

**30 May – 2 June 2016**

**JCE, SCE, Israel.**

**Meeting**

# **TEMPUS MMATENG**

**“Modernization of two cycles (MA, BA) of competence-based curricula in material engineering according to the best experience of Bologna Process”**

## Meeting Agenda

### **Sunday, 29.05.2016**

Arrival of participants to Jerusalem and transfer to the accommodation.

Accommodation: Hotel "The Jerusalem little hotel"

40 Jaffa Road, Jerusalem, 94222, Israel

Phone: +97226236102

### **Monday, 30.05.2016**

Address of the venue:

10:00 Coffee in the boardroom with the college president Prof. Avi Domb and the Advanced Materials Engineering faculty members + Short introduction on "Azrieli College of Engineering Jerusalem nowadays"

11:00 A visit at AtoBe startup Accelerator and meeting with some of the teams.

12:00 Driving to JVP media quarter

12:30 A visit at SifTech Accelerator at the JVP media quarter, including meeting with startups in the current round of the accelerator, meeting with program manager at Presentence Accelerator, meeting StartUp Central representative and a quick tour at the JVP Media lab, for a wide overview of the Jerusalem startup ecosystem.

13:30 Lunch: venue the old train station

14:30 Walking tour in the German Colony

15:30 Driving back to the Azrieli College of Engineering, a board room discussion on the cooperation of JCE in MMATENG and in Erasmus KA1.

Free evening.

## **Tuesday 31.05.2016**

10:00 Coffee in the boardroom with the Advanced Materials Engineering faculty members

11:00 A visit to JCE labs

13:00 Lunch

14:00 Prof. Ivens Master class (about 1.5 hours) on “ Advances in composite materials ” with the participation of 3rd and 4th years students of Advanced Materials Engineering

16:00 Farewell

Transfer to Beer Sheva and check-in into the Leonardo Negev Beer Sheva.

Address: 4 Henrietta Szold Street,  
Beer Sheva

Phone Number: 08-6405444

## **Wednesday, 1.06.2016**

09:30 Pick-up at the hotel.

10:00-11:30 : Introduction of SCE R&D and Entrepreneurship and Innovation Center

12:00 Lunch

Traveling to Ashdod

14:00 –15:00 Master class of Prof Ivens – “Material selection” for first and second years in Mechanical Engineering Ashdod.

15:00- 16:00 Presentation of final projects and labs in Ashdod campus.

Back to Beer Sheva

TBD- Dinner meeting

## **Thursday, 2.06.2016**

9:30 Pick-up at the hotel.

10:00-11:00 Example course in Business Entrepreneurship

- 11:00 – 12:00 Master class Prof. Ivens – “Material selection” for first and second years in Mechanical Engineering Beer Sheva.
- 12:30 -13:00 Meeting with Prof. Hadad president of SCE
- 13:00 –13:30 Lunch
- 14:00-15:00 Visit to the Corrosion Research Center and meeting with the Israeli Negev student section of NACE

**Departure of participants to Tel Aviv.**

**Master Classes:**

“Material selection” , Prof Jan Ivens, **(KU Leuven)**.

The vast number of materials available for engineering applications is an opportunity and a challenge. It requires a methodological approach to select a material in the early stages of the design process. The lecture presents the materials selection approach, as developed by Prof. M. Ashby (Cambridge University), based on the definition and optimisation of the material index. The method will be illustrated by some examples.

“Advances in composite materials”, Prof. Jan Ivens **(KU Leuven)**

Every material is confronted with challenges, the so-called holes in the Ashby performance maps. This is also valid for composite materials. Two examples will be given.

Stiff and strong composites are usually brittle and prone to damage development, while tough composites are usually limited in stiffness and strength. How can “new” materials break this barrier?

High performance manufacturing techniques are usually slow and not suited for the automotive industry, while high series manufacturing typically uses short fibres and hence shows low mechanical performance. Can new and hybrid processes provide an answer?

**Participants list**

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