



ArPS Summer School on Advanced Physics August 26- 31, 2023



Saturday, August 26

9:00 - 9:30	Opening Session 9:00 - 9:10 Prof. Shaaban Khalil, President of Arab Physical Society 9:10 - 9: 20 Prof. Mohammed El-Bayoumi, Vice President, Mansoura University 9:20 – 9:30 Prof. Usama El-Ayaan, Dean of Faculty of Science, Mansoura University
9:30 - 11 :00	From Quantum Mechanics to Quantum Filed Theory (I) Prof. Shaaban Khalil
11.00 – 11.30	Coffee Break
11:30 – 13:00	General Theory of Relativity(I) Prof. Shawqi Al-Dallal
13:00- 14:30	Lunch Break
14:30 - 16:00	Analytical Mechanics (I) Prof. Mohsen Zhran
16:00 – 16:15	Coffee Break
16:15 - 17:45	Introduction to Particle Physics (I) Prof. Maein Binjonaid
18:00 – 19:00	Seminar: Resummation theory with applications in quantum field theory Prof. Abouzeid Shalaby
19:00 – 20:30	Dinner

Sunday, August 27

9:30 - 11 :00	General Theory of Relativity (II) Prof. Shawqi Al-Dallal
11.00 – 11.30	Coffee Break
11:30 – 13:00	From Quantum Mechanics to Quantum Filed Theory (II) Prof. Shaaban Khalil
13:00- 14:30	Lunch Break
14:30 - 16:00	Introduction to Particle Physics (II) Prof. Maein Binjonaid
16:00 – 16:15	Coffee Break
16:15 - 17:45	Analytical Mechanics (II) Prof. Mohsen Zhran
18:00 – 19:00	Seminar: Gravitational Waves and Exploring Early Universe Prof. Shaaban Khalil
19:00 – 20:30	Dinner

Monday, August 28

9:30 - 11 :00	General Theory of Relativity (III) Prof. Shawqi Al-Dallal
11.00 – 11.30	Coffee Break
11:30 – 13:00	From Quantum Mechanics to Quantum Filed Theory (III) Prof. Shaaban Khalil
13:00- 14:30	Lunch Break
14:30 - 16:00	Introduction to Particle Physics (III) Prof. Maein Binjonaid
16:00 – 16:15	Coffee Break
16:15 - 17:45	Freak Waves & Envelope Solitons in Plasma Physics Dr. Ibrahim Elkamash
18:00 – 19:00	Seminar: Quantum Computing Dr. Mohammed Zidan
19:00 – 20:30	Dinner

Tuesday, August 29

9:30 - 11 :00	General Theory of Relativity (IV) Prof. Shawqi Al-Dallal
11.00 – 11.30	Coffee Break
11:30 – 13:00	From Quantum Mechanics to Quantum Filed Theory (IV) Prof. Shaaban Khalil
13:00- 14:30	Lunch Break
14:30 - 16:00	From Quantum Mechanics to Quantum Filed Theory (V) Prof. Shaaban Khalil
16:00 – 16:15	Coffee Break
16:15 - 17:45	Analytical Mechanics (III) Prof. Mohsen Zhran
18:00 – 19:00	Seminar: Applications of General Relativity GTR to Black holes Prof. Ammar Sakaji
19:00 – 20:30	Dinner

Wednesday, August 30

9:30 - 11 :00	General Theory of Relativity (V) Prof. Shawqi Al-Dallal
11.00 – 11.30	Coffee Break
11:30 – 13:00	Topics on Statistical Mechanics (I) Prof. Ahmed Maarouf
13:00- 14:30	Lunch Break
14:30 - 16:00	Topics on Statistical Mechanics (II) Prof. Ahmed Maarouf
16:00 – 16:15	Coffee Break
16:15 - 17:45	Analytical Mechanics (VI) Prof. Mohsen Zhran
18:00 – 19:00	Seminar: Computational Nano-Physics: Basics and Applications Prof. Mohamed Hameed
19:00 – 20:30	Dinner

Thursday, August 31

9:30 - 11 :00	Topics on Statistical Mechanics (III) Prof. Ahmed Maarouf
11.00 – 11.30	Coffee Break
11:30 – 13:00	Introduction to Condensed Matter Physics(I) Prof. Jumaa Al-Damrawi
13:00- 14:30	Lunch Break
14:30 - 16:00	Introduction to Condensed Matter Physics(II) Prof. Jumaa Al-Damrawi
16:00 – 16:15	Coffee Break
16:15 - 17:45	Physics on the Edge: Nature of space, time and matter Prof. Ahmed Elgarayhi,
18:00 – 19:00	Closing Session
19:00 – 20:30	Dinner