generator (Seeback + Peltier effect) (2)
3. Determination of attenuation of alpha particles in air (alpha scattering) (2)
4. Conductivity measurements as a function of temperature (15–300 K)
5. Preparation of thin film by vapor deposition (vacuum techniques) and its characterization
6. Stirling engine (efficiency verification) (2)
7. Scanning Tunneling Microscope (STM) (2)
8. Laue pattern (with X-ray unit) (2)
9. Lock in Amplifier: construction of adder circuit and testing (2)
10. Atomic Force Microscopy (AFM)