



SUMMER SCHOOL 2010

What creative prototyping skills training
Where Industrial Design Center I Howest, Kortrijk, Belgium
When from 06 september till 10 september
Subscribe industrialdesigncenter@howest.be
Info www.industrialdesigncenter.be

Ph: Pieter Michiels - Workshop DIY hovercraft @ Howest I Industrial Design Center

Creative prototyping skills training

"Prototyping is problem solving. It's a culture and a language. You can prototype just about anything—a new product or service, or a special promotion. What counts is moving the ball forward, achieving some part of your goal. Not wasting time." Tom Kelley, general manager IDEO

Prototyping is the shorthand of design! Industrial Design Center I Howest is organizing a 5 day hands-on training week for graduates and those about to graduate who have a passion for creation, co-creation and materialization of ideas.

When, what, who, where?

Date: 06.09.2010 – 10.09.2010, Kortrijk, Belgium

Program:

- 1 week of intensive workshops, practice and a lot of fun!
- 'learning by doing' workshops in 3D printing, lasercutting, clay modeling, thermoforming, welding techniques, creativity techniques, varnishing techniques, slip casting, product photography and virtual prototyping.
- coaching by professionals
- company visits
- teamwork: realization of ideas into real product prototypes

Participants:

Students and young professionals from several disciplines, including product design, industrial design engineering, mechanical design, architecture, applied arts, interaction design.

Factory:

The Industrial Design Center in Kortrijk, Belgium is a fab lab (fabrication laboratory), fully equipped with traditional & manual and rapid & virtual prototyping tools such as a 3D printer, a vacuum casting set up, a 3D-measuring bench with optic laser scanner, thermoforming equipment, a laser cutter, a materials library, et cetera.

Practical

Entrance fee 150 euro (all courses, materials, temporary camping & breakfast, group transports are included).
Location Industrial Design Center I Howest – Marksesteenweg 58, 8500 Kortrijk, Belgium
ECTS credits 3
Subscribe industrialdesigncenter@howest.be
More info becky.verthe@howest.be
Exposure all results will be shown at the international innovation festival Kortrijk 08-24.10.2010
www.innovationfestival-kortrijk.be

FULL PROGRAM

SUMMER SCHOOL CREATIVE PROTOTYPING SKILLS TRAINING HOWEST INDUSTRIAL DESIGN CENTER 6-10 SEPTEMBER 2010

Prototyping is the shorthand of design!

"Prototyping is problem solving. It's a culture and a language. You can prototype just about anything—a new product or service, or a special promotion. What counts is moving the ball forward, achieving some part of your goal. Not wasting time." Tom Kelley, general manager IDEO

It is the Industrial Design Center's belief that prototyping is a process in which a working model or prototype is developed for the purpose of testing the various design aspects like features, ideas, viability, functionality, output and performance. Prototyping can help streamline the design process.

TO WHOM?

The summer school is designed for all graduates and those about to graduate who have a passion for creation, co-creation and materialization of ideas. Students and young professionals from several disciplines, including product design, industrial design engineering, mechanical design, architecture, applied arts, interaction design,... are welcome.

Conditions:

Interest in hands-on prototyping (design by prototyping)

LEVEL: beginner's level OR advanced level with regard to prototyping

English-speaking

GOALS

The goal of the summer school is dual:

- to offer participants a multidisciplinary view on 'prototyping' as being a vital tool in every creative design process (design by prototyping, testing of ideas in order to come up with new insights...)
- to show different prototyping techniques; during hands-on workshops people will experience the techniques

After the summer school you will have a broad view on 'prototyping' and its many application fields.

PRICE

150 Euros/person (courses, materials, temporary camping & breakfast, group transports are included).

The summer school is co-financed by the European Union, thanks to the Creative City Challenge project. (www.creative-city-challenge.net)

CREDITS

The Summer School covers 3 ECTS credits.

Participants who want to convert those 3 ECTS credits at their institution, will have to write a report after the summer school. The assignment for the report will be explained during the week itself. The deadline for entering this report is Friday the 17th of September 2010.

Link towards the ECTS practical info package of HOWEST University College:

http://www.howest.be/Documenten/International/ECTS%20information%20guide%20incoming%20students%20version%2009%2010_web.pdf

All other participants will receive a certificate of participation by HOWEST Industrial Design Center.

SUBSCRIPTIONS

You want to subscribe?

Please fill in the **application form** and send it in an e-mail to becky.verthe@howest.be. Deadline for registration = 10th of July 2010.
The number of participants is restricted to 35. We want to keep all workshops highly interactive.

Your subscription is only valid after payment.

Please deposit 150 € on Howest's bank account:

001-2651690-77

(IBAN BE97001265169077)

with a reference "3236 - subscription summer school + NAME + COUNTRY".

On receipt of your payment, a final confirmation of your seat in the summer school will be sent by e-mail on the 20th of July 2010. Please postpone your travel arrangements until that date.

