

Winter school on Physics of Complex Fluids (PCF)

School of Physics, IPM

February 19-20, 2025 (Esfand 1-2, 1403)

Program

Time	Speaker	Title
February 19, 2025 (Esfand 1, 1403)		
Topic (I): Fluid dynamics and measurement methods		
9:00-9:30	S. Amir Bahrani	An introduction to physics of fluids
9:30-10:30	S. Amir Bahrani	Optical measurement techniques: LDV, PIV, PLIF
10:30-11:00	Break	
11:00-12:00	S. Amir Bahrani	Workshop
12:00-14:00	Lunch	
Topic (II): Flow Modeling in physics of fluids		
14:00-14:30	Hamid Reza Anbarlooei	An introduction to numerical methods
14:00-15:30	Hamid Reza Anbarlooei	Lagrangian-Eulerian methods
15:30-16:00	Break	
16:00-17:00	Ali Rajabpour	Nanoscale fluids and molecular dynamics
February 20, 2025 (Esfand 2, 1403)		
Topic (III): Applied fluids		
9:00-10:00	Azadeh Jafari	Rheology and computational hemorheology
10:00-11:00	Azadeh Jafari	Microswimmers in medical applications
11:00-11:30	Break	
11:30-12:30	S. Amir Bahrani	Suspensions and Energy