

3rd PBC

3rd Plasma Basics Course

The British University in Egypt
4, 26, 27, 28 July 2022



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

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TIMETABLE

Day 1 Monday, 4 July 2022		
Time	Title	Speaker
12:00 – 01:00	A Journey to Mysterious Plasma World	Waleed Moslem
01:00 – 01:30	Break	
01:30 – 03:00	Basic Concepts	Waleed Moslem
03:00 – 04:00	Assignments & Problems	
Day 2 Tuesday, 26 July 2022		
12:00 – 01:30	Plasma Models	Ibraheem Elkamash
01:30 – 02:00	Break	
02:00 – 03:30	Single-Particle Motion	Waleed Moslem
03:30 – 04:00	Assignments & Problems	
Day 3 Wednesday, 27 July 2022		
9:00 – 10:30	Introduction to Waves	Ibraheem Elkamash
10:30 – 12:00	Electron Plasma Waves	Mahmoud Afify
12:00 – 12:30	Break	
12:30 – 02:00	Ion Waves	Mahmoud Afify
02:00 – 03:00	Equilibrium and Stability & Concept of β	Waleed Moslem
03:00 – 04:00	Assignments & Problems	
Day 4 Thursday, 28 July 2022		
09:00 – 10:00	Mid-course exam	
10:00 – 11:30	Two-Stream Instability	Mahmoud Afify
11:30 – 01:00	Introduction to Nonlinear Effects	Waleed Moslem
01:00 – 01:30	Break	
01:30 – 03:00	Derivation of KdV equation	Ibraheem Elkamash
03:00 – 04:00	Assignments & Problems	