SLEEPING ACCOMODATIONS

We offer different accommodation opportunities:

Cheap & adventurous: bring your tent + sleeping bag with you and stay at our temporary camping in the lovely park just besides the school building. Lockers are available for everyone. In the park, there is an indoor swimming pool. Opening hours: 7.30 a.m. – 8.00 a.m. (ideal before lessons start!) Attention: only group showers are available. There are 2 private showers at the school campus (but one at a time please).

Still cheap, but more comfortable: Youth Hostel Kortrijk. You sleep in a room with 3, 6 or 8 beds. Prices are 15,70 euro (-26) or 17,50 euro (+26). <http://www.vjh.be> (breakfast included). We have an option on several beds there.

You can contact a hotel or B&B by your own as well.

TRAVEL ARRANGEMENTS

IMPORTANT FOR INTERNATIONAL PARTICIPANTS

Please postpone your travel arrangements until the 20th of July. If by that date, we have not reached the target number of 30 subscribed participants we will cancel the summer school out of necessity (the workshops and materials are too costly).

In any case of cancellation of the summer school, we will contact you personally and the subscription payments will immediately be refunded.

If you get into difficulty booking your trip, please don't hesitate to contact us so that we can assist you.

MORE INFO & CONTACT

For more information, please write an e-mail to:

Becky Verthé becky.verthe@howest.be

Howest Industrial Design Center

Marksesteenweg 58, 8500 Kortrijk, Belgium

Tel. +32 56 24 12 68

www.howest.be

www.industrialdesigncenter.be

www.industrieelontwerpers.be

The summer school is organized by the Industrial Design Center at Howest University College, Kortrijk, Belgium.

Industrial Design Center is embedded in the bachelor and master program industrial (product) design at Howest. Its studio is fully equipped with manual and rapid & virtual prototyping tools such as a 3D printer, a vacuum casting set up, a 3D-measuring bench with optic laser scanner, thermoforming equipment, a laser cutter, a materials library, et cetera.



FULL PROGRAM OF THE SUMMER SCHOOL

Sunday 5 th September 2010	Arrivals for international students	20.00 informal meeting in the city centre, Café Den Bras (schouwburgplein 1, 8500 Kortrijk)
Monday 6 September 2010	8.30 – 12.30 Welcome & practical briefing. <i>Becky Verthé</i> Introduction 'design by prototyping' <i>Ronald Bastiaens, academic director bachelor Industrial Product Design</i>	13.30 – 18.00 Workshop 1: quick & dirty prototyping <i>Thomas Valcke, Atohms Innovative Product Design</i>
Tuesday 7 September 2010	8.30 – 12.30 Workshop 2: Slip casting techniques <i>Lecture by Duravit</i>	13.30 – 18.00 Workshop 3: Product Photography <i>Pieter Michiels & Carl Lapeirre</i>
Wednesday 8 September 2010	8.30 – 12.30 Workshop 4: 3D printing and laser cutting <i>ProtoLab, Bart Grimonprez</i>	15.00 – 18.00 Company Visit: Materialise, Leuven
Thursday 9 September 2010	8.30 – 12.30 Workshop 5: Hand lay-up <i>KNS/Carl Grimmelprez</i>	13.30 – 18.00 Workshop 6: Clay modeling <i>KOLB Techology (Germany)</i>
Friday 10 September 2010	8.30 – 12.30 Workshop 7: Finishing of product prototypes <i>BRUNS (Netherlands)</i>	13.30 – 18.00 Closure of the summer school, parting drink and departure for everyone
Friday 17 September 2010	Deadline for submission of final report (only for students who want to convert the 3ECTS credits)	

SPEAKER'S INFO

Workshop 1: quick & dirty prototyping.

Experiments with foam, paper, plasticine, balsa wood, aluminium, rubber, textiles...

Thomas Valcke is a professor at the Industrial Design Department of Howest. He owns the company Atohms. Atohms is specialized in rethinking products from the inside-out. Re-invent things instead of restyle them, is Thomas' key message. In the past, he worked as a (conceptual) designer for PiliPili Product Design and Creax; he was product designer for SmiDESIGN. Since 2009, Thomas Valcke is a Freelance Product Designer, specialized in idea generation and concept design.

Workshop 2: slip casting.

Slip casting is the process of creating ceramic forms by pouring specialized slip into plaster molds. Once dried to the leather-hard stage, the molds are opened and the cast object removed to dry completely before firing. Slip casting as a technique is suited to the mass-production of e.g. pottery (especially for shapes not easily made on a wheel) and to the production of complex shapes; it is commonly used for sanitary ware, such as toilets and basins, and smaller pieces like figurines and teapots.

Duravit is a leading supplier of ceramic sanitaryware, bathroom furniture, accessories, bathtub furniture and wellness ideas.

Workshop 3: product photography.

Photography has many uses for business, science, art, and pleasure. This workshop is about exploring the specialties, tips & tricks of product photography.

Carl Lapeirre is a qualified European photographer, experienced in product photography.

