

| 2 | Orientable and non-orientable Riemann surfaces and their properties |  |
| :---: | :---: | :---: |
| 3 | Compact Riemann surfaces and their genus |  |
| 4 | Automorphisms of Riemann surfaces and conformal equivalences of Riemann surfaces |  |
| 5 | Covering surfaces of Riemann surfaces, differentials of second order, surface integrals |  |
| 6 | Harmonic and analytic differentials and their properties |  |
| 7 | Harmonic and analytic differentials, Hilbert spaces of differentials and their properties |  |
| 8 | The existence theorem of harmonic and analytic differentials, the Riemann-Roch theorem |  |
| 9 | Construction Riemann surfaces of logarithm function and its properties |  |
| 10 | Construction Riemann surfaces of polynomial and root functions and their properties |  |
| 11 | Riemann surfaces of algebraic functions and their properties |  |
| 12 | Conformal equivalences of Riemann surfaces |  |
| 13 | Automorphisms of Riemann surfaces and their properties. |  |
| 14 | Conformal equivalence of tori and covering surfaces of Riemann surfaces and their properties |  |
| 22 Textbooks, References and/or Other Materials: |  | [1] Introduction to Riemann Surfaces, G. Springer, <br> [2] Complex Functions, G.A. Jones, D. Singerman. |
| 23 | Assesment |  |
| TERM LEARNING ACTIVITIES |  | WEIGHT |
|  |  | 0.00 |
| Quiz | 0 | 0.00 |
| Homeworks, Performances |  | 0.00 |
| Final Exam |  | 100.00 |
| Total | 1 | 100.00 |
| Contribution of Term (Year) Learning Activities to Success Grade |  | 0.00 |
| Contribution of Final Exam to Success Grade |  | 100.00 |
| Total |  | 100.00 |
| Measurement and Evaluation Techniques Used in the Course |  |  |
| 24 ECTS / WORK LOAD TABLE | ECTS / WORK LOAD TABLE |  |


| Activites | Number | Duration (hour) | Total Work <br> Load (hour) |
| :--- | :--- | :--- | :--- |
| Theoretical | 14 | 3.00 | 42.00 |
| Practicals/Labs | 0 | 0.00 | 0.00 |
| Self study and preperation | 14 | 5.00 | 70.00 |
| Homeworks, Performances | 0 | 0.00 | 0.00 |
| Projects | 0 | 0.00 | 0.00 |
| Field Studies | 0 | 0.00 | 0.00 |
| Midterm exams | 0 | 0.00 | 0.00 |
| Others | 14 | 5.00 | 70.00 |
| Final Exams | 1 | 13.00 | 13.00 |
| Total Work Load |  |  | 195.00 |
| Total work load/ 30 hr |  |  | 6.50 |
| ECTS Credit of the Course |  | 5.00 |  |


| 25 | CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PQ1 | PQ2 | PQ3 | PQ4 | PQ5 | PQ6 | PQ7 | PQ8 | PQ9 | $\begin{array}{\|c\|} \hline \text { PQ1 } \\ 0 \end{array}$ | PQ11 | PQ12 | $\begin{array}{\|c} \hline \text { PQ1 } \\ 3 \end{array}$ | PQ14 | PQ15 | PQ16 |
| ÖK1 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK2 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK3 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK7 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| LO: Learning Objectives PQ: Program Qualifications |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Contrib ution Level: | 1 very low |  |  | 2 low |  |  | 3 Medium |  |  | 4 High |  |  | 5 Very High |  |  |  |

