**BHARATHIARUNIVERSITY:COIMBATORE641 046**

**B.Sc.Chemistry–RevisedSchemeofExaminations(CBCSPattern)**

*(Forthe students admittedduring the academicyear 2022– 23onwards)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Part** | **TitleoftheCourse** | **Hours/ Week** | **Examination** | **Credits** |
| **Duration in Hours** | **MaximumMarks** |
| **CIA** | **CEE** | **Total** |
|  | **SemesterI** |
| I | Language- I | 6 | 3 | 50 | 50 | 100 | 4 |
| II | English-I | 6 | 3 | 50 | 50 | 100 | 4 |
| III | CorePaperI–General Chemistry-I | 7 | 3 | 50 | 50 | 100 | 4 |
| III | CorePractical I (InorganicQualitative Analysis) | 3 | 3 | - | - | - | - |
| III | AlliedA:PaperI# (or) | 6 | 3 | 50 | 50 | 100 | 4 |
| AlliedA:PaperI@ | 4 | 3 | 30 | 45 | 75 | 3 |
| III | AlliedA:Practical@ | 2 | - | - | - | - | - |
| IV | EnvironmentalStudies\* | 2 | 3 | - | 50 | 50 | 2 |
|  | **Total** | **30** |  | **180** | **245** | **425** | **17** |
|  | **SemesterII** |
| I | Language– II | 6 | 3 | 50 | 50 | 100 | 4 |
| II | English–II**Naan Mudhalvan Skill Course- Language Proficiency for Employability** http://kb.naanmudhalvan.in/Special:Filepath/ Cambridge\_Course\_Details.pdf | **4****2** | **3****-** | **25****25** | **25****25** | **50\*****50\*\*** | **2****2** |
| III | CorePaperII–GeneralChemistry-II | 7 | 3 | 50 | 50 | 100 | 4 |
| III | CorePractical I (InorganicQualitative Analysis) | 3 | 3 | 50 | 50 | 100 | 4 |
| III | AlliedA:PaperII# (or) | 6 | 3 | 50 | 50 | 100 | 4 |
| AlliedA:PaperII@ | 4 | 3 | 30 | 45 | 75 | 3 |
| III | AlliedA:Practical@ | 2 | 3 | 25 | 25 | 50 | 2 |
| IV | ValueEducation –HumanRights\* | 2 | 3 | - | 50 | 50 | 2 |
|  | **Total** | **30** |  | **255** | **320** | **575** | **23** |
|  | **SemesterIII** |
| I | Language–III | 6 | 3 | 50 | 50 | 100 | 4 |
| II | English–III | 6 | 3 | 50 | 50 | 100 | 4 |
| III | CorePaperIII– InorganicChemistry-I | 3 | 3 | 50 | 50 | 100 | 4 |
| III | CorePaperIV–PhysicalChemistry-I | 3 | 3 | 50 | 50 | 100 | 4 |
| III | AlliedB: Paper I#(or) | 6 | 3 | 50 | 50 | 100 | 4 |
| AlliedB: Paper I@ | 4 | 3 | 30 | 45 | 75 | 3 |
| III | CorePractical II (Volumetricand OrganicAnalysis) | **3** | - | - | - | - | - |
| III | AlliedB: Practical@ | 2 | - | - | - | - | - |
| IV | SkillbasedSubject1:Chemistryof NaturalandSyntheticFibers | **2** | **3** | **30** | **45** | **75** | **3** |
| IV | Tamil\*\* / Advanced Tamil\*(OR) Non-majorelective-I(YogaforHuman Excellence)\*/Women’sRights\* | **1** | 3 | - | 50 | 50 | 2 |
|  | **Total** | **30** |  | **260** | **340** | **600** | **24** |