Workshop 4: 3D printing & laser cutting.

Bart Grimonprez is project manager at Industrial Design Center's ProtoLab. Protolab as a research lab has created an expertise with regard to 'traditional, rapid & virtual prototyping'. The focus is on materialization and new applications of existing techniques and technologies in domains such as architecture, occupational therapy, product design and digital arts. Via permanent updating of knowledge, ProtoLab is able to respond to special prototyping requests of companies. The lab is equipped with rapid prototyping technology (3D printing), a vacuum casting set up, a 3D-measuring bench with optic laser scanner, thermoforming equipment, a laser cutter and manual prototyping tools and materials.

Workshop 5: hand lay-up

Experiments with advanced manual prototyping techniques; making a 3D free form with composite materials (glass fibre, epoxy, polyester).

Carl Grimmelprez is a professor at the Industrial Design Department of Howest University College. "Think in shapes and materials" serves as his motto. Carl owns the company Hands-on and he regularly gives professional trainings to companies in cooperation with KNS Consist.

Through many years of experience in the plastics industry, KNS Consist is a reference-firm for manufacturers and individuals for the purchase of products and materials or rigorous testing in the KNS lab.

Workshop 6: clay modeling by KOLB

The Kolb Group consists of the 3 companies "Franz Kolb GmbH", "Kolb Technology GmbH" and "Kolb America Inc." and bases its competence on a long and rich tradition. Franz Kolb GmbH has been a supplier of modeling materials for more than 100 years. For the last 20 years the main focus has been styling clay, especially for automotive design studios. In 2001 Kolb Technology emanated from the venerable brand "Franz Kolb" to fulfill the needs of modern modeling. Kolb's product family StudioLine offers an integrated solution package that speeds up the communication between digital and physical model in the design process. Dedicated to the sophisticated work in a design studio the Kolb Group delivers not only well approved and favored tools and materials but tries to push the development of novel technologies to new horizons.

Workshop 7: finishing of prototypes

BRUNS (the Netherlands) is a production and engineering company for exhibitions in museums, information centres, science centres and creator of presentation models/blow-ups. For the industrial market they engineer and produce show prototypes and presentation models on a large scale and with a wide range of technology. They are accustomed to working with designers and customers to the design-and-build method, focusing on the addition of specific knowledge and skills in each specific field. Their approach is based upon knowledge-based engineering and prototyping, with the use of all modern technologies, machines and high technology equipment.



EVALUATION

Personal evaluation:

Evaluation per workshop: attendance, participation, 1 or 2 exercises (%80)

Evaluation on the basis of a final report (%20) – only for students wanting to accredit the ECTS credits.

During the summer school ‘creative prototyping skills training’, participants will develop several competences:

- The application of different prototyping techniques: quick & dirty prototyping, slipcasting, product photography, 3D printing & laser cutting, hand lay-up, clay modeling and finishing of prototypes
- The development of a critical & creative attitude towards prototyping
- The ability to communicate with prototypes
- The understanding of a hands-on prototyping methodology
- Teamwork within a small team, realizing concrete assignments within a short time span

EXPOSURE

The results of the summer school will be shown at the international innovation festival Kortrijk 08-24.10.2010

www.innovationfestival-kortrijk.be

FUN

We foresee an evening program with barbecue, (open air) movies such as ‘Objectified’ and other activities (the full program will be announced by the student association on Monday morning the 6th)

KORTRIJK AND THE REGION

The city of Kortrijk in Belgium is known for its design history and atmosphere. The design culture is embraced in the industrial activity of the region as well. E.g., there's lots of businesses in lighting, innovative textiles or furniture.

The Howest campus in Kortrijk offers among others unique higher education programs in industrial design engineering, industrial product design, digital arts & entertainment, webdesign and communication technology. Howest has launched The Studios, a unique accelerator and business incubator for young start-ups and entrepreneurs in multimedia, gaming and product design.

The annual week of design in Kortrijk takes place in the month of June. 'week van het ontwerpen' has become the annual highlight for every student following a technical-creative course in Kortrijk and beyond, be it at secondary, higher, post-university or evening-course level. Participating students are put in contact with federations, freelance designers, innovative companies and design bureaus, all of whom have their own stand at the fair.

The Interior Foundation Kortrijk promotes creativity in product development and design, through the means of a major international Biennale in October, which offers an overview of the most recent developments and the most successful projects in product development and design. Many international manufacturers of contemporary design introduce their latest and best products to professional and public visitors at the Interieur Biennale. Alongside these major companies, however, the young talents of today and tomorrow, the educational establishments and supporting organizations with an interest in design, are not absent from the Biennale. Their work is shown at the YoungDesignersFair part of the fair. www.interieur.be

From 8 up to 25 October 2010 Kortrijk will organize its Innovation Festival (IF...) with the support of the European Commission. For 2 full weeks, workshops, seminars, exhibitions and fairs will immerse visitors into the world of innovation and product development. www.innovationfestival-kortrijk.be