



SEETHALAKSHMI RAMASWAMI COLLEGE

(Autonomous)

Affiliated to Bharathidasan University

Tiruchirappalli

Accredited with A+ by NAAC (4th Cycle)



B.Sc. ZOOLOGY

Revised CBCS - OBE - BASED Curriculum Structure

(For students admitted from 2021 onwards)

| SEM | PART | COURSE | COURSE CODE | COURSE TITLE | HRS | CRD | INT/ EXT | CIA | SE | TOT |
|--------------|------|--|-------------|--|-----------|-----------|-------------|-----|----|------------|
| I | I | Language-I | U211XXLT01 | Course-I | 6 | 3 | EXT | 25 | 75 | 100 |
| | II | English-I | U211XXEE01 | Course-I | 6 | 3 | EXT | 25 | 75 | 100 |
| | III | Core Course-I | U211ZYMT01 | Biology of Invertebrates | 7 | 5 | EXT | 25 | 75 | 100 |
| | III | Core Practical-I | U212ZYMP01 | Practical-I: Biology of Invertebrates and Chordates | 2 | - | INT | - | - | - |
| | III | First Allied Course-I | U211CHAT01 | Offered by the Department of Chemistry | 4 | 3 | EXT | 25 | 75 | 100 |
| | III | First Allied Practical-I | U212CHAP01 | Practical-I: Offered by the Department of Chemistry | 2 | - | INT | - | - | - |
| | III | Cross Disciplinary Course (CDC) (Zoology & Botany) | U212XCMT01 | Integrated Farming | 1 | - | EXT | - | - | - |
| | IV | VBE | U211XXVE01 | Value Based Education | 2 | 2 | EXT | 25 | 75 | 100 |
| TOTAL | | | | | 30 | 16 | | | | 500 |

| SEM | PART | COURSE | COURSE CODE | COURSE TITLE | HRS | CRD | INT/EXT | CIA | SE | TOT |
|--------------|------|--|-------------|--|-----------|-----------|---------|-----|----|------------|
| II | I | Language-II | U212XXLT02 | Course-II | 6 | 3 | EXT | 25 | 75 | 100 |
| | II | English-II | U212XXEE02 | Course-II | 6 | 3 | EXT | 25 | 75 | 100 |
| | III | Core Course-II | U212ZYMT02 | Biology of Chordates | 5 | 5 | EXT | 25 | 75 | 100 |
| | III | Core Practical-I | U212ZYMP01 | Practical-I: Biology of Invertebrates and Chordates | 2 | 4 | INT | 40 | 60 | 100 |
| | III | First Allied Course-II | U212CHAT04 | Offered by the Department of Chemistry | 4 | 3 | EXT | 25 | 75 | 100 |
| | III | First Allied Practical-I | | Practical-I: Offered by the Department of Chemistry | 2 | 3 | INT | 40 | 60 | 100 |
| | III | Cross Disciplinary Course (CDC) (Zoology & Botany) | U212XCMT01 | Integrated Farming | 3 | 4 | EXT | 25 | 75 | 100 |
| | IV | EVS | U212XXES01 | Environmental Studies | 2 | 2 | EXT | 25 | 75 | 100 |
| TOTAL | | | | | 30 | 27 | | | | 800 |

| SEM | PART | COURSE | COURSE CODE | COURSE TITLE | HRS | CRD | INT/EXT | CIA | SE | TOT |
|-----|--------------|---------------------------|--------------|--|-----|-----------|-----------|-----|----|-----|
| III | I | Language-III | U213XXLT03 | Course-III | 6 | 3 | EXT | 25 | 75 | 100 |
| | II | English-III | U213XXEE03 | Course-III | 6 | 3 | EXT | 25 | 75 | 100 |
| | III | Core Course-III | U213ZYMT03 | Environmental Biology | 6 | 5 | EXT | 25 | 75 | 100 |
| | III | Core Practical-II | U214ZYMP02 | Practical-II: Environmental Biology, Developmental Biology and Immunology | 2 | - | INT | - | - | - |
| | III | Second Allied Course-I | U213BYAT01 | Offered by the Department of Botany | 4 | 3 | EXT | 25 | 75 | 100 |
| | III | Second Allied Practical-I | U214BYAP01 | Practical-I: Offered by the Department of Botany | 2 | - | INT | - | - | - |
| | IV | NME-I | U213ZYNE01 | Offered by other Departments | 2 | 2 | EXT | 25 | 75 | 100 |
| | IV | SBE-I | U213ZYSE01:1 | Integrated Solid waste Management | 2 | 2 | EXT | 25 | 75 | 100 |
| | TOTAL | | | | | 30 | 18 | | | |

