# BHARATHIAR UNIVERSITY: COIMBATORE641046

# Branch II:B.Sc. STATISTICS(CBCSPATTERN)

(Forthestudentsadmittedfromtheacademicyear**2022-2023**andonwards)

# Scheme of Examination

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Part** | **Title of the Course** | **Hours**  **/Week** | **Examination** | | | | **Credits** |
| **Duration in**  **Hours** | **Maximum Marks** | | |
| **CIA** | **CEE** | **Total** |
|  | **Semester I** | | | | | | |
| I | Language-I | 6 | 3 | 50 | 50 | 100 | 4 |
| II | English– I | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core Paper I-Descriptive Statistics-  I | 3 | 3 | 50 | 50 | 100 | 4 |
| III | Core Paper II-Descriptive Statistics -  II | 4 | 3 | 50 | 50 | 100 | 4 |
| III | Core Practical- I(Using MS Excel) | 2 | - | - | - | - | - |
| III | Allied A:Paper I-Mathematics for  Statistics– I | 7 | 3 | 50 | 50 | 100 | 4 |
| IV | Environmental Studies\* | 2 | 3 | - | 50 |  | 2 |
|  | **Total** | **30** |  | **250** | **250** | **500** | **22** |
|  | **Semester II** | | | | | | |
| I | Language II | 6 | 3 | 50 | 50 | 100 | 4 |
| II | English II | 4 | 3 | 25 | 25 | 50 | 2 |
|  | **Naan Mudhalvan**:  Language Proficiency: Effective English | 2 | 3 | 25 | 25 | 50 | 2 |
| III | Core Paper III- Applied Statistics | 7 | 3 | 50 | 50 | 100 | 4 |
| III | Core Practical- I(UsingMSExcel) | 2 | 3 | 30 | 45 | 75 | 3 |
| III | AlliedA:Paper II Mathematics for  Statistics-II | 7 | 3 | 50 | 50 | 100 | 4 |
| IV | Value Education Human Rights\* | 2 | 3 | - | 50 |  | 2 |
|  | **Total** | **30** |  | **230** | **245** | **475** | **21** |
|  | **Semester III** | | | | | | |
| I | Language III | 6 | 3 | 50 | 50 | 100 | 4 |
| II | English III | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core Paper IV-Demographic  Methods | 3 | 3 | 50 | 50 | 100 | 4 |
| III | Core Paper V-Probability  Distribution-I | 3 | 3 | 50 | 50 | 100 | 4 |
| III | AlliedB:Paper I Computer Programming for Statistical Analysis-I  (CProgramming) | 5 | 3 | 30 | 45 | 75 | 3 |
| III | Allied Practical(C&C++  Programming) | 2 | - | - | - | - | - |
| IV | Skill based Subject:  Actuarial Statistics | 3 | 3 | 50 | 50 | 100 | 4 |



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| IV | Tamil\*\* / Advanced Tamil\*(OR)Non-major elective- I(Yoga for    Rights\* | 2 | 3 | 50 | 50 | 100 | 2 |
|  | **Naan Mudhalvan**:  Digital Skills for Employability | 2 | 2 | 25 | 75 | 100 | 2 |
|  | **Total** | **32** |  | **355** | **420** | **775** | **27** |
|  | **Semester IV** | | | | | | |
| I | Language IV | 6 | 3 | 50 | 50 | 100 | 4 |
| II | English IV | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core Paper VI  Probability Distribution- II | 4 | 3 | 50 | 50 | 100 | 4 |
| III | Core Practical II(Using Scientific  Calculator) | 3 | 3 | 30 | 45 | 75 | 3 |
| III | Allied B: Paper II – Computer Programming for Statistical Analysis-II  (Object Oriented Programming withC++) | 4 | 3 | 30 | 45 | 75 | 3 |
| III | Allied Practical(C&C++  programming) | 2 | 3 | 25 | 25 | 50 | 2 |
| IV | **Naan Mudhalvan**:  Digital Skills: Office Fundamentals | 3 | 3 | 25 | 25 | 50 | 2 |
| IV | Tamil\*\*/Advanced Tamil\*(OR)Non-  major elective -II (General Awareness\*) | 2 | 3 | 50 | 50 | 100 | 2 |
|  | **Total** | **30** |  | **310** | **340** | **650** | **24** |
|  | **Semester V** | | | | | | |
| III | Core Paper VII-Statistical Inference  -I | 5 | 3 | 50 | 50 | 100 | 4 |
| III | Core Paper VIII-Basic Sampling  Theory | 5 | 3 | 50 | 50 | 100 | 4 |
| III | Core Paper IX –Design of  Experiments | 5 | 3 | 50 | 50 | 100 | 4 |
| III | Core Practical- III(Using SPSS**)** | 2 | 3 | - | - | - | - |
| III | Core Paper X -Numerical  Mathematics | 5 | 3 | 50 | 50 | 100 | 4 |
| III | ElectiveI | 5 | 3 | 30 | 45 | 75 | 3 |
| IV | SkillbasedSubject3:  Mathematical Economics | 3 | 3 | 50 | 50 | 100 | 4 |
|  | **Naan Mudhalvan**:  Computational Intelligence for Employability | 2 | 2 | 25 | 75 | 100 | 2 |
|  | **Total** | **32** |  | **305** | **370** | **675** | **25** |
|  | **Semester VI** | | | | | | |
| III | Core Paper XI-Statistical Inference -  II | 5 | 3 | 50 | 50 | 100 | 4 |
| III | Core Paper XII-Statistical Quality  Control | 5 | 3 | 50 | 50 | 100 | 4 |
| III | Core Practical- III(Using SPSS**)** | 2 | 3 | 30 | 45 | 75 | 3 |

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| III | Elective II | 5 | 3 | 30 | 45 | 75 | 3 |
| III | Elective III | 5 | 3 | 30 | 45 | 75 | 3 |
| III | Core Practical -IV(Using Scientific  Calculator) | 4 | 3 | 50 | 50 | 100 | 4 |
| IV | **Naan Mudhalvan**:  Data Analytics with Advanced Tools: Project Based learning | 4 | 3 | 25 | 25 | 50 | 2 |
| V | Extension Activities\*\* | - | - | 50 | - | 50 | 2 |
|  | **Total** | **30** |  | **315** | **310** | **625** | **25** |
|  | **Grand Total** | **184** |  | **1690** | **2010** | **3700** | **144** |

\*No Continuous Internal Assessment(CIA).Only University Examinations.

\*\* No University Examinations. Only Continuous Internal Assessment (CIA).@Excluding the marks of Part IV

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| **List of Elective papers(Colleges can choose any one of the paperas**  **electives)** | | |
| Elective I | A | Psychological Statistics |
| B | Actuarial Statistics III |
| C | Big Data Analytics |
| Elective II | A | Elements of Econometrics |
| B | Indian Official Statistics |
| C | Genetical Statistics |
| Elective III | A | Operations Research |
| B |  |
| C | Quantitative Techniques for Managerial Decisions |