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Langue d'enseignement	Anglais
Lieu du cours	Louvain-la-Neuve
Préalables	Students are invited to apply to professors in charge of the course by sending a CV and a motivation letter by SEPTEMBER 21 at latest, by email to the professors in charge of the lecture. They will be able to register for this course only after having received the authorization
Thèmes abordés	Design thinking, innovation, creativity, transition, user experience and adoption
Acquis d'apprentissage	<p>A la fin de cette unité d'enseignement, l'étudiant est capable de :</p> <ul style="list-style-type: none"> • Identify / evaluate / improve innovative / relevant / realistic idea by demonstrating leadership in an uncertain environment in the domain of sustainability or transition; • Adopt a holistic approach to tackle socio-technical issues and innovate under constraints; • Develop and / or improve a product / service / technology following a rigorous innovation method which accounts for all the externalities; • Identify stakeholders / clients and assess their expectations; • Identify new Users Experience (UX) expectations from the innovation and assess them • Identify, mobilize and manage resources and networks needed to develop an innovation project (team, partners, consultants, resources, ...); • Identify ways to have potential users which could acknowledge the benefit(s) of a project; • To communicate, evolve, work in a team and develop a project in a multicultural and multidisciplinary context; • Be creative and bold, dare to violate the customs and dominant practices, demonstrate initiative and risk-taking. <p>This course contributes to learning outcomes 2, 3, 4, 5 of the targeted reference system of competences for EPL students.</p>
Modes d'évaluation des acquis des étudiants	<p>Students' learning outcomes will be evaluated on the basis of the following elements:</p> <ul style="list-style-type: none"> • At the end of each stage of the project, the students will write an individual summary of the learnings. The student must reflect on their choices and actions. These summaries will account for 50% of the final mark. • The final presentation of the project by the group will account for 50% of the final mark.
Méthodes d'enseignement	<p>The course is organised in two stages.</p> <ul style="list-style-type: none"> • two full days of kick-off: Introduction to design thinking through seminars and small-scale experimentations with a micro-challenge. • project spanning over 10 weeks with weekly workshops from 6:15 p.m. to 9:15 p.m. every Monday. Throughout their project students will be supervised by professionals in the domain of innovation. The project ends with a public presentation.
Contenu	<p>This teaching is to make students aware of approaches such as Design Thinking, Lean startup and Effectuation. It also seeks the appropriation by the students of innovative design method and to learn the art of pitching. Those design methodologies will help the students to embrace the complexity of the capturing major societal issues including a user experience prospective, to step back and think about new ways of producing objects and services by integrating criteria of success which go beyond the technical efficiency and economic profitability. This course will contribute to the development of the critical spirit of the students. Concretely, it includes the following:</p> <ul style="list-style-type: none"> • Clarification of a request or an issue in the domain of sustainable development and/or the transition • Finding solutions using methods promoting creativity and relevant user experience • Prototyping solutions • Assessment of the scalability, learnability and usability of the chosen solution • Communication in the form of pitches • Project management in a multicultural context
Faculté ou entité en charge:	EPL

Programmes / formations proposant cette unité d'enseignement (UE)				
Intitulé du programme	Sigle	Crédits	Prérequis	Acquis d'apprentissage
Master [120] en communication multilingue	MULT2M	5		
Master [120] en sciences de gestion	GESM2M	5		
Master [120] en droit	DROI2M	5		
Master [120] : ingénieur civil en chimie et science des matériaux	KIMA2M	5		
Master [120] : ingénieur civil des constructions	GCE2M	5		
Master [120] : ingénieur civil biomédical	GBIO2M	5		
Master [120] en linguistique	LING2M	5		
Master [120] : ingénieur civil mécanicien	MECA2M	5		
Master [120] en sciences de la santé publique	ESP2M	5		
Master [120] : ingénieur civil électricien	ELEC2M	5		
Master [120] : ingénieur civil physicien	FYAP2M	5		
Master [120] : ingénieur civil en informatique	INFO2M	5		
Master [120] en administration publique	ADPU2M	5		
Master [120] en sciences informatiques	SINF2M	5		
Master [120] : ingénieur de gestion	INGE2M	5		
Master [120] en sciences de gestion	GEST2M	5		
Master [120] : ingénieur civil électromécanicien	ELME2M	5		

Master [120] : ingénieur civil en mathématiques appliquées	MAP2M	5		
Master [120] : ingénieur civil en science des données	DATE2M	5		
Master [120] : ingénieur de gestion	INGM2M	5		
Master [120] en sciences de la motricité, orientation éducation physique	EDPH2M	5		
Master [120] en science des données, orientation technologies de l'information	DATI2M	5		
Master [120] : ingénieur civil en génie de l'énergie	NRGY2M	5		