Content

| Course Code | Course Name | Semester | Theory | Practice | Lab | Credit | ECTS |
|-------------|-----------------------------|----------|--------|----------|-----|--------|------|
| MAT325 | Theory of Complex Functions | 6 | 4 | 0 | 0 | 4 | 8 |

| Prerequisites | |
|------------------------|--|
| Admission Requirements | |

| Language of Instruction | French |
|-------------------------|--|
| Course Type | Compulsory |
| Course Level | Bachelor Degree |
| Objective | Introduce the student to the universe of complex functions and provide basis for topics such as functional analysis, Riemann surfaces, complex geometry and modular forms. |
| Content | Complex numbers. Holomorphic functions. Power series. Analytic functions. Derivative and limit. Properties of analytic functions. Laurent series. Classification of singularities. Conformal maps. Rouche teorem. Cauchy integral theoremi. Maksimum principle. Residue theorem. Belirli intgegral hesabına uygulamaları. |
| References | Introuction to complex analysis, Bak & Newman. |

Theory Topics

| Week | Weekly Contents |
|------|-----------------|
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