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|  | **SemesterIV** |
| I | Language–IV | 6 | 3 | 50 | 50 | 100 | 4 |
| II | English–IV | 6 | 3 | 50 | 50 | 100 | 4 |
| III | CorePaperV–OrganicChemistry-I | 4 | 3 | 50 | 50 | 100 | 4 |
| III | CorePractical II (Volumetricand OrganicAnalysis) | 3 | 6 | **30** | **45** | **75** | **3** |
| III | AlliedB:PaperII# | 6 | 3 | 50 | 50 | 100 | 4 |
| AlliedB:Paper II@ | 4 | 3 | 30 | 45 | 75 | 3 |
| III | AlliedB: Practical@ | 2 | 3 | 25 | 25 | 50 | 2 |
| IV | SkillbasedSubject2:Technologyof DyeingofNaturalFibers | **2** | **3** | **25** | **25** | **50** | **2** |
| IV | Tamil\*\*/AdvancedTamil\*(OR)Non-majorelective-II(GeneralAwareness\*) | 1 | 3 | - | 50 | 50 | 2 |
|  | **Naan Mudhalvan Skill Course** -Digital Skills for Employability – Office Fundamentalshttp://kb.naanmudhalvan.in/Special:File path/Microsoft\_Course\_Details.xlsx | **2** | **-****-** | **25** | **25** | ***50\*\**** | **2** |
|  | **Total** | **30** |  | **285** | **365** | **650** | **26** |
|  | **SemesterV** |
| III | CorePaperVI(InorganicChemistryII) | 5 | 3 | 50 | 50 | 100 | 4 |
| III | CorePaperVII(Spectroscopy) | 5 | 3 | 50 | 50 | 100 | 4 |
| III | CorePaperVIII(Electrochemistry) | 5 | 3 | 50 | 50 | 100 | 4 |
| III | CorePaperIX(AnalyticalChemistry) | 4 | 3 | 50 | 50 | 100 | 4 |
| III | CorePractical III (GravimetricAnd Physical) | 5 | - | - | - | - | - |
| III | ElectiveI | 4 | 3 | 50 | 50 | 100 | 4 |
| IV | SkillbasedSubject3:Water&Effluent Treatment AndPollutionControl | 2 | 3 | 30 | 45 | 75 | 3 |
|  | **Total** | **30** |  | **280** | **295** | **575** | **23** |
|  | **SemesterVI** |
| III | CorePaperX(OrganicChemistryII) | 6 | 3 | 50 | 50 | 100 | 4 |
| III | CorePaperXI(PhysicalChemistryII) | 6 | 3 | 50 | 50 | 100 | 4 |
| III | CorePractical III (GravimetricAnd Physical) | 5 | 7 | 50 | 50 | 100 | 4 |
| III | ElectiveII | 4 | 3 | 30 | 45 | 75 | 3 |
| III | ElectiveIII | 4 | 3 | 30 | 45 | 75 | 3 |
| III | CorePracticalforElectiveSubjects | 3 | 3 | 50 | 50 | 100 |  4 |
| IV | SkillBasedSubject4: (TextileChemistryPractical) | 2 | 3 | 30 | 45 | 75 | 3 |
|  | **Naan Mudhalvan Skill Course-****Employability Readiness – IBM Skills build** | **-** | **-** | **-** | **-** | - | **-** |
|  | Extension Activities@ | **-** | **-** | 50 | - | 50 | 2 |
|  | **Total** | **30** |  | **340** | **335** | **675** | **27** |
|  | **GrandTotal** | **180** |  | **1600** | **1900** | **3500** | **140** |



***Note***

***#*** Forsubjectswithoutpractical.

***@***Forsubjectswithpractical.

\*NoContinuousInternalAssessment(CIA).OnlyUniversityExaminations.

\*\*NoUniversityExaminations.OnlyContinuousInternalAssessment(CIA).

**\* English II- University semester examination will be conducted for 50 marks (As per the 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 25 marks will be offered by respective course teacher.**

**Students are encouraged to register through the website** [**www.naanmudhalvan.tn.gov.in**](http://www.naanmudhalvan.tn.gov.in/) **and takeup thecourses to enhancetheirskills .**

 **Semester IV Skill based Subject 2: Technology of Dyeing of Natural Fibers University**

 **examination will be conducted for 45 marks (As per the existing pattern of examination )**

 **and it will be converted for 25 marks**

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| --- |
| **AlliedSubjects(Collegescanchooseanytwosubjects)** |
| **1.Mathematics, 2.Physics,3.Botany,4.Zoology,5.Biochemistry** |
| **List of Elective papers** |
| **(Colleges can choose any one of the paper as electives)** |
| \*\*\***These elective papers are included in the curriculum as a part of industry4.O.** |
| **Elective–I** | **A** | PolymerChemistry |
| **B** | AgroIndustrialChemistry\*\*\* |
| **C** | PharmaceuticalChemistry\*\*\* |
| **Elective–II** | **A** | LeatherChemistry |
| **B** | ChemistryofPlant BasedProducts |
| **C** | DyeChemistry |
| **Elective–III** | **A** | AnalyticalChemistryIILabTechniques\*\*\* |
| **B** | EnvironmentalChemistry |
| **C** | TextileChemistry\*\*\* |