## BHARATHIAR UNIVERSITY: COIMBATORE 641 046

**B. Sc., ZOOLOGY CURRICULUM**

*(For the students admitted during the academic year 2020 – 21 onwards)*

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Part** | **Course**  **Code** | | **TITLE OF THE**  **COURSE** | **Credits** | **HOURS** | | **MAXIMUM MARKS** | | | | |
| **Theory** | **Practical** | **CIA** | **ESE** | | | **Total** |
|  | **FIRST SEMESTER** | | | | | | | | | | |
| I | 11T | | Language I | 4 | 6 | - | 25 | 75 | | 100 | |
| II | 12E | | English I | 4 | 6 | - | 25 | 75 | | 100 | |
| III | 13A | | Core Course I: Animal Diversity –  Non Chordate | 4 | 6 | - | 25 | 75 | | 100 | |
| III |  | | Core Practical I | - | - | 4 | - | - | | - | |
| III | 1AH | | Allied A Course I:  **Chemistry/Botany/ Biochemistry** | 3 | 4 |  | 20 | 55 | | 75 | |
| III |  | | Allied Practical | - | - | 2 | - | - | | - | |
| IV | 1FA | | Environmental Studies | 2 | 2 | - | - | 50 | | 50 | |
|  | **Total** | | | **17** | - | - | - | - | | **425** | |
|  | **SECOND SEMESTER** | | | | | | | | | | |
| I | 2IT | | Language II | 4 | 6 | - | 25 | 75 | | 100 | |
| II | 22E | | English II | 4 | 6 | - | 25 | 75 | | 100 | |
| III | 23A | | Core Course II: Animal Diversity– Chordate | 4 | 6 | - | 25 | 75 | | 100 | |
| III | 23P | | Core Practical I | 4 | - | 4 | 40 | 60 | | 100 | |
| III | 2AH | | Allied A Course II:  **Chemistry/Botany/**  **Biochemistry** | 3 | 4 | - | 20 | 55 | | 75 | |
| III | 2PH | | Allied Practical | 2 | - | 2 | 20 | 30 | | 50 | |
| IV | 2FB | | Value Education –  Human Rights | 2 | 2 | - | - | 50 | | 50 | |
|  | **Total** | | | **23** | - | - | - | - | | **575** | |
|  | **THIRD SEMESTER** | | | | | | | | | | |
| I | 3IT | Part I-Language III | | 4 | 6 | - | 25 | | 75 | 100 | |
| II | 32E | Part II-English III | | 4 | 6 | - | 25 | | 75 | 100 | |
| III | 33A | Core Course III: Comparative  Anatomy of Vertebrates. | | 4 | 5 | - | 25 | | 75 | 100 | |
| III |  | Core Practical II | | - | - | 2 | - | | - | - | |
| III | 3AJ | Allied B Course I:  **Botany/Chemistry/ Biochemistry** | | 3 | 4 | - | 20 | | 55 | 75 | |
| III |  | Allied Practical | | - | - | 2 | - | | - | - | |
| IV | 3ZA | Skill Based I: Sericulture | | 3 | 3 | - | 20 | | 55 | 75 | |
| IV | 3FC | Non Major Elective I \* | | 2 | 2 | - | - | | 50 | 50 | |
|  | **Total** | | | **20** | - | - | - | | - | **500** | |



