## BHARATHIAR UNIVERSITY: COIMBATORE 641 046

**B. Sc., ZOOLOGY CURRICULUM (Revised Scheme -11.9.2023)**

*(For the students admitted during the academic year 2022-23)*

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Part** | **Course**  **Code** | **TITLE OF THE**  **COURSE** | **Credits** | **HOURS** | | **MAXIMUM MARKS** | | | |
| **Theory** | **Practical** | **CIA** | | **CEE** | **Total** |
|  | **FIRST SEMESTER** | | | | | | | | |
| I | 11T | Language I | 4 | 6 | - | 50 | | 50 | 100 |
| II | 12E | English I | 4 | 6 | - | 50 | | 50 | 100 |
| III | 13A | Core Course I: Animal Diversity –Non Chordata | 4 | 6 | - | 50 | | 50 | 100 |
| III |  | Core Practical I | - | - | 4 | - | | - | - |
| III | 1AJ/ 1AH | Allied A Course I:  **Chemistry/Botany/ Biochemistry** | 3 | 4 |  | 30 | | 45 | 75 |
| III |  | Allied Practical | - | - | 2 | - | | - | - |
| IV | 1FA | Environmental Studies | 2 | 2 | - | - | | 50 | 50 |
|  | **Total** | | **17** | - | - | - | | - | **425** |
|  | **SECOND SEMESTER** | | | | | | | | |
| I | 2IT | Language II | 4 | 6 | - | 50 | | 50 | 100 |
| II | 22E | English II | 2 | 4 | - | 25 | | 25 | 50\* |
|  |  | **Language Proficiency for Employability**  <http://kb.naanmudhalvan.in/Special:Filepath/Cambridge_Course_Details.pdf> | 2 | 2 | - | 25 | | 25 | 50\*\* |
| III | 23A | Core Course II: Animal Diversity– Chordata | 4 | 6 | - | 50 | | 50 | 100 |
| III | 23P | Core Practical I | 4 | - | 4 | 50 | | 50 | 100 |
| III | 2AJ/ 2AH | Allied A Course II:  **Chemistry/Botany/**  **Biochemistry** | 3 | 4 | - | 30 | | 45 | 75 |
| III | 2PJ/2PH | Allied Practical | 2 | - | 2 | 25 | | 25 | 50 |
| IV | 2FB | Value Education –  Human Rights | 2 | 2 | - | - | | 50 | 50 |
|  | **Total** | | **23** | - | - | - | | - | **575** |
|  | **THIRD SEMESTER** | | | | | | | | |
| I | 3IT | Part I-Language III | 4 | 6 | - | 50 | 50 | | 100 |
| II | 32E | Part II-English III | 4 | 6 | - | 50 | 50 | | 100 |
| III | 33A | Core Course III: Comparative  Anatomy of Vertebrates. | 4 | 5 | - | 50 | 50 | | 100 |
| III |  | Core Practical II | - | - | 2 | - | - | | - |
| III | 3AH/ 3AJ | Allied B Course I:  **Botany/Chemistry/ Biochemistry** | 3 | 4 | - | 30 | 45 | | 75 |
| III |  | Allied Practical | - | - | 2 | - | - | | - |
| IV | 3ZA | Skill Based I: Sericulture | 3 | 3 | - | 30 | 45 | | 75 |
| IV | 3FC | Non Major Elective I # | 2 | 2 | - | - | 50 | | 50 |
| IV | 3NM | **Naan Mudhalvan- Digital Skills for Employability** | 2 |  |  | 25 | 75 | | 100 |
|  | **Total** | | **20+2** | - | - | - | - | | **600** |



