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| Faculty | [**Faculty of Mechanical Engineering and Computer Science**](http://eng.ath.bielsko.pl/index.php/faculties/gerg) |
| The level of studies | Postgraduate (MA) |
| Semester | Winter/Summer |
| The form of classes and number of hours | Lecture/Project  15h/15h |
| Classes conducted for Polish students. Erasmus students can join them | No, classes only for Erasmus students |
| Language of instruction | English |
| The number of ECTS | **2 ECTS** |
| Teacher | dr hab. inż. Izabela Kutschenreiter-Praszkiewicz, prof. UBB |
| The aims of the course  (maximum 500 characters) | The course is focused on gain knowledge of the practical issues of DSS implementation.  The course examines rule-based systems and neural network applications. |
| The content of the course: main topics and key ideas | Introduction – DSS range of application, methods and tools  Knowledge representation and acquisition  DSS development with chosen software |
| Didactics methods | Presentations, project |
| Course requirements | Attendance, report |
| Literature (basic and supplementary) | Kulikowski R., Stefańsk J.: Decision making models for management and manufacturing System Research Institute. - Warszawa : Omnitech Press, 1990  Pokojski J.: IPA : concepts and applications in engineering. London : Springer-Verlag, 2004  Kallman E., Reinharth L.: Information systems for planning and decision making: the strategic and operational management of human resources, finance, manufacturing and marketing through information . New York: Van Nostrand Reinhold Company, 1984  Phillips-Wren G., Ichalkaranje N., Jain L.: Intelligent decision making: an AI-based approach - Berlin ; Heidelberg: Springer-Verlag, 2008.  Pagnoni A.: Project engineering: computer - oriented planning and operational decision making. Berlin: Springer-Verlag, 1990 |
| The effects of the education   * knowledge * skills * social competences | * students know tools and methods useful in DSS development * students are able to gain knowledge from different sources * students are able to use chosen DSS methods and tools  students are able to identify and solve decision problems in groups or individually |