

5th Basics Plasma Course

Arab Academy for Science, Technology & Maritime Transport, Port Said
03 – 08 August 2024



Prof. Dr. Waleed Moslem
Port Said University
The British University in Egypt

Prof. Dr. Mohamed Fahmy
Arab Academy for Science,
Technology & Maritime Transport

Day 1: Saturday, 03 August 2024

Time	Title	Speaker
10:00 – 11:00	Opening	Organizers
11:00 – 12:00	Plasma theory	Ibrahim Elkamash
12:30 – 12:30	Break	
12:30 – 01:30	Introduction to electromagnetic	Mohsen Zahran
01:30 – 02:30	Particle model	Ibrahim Elkamash
02:30 – 04:00	Group work	

Day 2: Sunday, 04 August 2024

10:00 – 12:00	Measurement of plasma current	Azza Talab
12:00 – 12:30	Break	
01:30 – 02:30	Measurement of plasma voltage	Azza Talab
02:30 – 04:00	Group work	Azza Talab

Day 3: Monday, 05 August 2024

10:00 – 11:00	Kinetic model	Ibrahim Elkamash
11:00 – 12:00	Dusty plasma	Waleed Moslem
12:00 – 12:30	Break	
12:30 – 02:30	Fluid model	Ibrahim Elkamash
02:30 – 04:00	Group work	

Day 4: Tuesday, 06 August 2023

Time	Title	Speaker
10:00 – 11:00	Classification of plasma forces and species	Waleed Moslem

11:00 – 12:00	Equilibrium & Stability analysis	Ibrahem Elkamash
12:00 – 12:30	Break	
12:30 – 01:30	Linear effects: Electron plasma waves	Waleed Moslem
01:30 – 02:30	Waves: Terminology & Concepts	Ibrahem Elkamash
02:30 – 04:00	Group work	Plasma Team

Day 5: Wednesday, 07 August 2024

09:00 – 11:00	Dispersion & Dispersion relation	Ibrahem Elkamash
11:00 – 12:00	Group work	
12:00 – 12:30	Break	
12:30 – 04:00	Visiting the meteorological station at the Faculty of Science, Port Said University	

Day 6: Thursday, 08 August 2024

09:00 – 10:30	Linear effects: Ion plasma waves	Ibrahem Elkamash
10:30 – 12:00	From nature to plasma physics	Waleed Moslem
12:00 – 12:30	Break	
12:30 – 02:00	Closing	Plasma Team