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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **FOURTH SEMESTER** | | | | | | | | |
| I | 41T | Part I-Language IV | 4 | | 6 | - | 25 | 75 | 100 |
| II | 42E | Part II-English IV | 4 | | 6 | - | 25 | 75 | 100 |
| III | 43A | Core Course IV: Ecology, Evolution and Zoogeography | 4 | | 5 | - | 25 | 75 | 100 |
| III | 43P | Core Practical II | 4 | | - | 2 | 40 | 60 | 100 |
| III | 4AJ | Allied B Course II:  **Botany/Chemistry/ Biochemistry** | 3 | | 4 | - | 20 | 55 | 75 |
| III | 4PJ | Allied Practical | 2 | | - | 2 | 20 | 30 | 50 |
| IV | 4ZB | Skill Based II:  Biostatistics and Computer Applications | 3 | | 3 | - | 20 | 55 | 75 |
| IV | 4FE | Non Major Elective I \* | 2 | | 2 | - | - | 50 | 50 |
|  | **Total** | | **26** | | - | - | - | - | **650** |
|  | **FIFTH SEMESTER** | | | | | | | | |
| III | 53A | Core Course V:  Cell Biology and Biochemistry | 4 | | 5 | - | 25 | 75 | 100 |
| III | 53B | Core Course VI:  Microbiology | 4 | | 5 | - | 25 | 75 | 100 |
| III | 53C | Core Course VII:  Genetics and Immunology | 4 | | 5 | - | 25 | 75 | 100 |
| III |  | Core Practical III | **-** | | - | 2 | **-** | **-** | **-** |
| III |  | Core Practical IV | **-** | | - | 2 | **-** | **-** | **-** |
| III | 5EB | Elective Course I: A/B/C# | 3 | | 3 | - | 20 | 55 | 75 |
| III | 5EE | Elective Course II:  A/B/C# | 3 | | 3 | - | 20 | 55 | 75 |
| III |  | Elective Course III:  Practical# | - | | - | 2 | - | - | - |
| IV | 5ZC | Skill Based Course III:  Biophysics and Instrumentation. | 3 | | 3 | - | 20 | 55 | 75 |
|  | **TOTAL** | | **21** | | - | - | - | - | **525** |
|  | **SIXTH SEMESTER** | | | | | | | | |
| III | 63A | Core Course VIII: Animal Physiology. | | 4 | 5 | - | 25 | 75 | 100 |
| III | 63B | Core Course IX:  Developmental Biology. | | 4 | 5 | - | 25 | 75 | 100 |
| III | 63C | Core Course X: Biotechnology. | | 4 | 5 | - | 25 | 75 | 100 |
| III | 63P | Core Practical III | | 4 | - | 2 | 40 | 60 | 100 |
| III | 63Q | Core Practical IV | | 4 | - | 2 | 40 | 60 | 100 |
| III | 6EB | Elective Course I: A/B/C# | | 3 | 3 | - | 20 | 55 | 75 |
| III | 6EE | Elective Course II: A/B/C# | | 3 | 3 | - | 20 | 55 | 75 |
| III | 63R | Elective Course III:  Practical# | | 2 | - | 2 | 20 | 30 | 50 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| IV | 6ZP | Skill Based Course IV:  Practical | 3 | | - | 2 | 30 | 45 | 75 |
| V | 67A | Extension activities\*\* | 2 | | 1 | - | - | - | 50 |
|  |  | **Employability Readiness- Naan Mudhalvan Course** | - | | - | - | - | - | - |
|  |  | **TOTAL** | **33** | | **-** | **-** | **-** | **-** | **825** |
|  |  | **GRAND TOTAL** | **140** | |  |  |  |  | **3500** |
|  |  | **ONLINE COURSES** | | | | | | | |
|  |  | **1.** | | **SWAYAM** | | | | | |
|  |  | **2.** | | **MOOC‟S** | | | | | |

\*Non Major Elective I: Basic Tamil I / Advanced Tamil I / Yoga / Women studies   
 Non major Elective II: Basic Tamil II / Advanced Tamil II / General Awareness.

\*It is compulsory that the students opting for languages other than Tamil should choose Basic Tamil (for those who have not studied Tamil) or Advanced Tamil (for those who have studied Tamil upto HSC) as Non major elective.

\*\* Only internal marks.

## # ELECTIVE COURSES

|  |  |  |
| --- | --- | --- |
| **List of Elective Courses (Colleges can choose one course from Elective I & II, Elective**  **III will be the practical of Elective II)** | | |
| **ELECTIVE COURSES** | **SUBJECTCODE** | **TITLE OF THE COURSE** |
| Elective Course I | A | Human Genetics and Counseling – Course I & II |
|  | B | Pest and Their Control – Course I & II |
|  | C | Wild life Management and Conservation – Course I & II |
| Elective Course II | A | Pathology and Clinical Laboratory Technology – Course I &II |
|  | B | Poultry Science & Management – Course I & II |
|  | C | Apiculture – Course I & II |
| Elective Course III | A | Pathology and clinical laboratory technique – Practical. |
|  | B | Poultry Science and Management – Practical. |
|  | C | Apiculture – Practical. |

## #VALUE ADDED COURSE (OPTIONAL)

|  |  |  |
| --- | --- | --- |
| **S. No** | **PAPERS** | **TOTAL MARKS** |
| 1. | Medical Emergence Management. | 100 |
| 2. | Vermitechnology | 100 |
| 3. | Economics of Conservation | 100 |
| 4. | Intellectual Property Rights | 100 |