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Syllabus

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| Name and code of the course | **PHA702 COMPUTER USAGE AND CALCULATION IN ANALYTICAL CHEMISTRY** |
| Instructors | ASSOC. PROF. DR. ÖZGÜR ÜSTÜNDAĞ |
| Level | Undergraduate |
| Credit | 1 |
| Course Type | Selective |
| Course Content | Analytical model designs depending on temperature, pressure, pH, wavelength, absorbance, fluorescence and chromatographic capacity factor. Regression analysis. Writing and using algorithms for calibrations. Calculation of selectivity and sensitivity in calibrations. Transformation methods of analytical signals. Application of computer programs regarding analytical methods and calculations. Basic mathematical calculations. Purity calculations. Analytical laboratory devices and their calibrations |
| Goals of the course | 1) Uses word and excel programs. 2) Have knowlege about validation parameters and calculates them. 3) Able to conctruct basic equations of analytical chemistry and solves problems. 4) Solves the calculations related to the application of analytical methods 5) Provides solution to analytical calculations related to analysis procedures, method applications and method developmet |
| Weekly course hours | 1 hours/week |
| Eğitim Dili | ENGLISH |
| Prerequisite | - |
| Resources | Skoog and West, Fundamentals of Analytical Chemistry |
| Laboratory Practice | - |