# BHARATHIAR UNIVERSITY, COIMBATORE – 641 046

**B.Sc., MICROBIOLOGY DEGREE COURSE CBCS - OBE PATTERN : (AFFILIATED COLLEGES)**

 **Revised Scheme of Examination for 2022-23 Batch Students**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Part** | **Study Components** | **Course Title** | **Course / Subject Code** | **Ins. hrs / Week** | **Examinations** | **Credits** |
| **Dur.** | **CIA** | **Marks** | **Total Marks** |
|  | **SEMESTER – II** |  |  |  |  |  |  |  |
| I | Language – II | 21T/M/H/F | 6 | 3 | 50 | 50 | 100 | 4 |
| II | English – II | 22E | 4 | 3 | 25 | 25 | 50\* | 2 |
|  | Language Proficiency for Employability |  | 2 | - | 25 | 25 | 50\*\* | 2 |
|  | http://kb.naanmudhalvan.in/Special:Filepath/Cambridge\_Course\_Details.pdf |
| III | Core Paper – II : Analytical Microbiology | 23A | 4 | 3 | 50 | 50 | 100 | 4 |
| III | Core Paper – III : General Biology | 23B | 3 | 3 | 50 | 50 | 100 | 4 |
| III | Core Practical – I | 23P | 3 | 6 | 30 | 45 | 75 | 3 |
| III | Allied – A : Paper – II: Biostatistics and ComputerApplications – II | 2AB | 4 | 3 | 30 | 45 | 75 | 3 |
| III | Allied Practical – I (Biostatistics and ComputerApplications) | 2PB | 2 | 3 | 25 | 25 | 50 | 2 |
| IV | Value Education – Human Rights # | 2FB | 2 | 3 | - | 50 | 50 | 2 |
|  | **TOTAL** |  | **30** | **27** | **285** | **365** | **650** | **26** |
|  | **Swatch Bharath Summer Internship** |  |  |  |  |  |  |  |
|  | **SEMESTER – III** |  |  |  |  |  |  |  |
| I | Language – III | 31T/M/H/F | 6 | 3 | 50 | 50 | 100 | 4 |
| II | English – III | 32E | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core Paper – IV : Microbial Diversity | 33A | 4 | 3 | 50 | 50 | 100 | 4 |
| III | Core Practical – II | 43P | 3 | - | - | - | - | - |
| III | Allied – B : Paper – I: Biochemistry – I /Zoology – I | 3AC | 4 | 3 | 30 | 45 | 75 | 3 |
| III | Allied Practical – II | 43Q | 2 | - | - | - | - | - |
| IV | Skill based Subject – I:Diagnostic Microbiology – I | 3ZA | 3 | 3 | 30 | 45 | 75 | 3 |
| IV | Tamil @ / Advanced Tamil # (OR) Non – MajorElective – I (Yoga for Human Excellence # / Women’s Rights # ) | 3FD | 2 | 3 | - | 50 | 50 | 2 |
|  | **TOTAL** |  | **30** | **18** | **210** | **290** | **500** | **20** |



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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **SEMESTER – IV** |  |  |  |  |  |  |  |
| I | Language – IV | 41T/M/H/F | 6 | 3 | 50 | 50 | 100 | 4 |
| II | English – IV | 42E | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core Paper – V : Microbial Physiology | 43A | 4 | 3 | 50 | 50 | 100 | 4 |
| III | Core Practical – II | 43P | 4 | 6 | 50 | 50 | 100 | 4 |
| III | Allied – B : Paper – II: Biochemistry – II / Zoology –II | 4AC | 4 | 3 | 30 | 45 | 75 | 3 |
| III | Allied Practical – II | 43Q | 2 | 3 | 25 | 25 | 50 | 2 |
| IV | NAAN MUDHALVAN-Digital Skills for employability – Office Fundamentals  |  | 2 | - | 25 | 25 | 50\*\* | 2 |
|  | [http://kb.naanmudhalvan.in/Special:Filepath/Microsoft.-Course\_details\_.xlsx](http://kb.naanmudhalvan.in/Special%3AFilepath/Microsoft.-Course_details_.xlsx) |
| I V | Tamil @ / Advanced Tamil # (OR) Non – Major Elective – II (General Awareness #) | 4FA | 2 | 3 | - | 50 | 50 | 2 |
|  | **TOTAL** |  | **30** | **24** | **280** | **345** | **625** | **25** |
|  | **SEMESTER – V** |  |  |  |  |  |  |  |
| III | Core Paper – VI : Microbial Genetics | 53A | 5 | 3 | 25 | 75 | 100 | 4 |
| III | Core Paper – VII : Principles of Immunology | 53B | 5 | 3 | 25 | 75 | 100 | 4 |
| III | Core Paper – VIII : Food Microbiology | 53C | 4 | 3 | 25 | 75 | 100 | 4 |
| III | Core Paper – IX : Medical Microbiology | 53D | 4 | 3 | 25 | 75 | 100 | 4 |
| III | Elective – I | 5EA | 4 | 3 | 25 | 75 | 100 | 4 |
| III | Core Practical – III | 63P | 5 | - | - | - | - | - |
| IV | Skill based Subject – II: Diagnostic Microbiology – II | 5ZC | 3 | 3 | 20 | 55 | 75 | 3 |
|  | **TOTAL** |  | **30** | **18** | **145** | **430** | **575** | **23** |
|  | **SEMESTER – VI** |  |  |  |  |  |  |  |
| III | Core Paper – X: Industrial Microbiology | 63A | 5 | 3 | 25 | 75 | 100 | 4 |
| III | Core Paper – XI : Environmental andAgricultural Microbiology | 63B | 5 | 3 | 25 | 75 | 100 | 4 |
| III | Core Paper – XII : Virology | 63C | 4 | 3 | 25 | 75 | 100 | 4 |
| III | Elective – II | 6EA | 4 | 3 | 25 | 75 | 100 | 4 |
| III | Elective – III | 6ED | 4 | 3 | 25 | 75 | 100 | 4 |
| III | Core Practical – III | 63P | 5 | 9 | 40 | 60 | 100 | 4 |
| IV | Skill based Subject – Practical | 6ZP | 3 | 6 | 30 | 45 | 75 | 3 |
| IV | Extension activities @ | 67A | - | - | 50 | - | 50 | 2 |
| IV | Employability readiness – Naandi – Naan Mudhalvan course |  | 20 | - | - | - | - | - |
|  | **TOTAL** |  | **30** | **30** | **245** | **480** | **725** | **29** |
| **Institutional training / Internship:** Students should undergo an institutional training / Internship for a continuous period of 15days before semester VI. It is evidenced by certificate issued by the Principal of the College.@ No University Examinations. Only Continuous Internal Assessment (CIA). # No Continuous Internal Assessment (CIA). Only University Examinations.\* **Swatch Bharath Summer Internship is mandatory – Extra 2 credit points would be given.** |

* \*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.
* \*\*Naan Mudhalvan – Skill Courses –external 25 marks will be assessed by Industry and internal will be offered by respective course teacher.