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **FOURTH SEMESTER** | | | | | | | | | | | | | | | | | | | | | | | |
| I | | 41T | | Part I-Language IV | | 4 | | | | | 6 | | | | - | | 50 | | | 50 | | | 100 | | |
| II | | 42E | | Part II-English IV | | 4 | | | | | 6 | | | | - | | 50 | | | 50 | | | 100 | | |
| III | | 43A | | Core Course IV: Ecology, Evolution and Zoogeography | | 4 | | | | | 4 | | | | - | | 50 | | | 50 | | | 100 | | |
| III | | 43P | | Core Practical II | | 3 | | | | | - | | | | 2 | | 30 | | | 45 | | | 75 | | |
| III | | 4AH/ 4AJ | | Allied B Course II:  **Botany/Chemistry/ Biochemistry** | | 3 | | | | | 4 | | | | - | | 30 | | | 45 | | | 75 | | |
| III | | 4PH/ 4PJ | | Allied Practical | | 2 | | | | | - | | | | 2 | | 25 | | | 25 | | | 50 | | |
| IV | | 4ZB | | Skill Based II:  Biostatistics and Computer Applications | | 2 | | | | | 2 | | | | - | | 25 | | | 25 | | | 50\* | | |
| IV | | 4FE | | Non Major Elective I  General Awareness | | 2 | | | | | 2 | | | | - | | - | | | 50 | | | 50 | | |
|  | |  | | **NaanMudhalvan- Digital Skills for Employability-** Office Fundamentals  <http://kb.naanmudhalvan.in/Special:Filepath/Microsoft_Course_Details.xlsx> | | 2 | | | | | 2 | | | | - | | 25 | | | 25 | | | 50\*\* | | |
|  | | **Total** | | | | | **26** | | | | | - | | - | | | | - | | | - | | | **650** | |
|  | | **FIFTH SEMESTER** | | | | | | | | | | | | | | | | | | | | | | | |
| III | | 53A | | Core Course V:  Cell Biology and Biochemistry | | 4 | | | | | 5 | | | | - | | 50 | | | 50 | | | 100 | | |
| III | | 53B | | Core Course VI:  Microbiology | | 4 | | | | | 5 | | | | - | | 50 | | | 50 | | | 100 | | |
| III | | 53C | | Core Course VII:  Genetics and Immunology | | 4 | | | | | 5 | | | | - | | 50 | | | 50 | | | 100 | | |
| III | |  | | Core Practical III | | **-** | | | | | - | | | | 2 | | **-** | | | **-** | | | **-** | | |
| III | |  | | Core Practical IV | | **-** | | | | | - | | | | 2 | | **-** | | | **-** | | | **-** | | |
| III | |  | | Elective Course I: A/B/C# | | 3 | | | | | 3 | | | | - | | 30 | | | 45 | | | 75 | | |
| III | |  | | Elective Course II: A/B/C# | | 3 | | | | | 3 | | | | - | | 30 | | | 45 | | | 75 | | |
| III | |  | | Elective Course III:  Practical# | | - | | | | | - | | | | 2 | | - | | | - | | | - | | |
| IV | | 5ZC | | Skill Based Course III:  Biophysics and Instrumentation. | | 3 | | | | | 3 | | | | - | | 30 | | | 45 | | | 75 | | |
| IV | | 5NM | | **Naan Mudhalvan- Advanced Technology for Employability in Life Science** | | 2 | | | | |  | | | |  | | 25 | | | 75 | | | 100 | | |
|  | | **TOTAL** | | | | | **21+2** | | | | | - | | - | | | | - | | | - | | | **625** | |
|  | | **SIXTH SEMESTER** | | | | | | | | | | | | | | | | | | | | | | | |
| III | | 63A | | Core Course VIII: Animal Physiology. | | | | 4 | | | 5 | | | | - | | 50 | | | 50 | | | 100 | | |
| III | | 63B | | Core Course IX:  Developmental Biology. | | | | 4 | | | 5 | | | | - | | 50 | | | 50 | | | 100 | | |
| III | | 63C | | Core Course X: Biotechnology. | | | | 4 | | | 5 | | | | - | | 50 | | | 50 | | | 100 | | |
| III | | 63P | | Core Practical III | | | | 4 | | | - | | | | 2 | | 50 | | | 50 | | | 100 | | |
| III | | 63Q | | Core Practical IV | | | | 4 | | | - | | | | 2 | | 50 | | | 50 | | | 100 | | |
| III | |  | | Elective Course I: A/B/C## | | 3 | | | | | 3 | | | - | | | 30 | | | 45 | | | 75 | | |
| III | |  | | Elective Course II: A/B/C## | | 3 | | | | | 3 | | | - | | | 30 | | | 45 | | | 75 | | |
| III | | 63R | | Elective Course III:  Practical# | | 2 | | | | | - | | | 2 | | | 25 | | | 25 | | | 50 | | |
| 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+4** | | | | |  | | |  | | |  | | |  | | | **3700** | | |
|  | |  | | **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.

#Itis 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.

\*English II- University semester examination will be conducted for 50 marks (As per existing pattern of Examination) and it will be converted for 25 marks.

\* Skill Based II:Biostatistics and Computer Applications 4ZB: University semester examination will be conducted for 45 marks (As per existing pattern of Examination) and it will be converted for 25 marks.

\*\* NaanMudhalvan – Skill courses- external marks will be assessed by Industry and internal will be offered by respective course teacher.

\*\*\* 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 | 5EA | Human Genetics and Counseling – Course I. |
|  |  | 6EA | Human Genetics and Counseling – Course II. |
|  | B | 5EB | Pest and Their Control – Course I. |
|  |  | 6EB | Pest and Their Control – Course II. |
|  | C | 5EC | Wild life Management and Conservation – Course I. |
|  |  | 6EC | Wild life Management and Conservation – Course II. |
| Elective Course II | A | 5ED | Pathology and Clinical Laboratory Technology –  Course I. |
|  |  | 6ED | Pathology and Clinical Laboratory Technology –  Course II. |
|  | B | 5EE | Poultry Science & Management – Course I. |
|  |  | 6EE | Poultry Science & Management – Course II. |
|  | C | 5EF | Apiculture – Course I. |
|  |  | 6EF | Apiculture – Course II. |
| Elective Course III | A | 63R | Pathology and Clinical Laboratory Technique – Practical. |
|  | B | 63R | Poultry Science and Management – Practical. |
|  | C | 63R | 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 |