



# Course on Astronomy & Aerospace Engineering

## Schedule

### Friday 27th of March

**9.30-12.00: Official Opening**

*Tsioumis amphitheatre, Engineering School*

**12.00-12.30: Coffee break**

**12.30-13.10: “Cosmological Systems in the Ancient Greek Philosophical World”**

Demetra Sfendoni-Mentzou, President of the Interdisciplinary Centre  
for Aristotle Studies

*Tsioumis amphitheatre, Engineering School*

**13.10-14.30: “Aristotle and Contemporary Physics”**

Demetra Sfendoni-Mentzou, President of the Interdisciplinary Centre  
for Aristotle Studies

*Tsioumis amphitheatre, Engineering School*

**15.30-17.30: “Ancient Greek Astronomy and the Antikythera Mechanism”**

John-Hugh Seiradakis, Professor in the Department of Physics,  
Director of the Laboratory of Astronomy, Astrophysics and Mechanics

*Hall 301, Architecture wing, Engineering School*

### Monday 30th of March

**12.15-14.15: “Solar System: Birth and Evolution”**

Kleomenis Tsiganis, Professor in the Department of Physics

*Xanthopoulos amphitheatre, Observatory*

**20.00-21.00: Visit at the Observatory of the Aristotle University of Thessaloniki**

John-Hugh Seiradakis, Professor in the Department of Physics,

Director of the Laboratory of Astronomy, Astrophysics and Mechanics



## **Tuesday 31st of March**

**11.15-13.35: Visit to the NOESIS Science Centre & Technology Museum**

**15.00-17.00: “The Current Cosmological Paradigm”**

Manolis Plionis, Professor in the Department of Physics  
*General Meetings Hall, Department of Chemical Engineering*

**17.15-19.15: “Flight Mechanics and Aerodynamics”**

Periklis Panagiotou, PhD Candidate in the Department of Mechanical Engineering  
*General Meetings Hall, Department of Chemical Engineering*

**19.15-20.15: Visit to the Airtunnel (LFMT: Laboratory of Fluid Mechanics and Turbomachinery)**

Periklis Panagiotou, PhD Candidate in the Department of Mechanical Engineering

## **Wednesday 1st of April**

**12.30-13.30: “Space Electronics: Challenges and Solutions”**

Alkiviadis Hatzopoulos, Professor in the Department of Electrical and Computer Engineering  
*General Meetings Hall, Department of Chemical Engineering*

**14.30-15.30: “Artificial Satellites”**

Vasileios Kapinas, Postdoctoral research fellow in the Department of Electrical and Computer Engineering  
*General Meetings Hall, Department of Chemical Engineering*

**15.30-16.30: “Communication Satellites”**

Vasileios Kapinas, Postdoctoral research fellow in the Department of Electrical and Computer Engineering  
*General Meetings Hall, Department of Chemical Engineering*

**16.30-17.30: “European Space Agency (ESA) & Telecommunications”**

Vasileios Kapinas, Postdoctoral research fellow in the Department of Electrical and Computer Engineering  
*General Meetings Hall, Department of Chemical Engineering*

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**17.30-18.00: Coffee Break**

**18.00-19.00: “Optimal Control Applications in Aerospace Engineering”**

Panagiotis Seferlis, Professor in the Department of Mechanical Engineering

*General Meetings Hall, Department of Chemical Engineering*

### **Thursday 2nd of April**

**10.00-12.00: “Rocket Propulsion”**

Anestis Kalfas, Professor in the Department of Mechanical Engineering

*Tsioumis Amphitheatre, Engineering School*

**12.30-14.00: “Space Electric Propulsion”**

Konstantinos Emmanouil, Functional Systems and Transient Performance Engineer, Rolls Royce, England

*Tsioumis Amphitheater, Engineering School*

### **Friday 3rd of April**

**10.00-11.30: “Materials & Hardware”**

Stefanos Mylonakis, Aircraft Engineer at the “Macedonia” Airport of Thessaloniki

*Tsioumis Amphitheatre, Engineering School*

**11.30-12.00: Coffee Break**

**12.00-14.00: Case study “Selecting the optimal conditions for the re-entry of a spacecraft”**

*Tsioumis Amphitheatre, Engineering School*

**15.00-18.00: Case study (continue) & Examination**

*General Meetings Hall, Department of Chemical Engineering*

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