



ELBYSIER “Electronics for the Beyond Silicon Era”
Erasmus+
KA2 - Cooperation for Innovation and the Exchange of Good Practices
Strategic Partnerships for higher education

Intensive Course in “Graphene Technologies and nano-electronics”

	Monday (9 th of October 2017)	Tuesday (10 th of October 2017)	Wednesday (11 th of October 2017)	Thursday (12 th of October 2017)	Friday (13 th of October 2017)
1015 - 1100	Welcome / Presentation of the FCT-UNL/ i3N Prof. Fortunato (UNL)	A fast review of the previous implemented ICs & The Journal Club Action Prof. I. Kaliakatsos (TEIoC)	Photovoltaic Structures Based on Hybrid Organic/ Inorganic Nanostructured Thin Films Prof. S. Antohe (UB)	Complex Arrays of One-Dimensional Nanostructures Prepared by Template-Assisted Electrochemistry: From Nanofabrication towards Next Generation Devices Dr V. Antohe (UB)	Exam Paper: Multiple Choice Questions related to the previous week lectures
1100 - 1115					
1115 - 1200	Nanoelectronics beyond silicon era Dr Pedro Barquinha (UNL)	Graphene & 2D Materials Based Organic Photovoltaics Dr K. Petridis (TEIoC)	Graphene imperfection measured by Raman scattering and microwave spectroscopy Dr Mrs. A. Drabińska (UW)	The role of graphene in implantable bioelectronics Dr M. Donahue (MINES)	Journal Club Presentations by the students
1200 - 1215					
1215 - 1300			Boron nitride - material for Van der Waals		Journal Club Presentations

	The use of graphene and oxide coatings as nano-sensing elements Prof. G. Kiriakidis and Dr Vasilios Binas (UoC)	Layered transition metal dichalcogenides - prospective electronic materials Dr A.Babinski (UW)	heterostructures Dr R. Stepniewski (UW)	Stretchable electronics/sensors based on graphene and carbon nanotubes Dr Marc Ramuz (MINES)	by the students	
1300 - 1430	Lunch & Coffee Break					
1430 - 1515	Presentation of UNL / Portugal (UNL Students Group)	Presentation of TEIoC / Presentation of Crete (TEIoC Students Group)	Overview of 2D layers for building envelope applications Prof. G. Kiriakidis and Dr Vasilios Binas (UoC)	Artificial photosynthesis and synthetic approaches with hybrid porphyrin-carbon nanotubes Prof. T. Koutsolelos (UoC)	Research & Educational Activities within ELBYSIER The NanoGroup of TEI of Crete Dr K. Petridis (TEIoCrete)	Research & Educational Activities within ELBYSIER Prof. S. Antohe (UB)
1515 – 1530						
1530 - 1615	Presentation of University of Bucharest / Romania (UB Students Group)	Presentation of University of Warsaw / Poland (UW Students Group)	Noble Metal Nanoparticles for molecular detection Dr Hugo Águas (UNL)	Graphene & 2D Materials Based Perovskite Solar Cells Dr K. Petridis (TEIoC)	Research & Educational Activities within ELBYSIER The UW group Activities	Research & Educational Activities within ELBYSIER The LBIC group Activities Prof. T. Koutsolelos (UoC)
1615 - 1630						
1630 - 1700	Presentation of University of Crete / Greece (UB Students Group)	Presentation of University of MINES / France (UB Students Group)	Cellulose based electronics and iontronics Prof. L. Pereira (UNL)	Light Management and other Novel Trends in Solar Cells Dr M. Mendes (UNL)	Research & Educational Activities within ELBYSIER The TCM group Activities Dr V. Binas (UoC)	Research & Educational Activities within ELBYSIER The MINES Dr M. Donahue (MINES)
1700 - 1830	Setup the Journal Club Groups	Self Study Session / Journal Club Preparation	ELBYSIER Management Meeting (ELBYSIER COORDINATORS) Self Study Session / Journal Club Preparation	Self Study Session / Journal Club Preparation	Lab Tour in the facilities of the i3N Ines Cunha (UNL)	Certificates Awards
1900 - 2100	Outside the Classroom Activities: to be arranged in Lisbon	Outside the Classroom Activities: Dinner of the IC Academics	Outside the Classroom Activities: to be arranged in Lisbon	Outside the Classroom Activities: Free time	Outside the Classroom Activities: Farewell Dinner	