| SEM | PART | COURSE | COURSE CODE | COURSE TITLE | HRS | CRD | INT/EXT | CIA | SE | TOT |
|-----|--------------|---------------------------|--------------|--|-----|-----------|-----------|-----|----|-----|
| IV | I | Language-IV | U214XXLT04 | Course-IV | 6 | 3 | EXT | 25 | 75 | 100 |
| | II | English-IV | U214XXEE04 | Course-IV | 6 | 3 | EXT | 25 | 75 | 100 |
| | III | Core Course-IV | U214ZYMT04 | Developmental Biology and Immunology | 6 | 5 | EXT | 25 | 75 | 100 |
| | III | Core Practical-II | U214ZYMP04 | Practical-II: Environmental Biology, Developmental Biology and Immunology | 2 | 4 | INT | 40 | 60 | 100 |
| | III | Second Allied Course-II | U214BYAT02 | Offered by the Department of Botany | 4 | 3 | EXT | 25 | 75 | 100 |
| | III | Second Allied Practical-I | U214BYAP01 | Practical-I: Offered by the Department of Botany | 2 | 3 | INT | 40 | 60 | 100 |
| | IV | NME-II | U214ZYNE02 | Offered by other Departments | 2 | 2 | EXT | 25 | 75 | 100 |
| | IV | SBE-II | U214ZYSE02:1 | Bee Keeping | 2 | 2 | EXT | 25 | 75 | 100 |
| | TOTAL | | | | | 30 | 25 | | | |

| SEM | PART | COURSE | COURSE CODE | COURSE TITLE | HRS | CRD | INT/EXT | CIA | SE | TOT |
|-----|--------------|--------------------|--------------|---|-----|-----------|-----------|-----|----|-----|
| V | III | Core Course-V | U215ZYMT05 | Principles of Physiology | 6 | 5 | EXT | 25 | 75 | 100 |
| | III | Core Course-VI | U215ZYMT06 | Cell and Molecular Biology | 6 | 5 | EXT | 25 | 75 | 100 |
| | III | Core Course-VII | U215ZYMT07 | Biological Techniques, Toxicology and Biostatistics | 6 | 5 | EXT | 25 | 75 | 100 |
| | III | Core Practical-III | U216ZYMP03 | Practical-III: Principles of Physiology, Cell & Molecular Biology, Sericulture and Applications of Biotechnology | 3 | - | INT | - | - | - |
| | III | MBE-I | U215ZYME01:1 | Sericulture | 5 | 4 | EXT | 25 | 75 | 100 |
| | IV | SBE-III | U215ZYSE03:1 | Nanotechnology in Life Sciences | 2 | 2 | EXT | 25 | 75 | 100 |
| | IV | SSD | U215XX01 | Soft Skill Development | 2 | 2 | INT | 25 | 75 | 100 |
| | TOTAL | | | | | 30 | 23 | | | |

| SEM | PART | COURSE | COURSE CODE | COURSE TITLE | HRS | CRD | INT/ EXT | CIA | SE | TOT |
|-----|------|--------------------|--------------|---|------------|------------|-------------|-----|----|-------------|
| VI | III | Core Course-VIII | U216ZYMT08 | Genetics and Evolution | 5 | 5 | EXT | 25 | 75 | 100 |
| | III | Core Course-IX | U216ZYMT09 | Microbiology | 5 | 5 | EXT | 25 | 75 | 100 |
| | III | Core Practical-III | U216ZYMP03 | Practical-III: Principles of Physiology, Cell & Molecular Biology, Sericulture and Applications of Biotechnology | 2 | 4 | INT | 40 | 60 | 100 |
| | III | Core Practical-IV | U216ZYMP04 | Practical-IV: Microbiology, Genetics & Evolution, Biological Techniques, Toxicology & Biostatistics and Aquaculture. | 4 | 4 | INT | 40 | 60 | 100 |
| | III | Project | U216ZYPJ01 | Group Project | 3 | 3 | EXT | 20 | 80 | 100 |
| | III | MBE-II | U216ZYME02:1 | Aquaculture | 5 | 4 | EXT | 25 | 75 | 100 |
| | III | MBE-III | U216ZYME03:1 | Applications of Biotechnology | 5 | 4 | EXT | 25 | 75 | 100 |
| | V | GS | U216XXGS01 | Gender Studies | 1 | 1 | INT | 25 | 75 | 100 |
| | V | Extension | U216EA01 | Extension Activity | - | 1 | INT | - | - | 100 |
| | | | | TOTAL | 30 | 31 | | | | 900 |
| | | | | GRAND TOTAL | 180 | 140 | | | | 4200 |

