Training Program 2022

This Training Program is mainly addressed to postdocs, young researchers and researchers in training.

This Training Program is a compilation of courses to be undertaken in order to boost performance, productivity, skills, and knowledge. It is organized as a tool for developing specific skills with the help of information, instruction, guidance, and practice. To successfully follow the training program, the attendance to the courses should be complemented by the participation in the different Seminar Series and Workshops (*i.e.* newcomers' seminars, external seminars, young researchers workshop and senior researchers workshop).

Young researchers are encouraged to attend other courses outside the frame of this program depending on their specific research interests.

Title	**I Ciclo Formación Online Scopus**		
Lecturer	Several	**Duration**	Several sessions 1 h
When and where?	14th – 18th February	**Registration**	Here
Additional information	This course is exclusively in Spanish. Course organized by FECYT		

Title	**II Ciclo Formación Online Scopus**		
Lecturer	Several	**Duration**	1 h per session
When and where?	First edition: 9th – 13th May Second edition: 16th – 20th May	**Registration**	Here Info & how to register: Here
Additional information	These courses are exclusively in Spanish Course organized by FECYT		

Title	**Raman Spectroscopy Training Course**		
Lecturer	Adam Wise (Application Specialist) Shayne Harrel (Spectroscopy Specialist)	**Duration**	1 h per session
When and where?	28th April 17:00-18:00 12th May 17:00-18:00 26th May 17:00-18:00 24th June 17:00-18:00 Online	**Registration**	More information and how to register Here
Additional information	Interested in Raman spectroscopy but don't know where to begin? This free short course is aimed at you. We will give a brief overview of Raman scattering, cover practical considerations for making measurements (special focus on spectrometers and detectors), explore some of its many variants and look at some current applications. No previous experience is required. Course organized by Andor Technology		

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Title	Introduction to Central Laboratories of IMDEA Energy: techniques and equipment		
Lecturer	Dr. Marta Arroyo (Technical Manager of Central Labs)	**Duration**	1-1.5 h
When and where?	2nd June 16:00 Online	**Registration**	marta.arroyo@imdea.org (not later than 26th of May 2022)
Additional information	General operation of Central Labs: Structure, equipment, sample management, analysis requests, normative, etc.		

Title	Introduction to Matlab		
Lecturer	Dr. Milan Prodanovic	**Duration**	1.5 h
When and where?	10th June 12:00 Online	**Registration**	milan.prodanovic@imdea.org (not later than 6th of June 2022)
Additional information	This course introduces the programming system and language called MATLAB. It is easy to learn, versatile and very useful for engineers and other professionals. MATLAB is a special-purpose language that is an excellent choice for writing moderate-size programs that solve problems involving the manipulation of numbers. The problems may be complex, however, the Matlab programs may solve them in a relatively simple way compared to programs written in a general-purpose language, such as C++ or Java. As a result, Matlab is being used in a wide variety of domains from the natural sciences, through all disciplines of engineering, to finance, and beyond, and it is heavily used in industry. Hence, a solid background in MATLAB is an indispensable skill in today's job market. Those who attend this course will become familiar with general concepts in computer science and obtain a solid foundation with respect to the use of MATLAB: •You will be demonstrated fundamental Matlab features and programming concepts such as variables, control structures, functions and many others. (Example: Hello World!) •You will be able to see basic file and data input/output features and how to manipulate various data types in MATLAB. (Example: loading, manipulating and saving data from Excel) •You will be introduced about the powerful support MATLAB provides for working with matrices and optimisation. (Example: Optimal Sizing of Energy Systems) •You will be shown how Matlab Simulink is used in modelling and simulation of dynamic systems. (Example: Power Network .		

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Title	Innovative methods for nanoMOF synthesis and characterization		
Lecturer	Several researchers	**Duration**	1-1.5 h
When and where?	13th-17th June (9:00 to 17:00) IMDEA Energy	**Registration**	Here
Additional information	Organized by the Project ITN HeatNMof		

Title	II Ciclo Formación Online Web of Science		
Lecturer	Several	**Duration**	Several sessions 1-1,5h
When and where?	03rd-21st October 2022. Online	**Registration**	HERE
Additional information	15 sesiones gratuitas, en español, gratuitas de 75 minutos, y casi todas, en horario de mañana. Dirigidas a la comunidad universitaria, personal de bibliotecas, comunidad investigadora y cualesquier persona usuaria de la base de datos WoS. El plazo de inscripción a estos cursos ya se encuentra abierto. Es necesario inscribirse con una cuenta de correo institucional (los correos comerciales como Gmail serán automáticamente descartados) y datos personales (datos que aparecerán en el certificado de asistencia, el cual se genera automáticamente una sola vez y recoge todos los cursos a los que se ha acudido durante este II Ciclo). Los asistentes deberán responder al 100% de las cuestiones online que se planteen durante la sesión en directo para recibir la encuesta y el posterior certificado de asistencia (a las tres semanas de finalización del ciclo de formación). Queremos emitir certificados que tengan más peso e importancia a la hora de presentarlos a concursos, convocatorias o ayudas, haciendo un seguimiento más efectivo de los asistentes a la formación. Los usuarios que deben recibir el mail de confirmación de la sesión a la que se han inscrito, o no podrán acceder a las jornadas. Estos mails automáticos, en ocasiones se almacenan en la carpeta de correo no deseado o SPAM, por lo que rogamos que revisen dicha carpeta. Una vez que han recibido la confirmación, pueden comprobar la configuración de Webex de su equipo para no tener problemas el día de la sesión.		

Title	Introduction to Electrochemical Processes		
Lecturer	Dr. Jesús Palma	**Duration**	1.5 h
When and where?	24th November 12:00-13:30 IMDEA Energy	**Registration**	Send an e-mail to elia.tomas@imdea.org not later than 21st of november
Additional information	This course is aimed to provide the thermodynamic and kinetic fundamentals of electrochemical reactions that can be used in multiple applications, e.g. energy storage and conversion, ion separation, metallurgy, synthesis and degradation of compounds…		