



Program Curriculum

Table 1. Compensatory Courses

| No. | Title of Course | Theoretical (No. of credits) | Practical (No. of credits) | Total |
|-----|---------------------------------------|------------------------------|----------------------------|-----------|
| 1 | Medical information systems | 0.5 | 0.5 | 1 |
| 2 | Advanced leishmaniasis | 2 | 1 | 3 |
| 3 | Advanced malariology | 2 | 1 | 3 |
| 4 | Molecular entomology | 1 | 1 | 2 |
| 5 | Biochemistry of pesticides | 2 | 0 | 2 |
| 6 | Epidemiology of vector-borne diseases | 2 | 0 | 2 |
| 7 | Arbovirology | 2 | 0 | 2 |
| | Total | 11.5 | 3.5 | 15 |

Table 2. Core Courses

| No. | Title of Course | Theoretical (No. of credits) | Practical (No. of credits) | Total | Prerequisite or Concurrent Courses |
|-----|---|------------------------------|----------------------------|-------|------------------------------------|
| 8 | Advanced toxicology and biochemistry of pesticides | 2 | 1 | 3 | - |
| 9 | Insect pathology | 2 | 0 | 2 | - |
| 10 | Epidemiology of tropical and zoonotic diseases | 2 | 0 | 2 | - |
| 11 | Surveillance and management of arthropod-borne diseases | 2 | 0 | 2 | 10 |
| 12 | New methods and integrated vector control | 2 | 0 | 2 | 8 |
| 13 | Research project management | 1 | 0.5 | 0.5 | - |
| 14 | Seminar 1 | 0 | 1 | 1 | - |
| 15 | Seminar 2 | 0 | 1 | 1 | - |
| 16 | Thesis | 0 | 20 | 20 | - |

Table 3. Non-Core Courses

| No. | Title of Course | Theoretical (No. of credits) | Practical (No. of credits) | Total | Prerequisite or Concurrent Courses |
|-----|--|------------------------------|----------------------------|-------|------------------------------------|
| 17 | Mathematical epidemiology of vector-borne diseases | 2 | 0 | 2 | 10 |
| 18 | Medical helminthology | 2 | 1 | 1 | - |
| 19 | Principles of microscopy and photomicrography | 2 | 1 | 1 | - |
| 20 | Insect biochemistry | 2 | 1 | 1 | - |
| 21 | New methods of instrumental analysis | 2 | 1 | 1 | - |
| 22 | Aquatic insects | 2 | 1 | 1 | - |
| 23 | Ecotoxicology | 2 | 0 | 2 | 8 |
| 24 | Health system management in Iran | 1 | 0 | 1 | - |
| 25 | Management and control of urban pests | 2 | 0 | 2 | - |
| 26 | Care and use of laboratory animals | 1 | 0.5 | 0.5 | - |
| 27 | Quantitative ecology of insects | 2 | 0 | 2 | - |