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| The title of the course | **Management of Technology and Innovation** |
| Faculty | [Faculty of Mechanical Engineering and Computer Science](http://eng.ath.bielsko.pl/index.php/faculties/gerg) |
| The level of studies | Postgraduate (MA)  Engineer (BSc) |
| Semester | Summer |
| The form of classes and number of hours | Lecture (Tutorial system)/Project |
| Language of instruction | English |
| The number of ECTS | 2 ECTS |
| Teacher | dr inż. Aleksander Moczała |
| The aims of the course  (maximum 500 characters) | This course Management of Technology and Innovation looks at the importance of scanning the environment for signals which can help shape and focus effective technological change, which of these signals to respond to , and the form that response should take - the development of a technology strategy, tools and techniques, explores the different routes through which a firm can acquire the technological knowledge it needs to exploit strategic option, the design of technology implementation projects, implementation problems, learning the development of improved knowledge and capacity to do things comes about in two ways: development of improved technical capability, ' development of more effective management of the process of technological change. |
| The content of the course: main topics and key ideas | 1. Signals for change  2. Technology strategy  3. Technology acquisition  4. Implementing technology  5. Learning to improve technology management |
| Didactics methods | multimedia presentation |
| Course requirements | seminar paper |
| Literature (basic and supplementary) | Basic:   1. ICS, UNIDO: Training Course on Technology Management 2. Everett M. Rogers, Diffusion of Innovations, 5th Edition 3. Dogson M., Gann D., Salter A., The management of technological innovation. Strategy and practice. Oxford University Press. 4. Eric Ries, The Lean Startup: How Today's Entrepreneurs Use Continuous Innovation to Create Radically Successful Businesses 5. Praveen Gupta, Brett E. Trusko, Global Innovation Science Handbook   Supplementary:   1. Moczała A.: Zarządzanie Innowacjami, Wydawnictwo Akademii Techniczno-Humanistycznej, Bielsko-Biała 2005. Knosala R., Boratyńska-Sala A., Jurczyk-Bunkowska M., Moczała A.: Zarządzanie Innowacjami, PWE, Warszawa 2014 2. Mauborgne Renee, Strategia błękitnego oceanu MT Biznes 3. Matusiak K.: Innowacje i transfer technologii, PARP, Warszawa 2005 4. Krawiec F.: Zarządzanie projektem innowacyjnym produktu i usługi, DIFIN, Warszawa 2000. 5. Sojkin B. Red.: Zarządzanie produktem, PWE, Warszawa 2002. |
| The effects of the education   * knowledge * skills * social competences | * The student knows process and problems and tools of Management of Technology and Innovation. * The student is able to use the basic methods and tools of Innovation Management. * The student understands the importance of innovation and the potential of technology |