**Department of Environmental Sciences**

**University of Peshawar**

Scheme of Studies for the Four-year Bachelor Degree in Environmental Sciences

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| Course Code | **Title of Course** | **Cr. Hr** |
|  | **1st Semester** |  |
| ES-311 | English-I (Functional English) | 3 (3-0) |
| ES-312 | Biology-I | 3 (2-1) |
| ES-313 | Basic Chemistry-I | 3 (2-1) |
| ES-314 | Mathematics | 3 (3-0) |
| ES-315 | Introduction to Environmental Science | 3 (3-0) |
| ES-316 | Pakistan Studies | 2 (2-0) |
|  | Total | **17** |
|  | 2nd Semester |  |
| ES-321 | Basic Statistics | 3 (3-0) |
| ES-322 | Geography | 3 (2-1) |
| ES-323 | English-II | 3 (3-0) |
| ES-324 | Environmental Biology-II | 3 |
| ES-325 | Islamic Studies | 2 (2-0) |
| ES-326 | Environmental Anthropology | 3 (3-0) |
|  | Total | **17** |
|  | 3rd Semester |  |
| ES-431 | English –III | 3 (3-0) |
| ES-432 | Basic Chemistry-II | 3 |
| ES-433 | Introductory Climatology | 3 (3-0) |
| ES-434 | Computer Studies | 3 (3-0) |
| ES-435 | Economics | 3 (3-0) |
| ES-436 | Psychology | 3 (3-0) |
|  | Total | **18** |
|  | 4th Semester |  |
| ES-441 | Introduction to Soil Sciences | 3 (3-0) |
| ES-442 | Fundamentals of Forestry | 3 (3-0) |
| ES-443 | Physical Geology | 3 (3-0) |
| ES-444 | Physics | 3 (2-1) |
| ES-445 | Environmental Microbiology | 3 (2-1) |
|  | Total | **15** |
|  | 5th Semester |  |
| ES-551 | Environmental Chemistry-I | 3 (2-1) |
| ES-552 | Environmental Ecology-I | 3 (2-1) |
| ES-553 | Environmental Impact Assessment-I | 3 (3-0) |
| ES-554 | Research Methodology | 3 (3-0) |
| ES-555 | Environmental Biotechnology | 3 (2-1) |
| ES-556 | Health Safety & Environment | 3 (3-0) |
|  | Total | **18** |
|  | **6th Semester** |  |
| ES-561 | Environmental Chemistry-II | 3 (2-1) |
| ES-562 | Environmental Ecology-II | 3 (2-1) |
| ES-563 | Environmental Impact Assessment II | 3 (3-0) |
| ES-564 | Remote Sensing | 3 (2-1) |
| ES-565 | Costal and Marine Environments | 3 (3-0) |
|  | Total | **15** |
|  | **7th Semester** |  |  |
| ES-671 | Environmental Policy | 3 (3-0) |
| ES-672 | Pollution Control Technology-I | 3 (3-0) |
| ES-673 | Natural Resources Management-I | 3 (3-0) |
| ES-674 | Environmental Economics-I | 3 (3-0) |
| ES-675 | Geographic Information GIS | 3 (3-0) |
|  |  |  |
|  | Total | **15** |
|  | **8th Semester** |  |
| ES-681 | Environmental Laws | 3 (3-0) |
| ES-682 | Pollution Control Technology-II | 3 (3-0) |
| ES-683 | Natural Resources Management-II | 3 (3-0) |
| ES-684 | Environmental Economics-II | 3 (3-0) |
| ES-689 | Internship/Research Report | 4 (4-0) |
|  | Total | **16** |
|  | **Grand Total** | **131** |