ALLIED COURSES

(Offered to the Students of Botany & Home Science)

| SEM | PART | COURSES | COURSE CODE | COURSE TITLE | HRS | CREDIT | INT /EXT | CIA | SE | TOT |
|--------------|------|--------------------|-------------|---|-----------|----------|----------|-----|----|------------|
| III | III | Allied Course-I | U213ZYAT01 | Course-I: Morphology and Functional aspects of Invertebrates and Chordates | 4 | 3 | EXT | 25 | 75 | 100 |
| IV | III | Allied Course-II | U213ZYAT02 | Course-II: Applied Zoology | 4 | 3 | EXT | 25 | 75 | 100 |
| | | Allied Practical-I | U213ZYAP01 | Practical-I: Morphology and Functional aspects of Invertebrates and Chordates & Applied Zoology | 4 | 3 | INT | 40 | 60 | 100 |
| TOTAL | | | | | 12 | 9 | | | | 300 |

MAJOR BASED ELECTIVE COURSES

| SEM | PART | COURSES | GROUP | COURSE CODE | COURSE TITLE | HRS | CRD | INT/ EXT | CIA | SE | TOT |
|--------------|------|---------|-------------------------------------|---------------|--|-----------|-----------|----------|-----|----|------------|
| V | III | MBE-I | Group – I (Choose any one Course) | U215ZYME0 1:1 | Course-I: Sericulture Economic Entomology | 5 | 4 | EXT | 25 | 75 | 100 |
| VI | III | MBE-II | Group – II (Choose any one Course) | U215ZYME0 2:1 | Course-II: Aquaculture Biochemistry | 5 | 4 | EXT | 25 | 75 | 100 |
| VI | III | MBE-III | Group – III (Choose any one Course) | U215ZYME0 3:1 | Course-III: Applications of Biotechnology Bioinformatics | 5 | 4 | EXT | 25 | 75 | 100 |
| TOTAL | | | | | | 15 | 12 | | | | 300 |

SKILL BASED ELECTIVE COURSES

| SEM | PART | COURSES | GROUP | COURSE CODE | COURSE TITLE | HRS | CRD | INT/ EXT | CIA | SE | TOT |
|-----|------|---------|---|----------------|--|-----|-----|-------------|-----|----|-----|
| III | IV | SBE-I | Group – I (Choose any One Course) | U215ZYSE01:1 | Course–I:Integrated Solid Waste Management Dairy Farming | 2 | 2 | EXT | 25 | 75 | 100 |
| IV | IV | SBE-II | Group – II (Choose any One Course) | U215ZYSE02:1 | Course–II:Bee Keeping Techniques in Mushroom Culture | 2 | 2 | EXT | 25 | 75 | 100 |
| V | IV | SBE-III | Group – III (Choose any One Course) | U215ZYSE03:1 | Course–III:Nanotechnology in Life Sciences Poultry Farming | 2 | 2 | EXT | 25 | 75 | 100 |

NON MAJOR BASED ELECTIVE COURSES

| SEM | PART | COURSES | COURSE CODE | COURSE TITLE | HRS | CRD | INT/ EXT | CIA | SE | TOT |
|-----|------|---------|----------------|--------------------------------|-----|-----|-------------|-----|----|-----|
| III | IV | NME–I | U215ZYNE01:1 | Course-I: Fish Culture | 2 | 2 | EXT | 25 | 75 | 100 |
| IV | IV | NME–II | U215ZYNE02:1 | Course-II: Vermiculture | 2 | 2 | EXT | 25 | 75 | 100 |

VALUE ADDED COURSES

| SEM | COURSES | COURSE TITLE |
|-----|---------|--|
| I | VAC I | Course-I: Museum Management |
| III | VAC II | Course-II: Human Health & Hygiene |
| V | VAC III | Course III: Economic Zoology for Competitive Examinations |

CERTIFICATE COURSES

| SEM | COURSES | COURSE TITLE |
|-----|---------|--|
| II | CC I | Course-I: Biofertilizers |
| IV | CC II | Course-II: Single Cell Protein |
| VI | CC III | Course III: Ornamental Fish Culture |