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SYLLABUS

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| Name and code of the course | **BIO471 BIOFUELS** |
| Instructors | Prof. Dr. Sevgi ERTUĞRUL KARATAY |
| Level | Undergraduate |
| Credit | 3 .0 ECTS: 5.0 |
| Course Type | Selective |
| Course Content | renewable energy, biodiesel, bioethanol, biobutanol, methane, biohydrogen, microbial fuel cell |
| Goals of the course | To give comprehensive information about diversity of biofuels, feedstocks, production methods and potential application areas. To examine the biofuels in terms of environment, economy, sustainability and clean energy in addition to advantages to fossil fuels. Improve the ability of the students’ thinking and evaluation of biofuels. |
| Weekly course hours | 2 hours/week |
| Language | ENGLISH |
| Prerequisite | - |
| Recommended sources | The Science of Algal Fuels, Richard Gordon, Joseph Seckbach, Spinger, 2012  Biocatalysis and Bioenergy; Ching T. Hou, Jei-Fu Shaw, 2008, John Wiley & Sons Ltd.  Biofuels Engineering Process Technology; Caye Drapcho, Nghiem Phu Nhuan, Terry H. Walker, 2008  Biofuels; Wim Soetaert, Erick J. Vandamme; 2009, John Wiley & Sons Ltd.  Gasoline, Diesel and Ethanol Biofuels from Grasses and Plants; Ram B. Gupta, Ayhan Demirbaş, 2011, Cambridge University Press  Introduction to Biofuels, David M. Mousdale, 2010, Taylor and Francis  Microbial Biotechnology, Energy and Environment, Rajesh arora, CAB International, 2012  Sustainable Biotechnology; Om V. Singh, Steven P. Harvey, 2010, Springer |
| Laboratory Practice | 2 hours/week |