

3.00 credits

22.5 h + 15.0 h

Q1

Teacher(s)	. SOMEBODY ;Guay Alexandre ;
Language :	French
Place of the course	Louvain-la-Neuve
Learning outcomes	
Evaluation methods	First session: Written exam (85%), continuous evaluation (15%). Second and third session: written exam (100%)
Teaching methods	If possible, teaching and practical work will be provided in person. If not in a comodal way or fully online.
Content	1 - Introduction: Norms in technologies 2 – Concept: risk et expertise 3 – Ethical theory: consequentialism 4 – Concept: professional codes 5 – Ethical theory: deontology 6 – Concept: rights and freedom 7 – Ethical theory: virtue ethics 8 – Concept: biases and freedoms 9 – Ethical theory: care ethics 10 – Application: Numerical governance 11 – Application: Drones and robots 12 – Application: Transition and sustainability
Inline resources	Class Moodle website.
Bibliography	<p>Bibliographie sommaire</p> <p>Chamayou, Grégoire. <i>Théorie du drone</i>, La fabrique: Paris, 2013. 363 p.</p> <p>Dumouchel, Paul ; Damiano, Luisa. <i>Vivre avec les robots : essai sur l'empathie artificielle</i>, Seuil: Paris, 2016. 224 p.</p> <p>Friis, Jan Kyrre Berg Olsen ; Pedersen, Stig Andur ; Hendricks, Vincent F. <i>A companion to the philosophy of technology</i>, Wiley-Blackwell: Chichester., 2009. xv, 571 p.</p> <p>Hansson, Sven Ove, éd. 2017. <i>The Ethics of Tecnology</i>, Rowan & Littlefield: London.</p> <p>Jasanoff, Sheila. <i>The ethics of invention : technology and the human future</i>, W. W. Norton: New York (N.Y.), 2016. x, 306 p.</p> <p>Johnson, D.G. 2020. <i>Engineering Ethics</i>, Yale University Press.</p> <p>Kroes, Peter, et Peter-Paul Verbeek, éd. 2014. <i>The Moral Status of Technical Artefacts</i>. Vol. 17. Philosophy of Engineering and Technology. Dordrecht: Springer Netherlands. http://link.springer.com/10.1007/978-94-007-7914-3.</p> <p>Martin, M.W. et R. Schinzinger. 2005. <i>Ethics in Engineering</i>, fourth edition, McGraw-Hill.</p> <p>Mitcham, Carl ; Ferre, Frederick. <i>Ethics and technology</i>, JAI Press: Greenwich, 1989. XVIII, 306 p.</p> <p>Murphy, Colleen, Paolo Gardoni, Hassan Bashir, Charles E. Harris Jr., et Eyad Masad, éd. 2015. <i>Engineering ethics for a globalized world</i>. New York, NY: Springer Berlin Heidelberg.</p> <p>Poel, Ibo, et David Goldberg, éd. 2010. <i>Philosophy and Engineering: Vol. 2</i>. Philosophy of Engineering and Technology. Dordrecht: Springer Netherlands. http://link.springer.com/10.1007/978-90-481-2804-4</p> <p>Poel, Ibo van de, et Lambèr M. M. Royakkers. 2011. <i>Ethics, Technology, and Engineering: An Introduction</i>. Malden, Mass: Wiley-Blackwell. Une bonne introduction au sujet, si vous deviez ne lire qu'un livre, ce serait celui-là.</p> <p>Verkerk, Maarten Johannes ; Hoogland, Jan ; van der Stoep, Jan ; Nelson, Mark. <i>Philosophy of technology : an introduction for technology and business students</i>, Routledge/Taylor & Francis: London, 2016. xvii, 336 p.</p> <p>Vermaas, Pieter E., éd. 2009. <i>Philosophy and design: from engineering to architecture</i>. Dordrecht: Springer.</p> <p>Waelbers, Katinka. 2011. <i>Doing Good with Technologies: Vol. 4</i>. Philosophy of Engineering and Technology. Dordrecht: Springer Netherlands. http://link.springer.com/10.1007/978-94-007-1640-7.</p>
Faculty or entity in charge	BTCI

Programmes containing this learning unit (UE)

Program title	Acronym	Credits	Prerequisite	Learning outcomes
Bachelor in Engineering	FSA1BA	3		