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SYLLABUS

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| Name and code of the course | **BIO432 PROKARYOTIC DIVERSITY** |
| Instructors | Prof. Dr. Sevgi ERTUĞRUL KARATAY |
| Level | Undergraduate |
| Credit | 2 .0 ECTS: 5.0 |
| Course Type | Selective |
| Course Content | microbial evolution, bacteria, archae, unusual microorganism |
| Goals of the course | The aim of the course is to introduce prokaryotes, which have existed for billions of years and constitute a large part of life. Many species have been used in today's biotechnology, increasing the importance of these organisms. In this context, the aim of this course is to teach the evolutionary processes, diversity, phylogeny, similarities and differences between bacteria and other living organisms, the description of cell structures and metabolisms specific to plants, animals and humans, and the applications of prokaryotes in biotechnological applications. |
| Weekly course hours | 2 hours/week |
| Language | ENGLISH |
| Prerequisite | - |
| Recommended sources | 1) Brock Biology of Microorganisms (15h edition), Madigan, M., Martinko, J. Stahl, D., Clark D. Pearson Education Benjamin Cummings, 2017.  2) The Prokaryotes, third edition, Volume 3-7, Dworkin, M. (Editor in chief), Springer, 2006  3) Bergey’s Manual of Systematic Bacteriology, John G. Holt. Volume 2-3: Proteobacteria Part B: Gammaproteobacteria, Springer, 2005-The Firmicutes, Springer 2009.  4) Archaea Molecular and Cellular Biology, Edited by Ricardo Cavicchioli, 2007, American Society for Microbiology |
| Laboratory Practice | - |