Table-I: Certificate Course (Chemistry)-Exit after First Academic Year

(One Academic year: First & Second Semester and Summer/Vocational Course)

| Semester | Core-I | Core-II | Core-III | Multidiscipli nary | AEC | SEC | VAC | Community Engagemen ts & Services/Fi eld Work/Inter nship | Total Minimum Credit |
|----------|---|--|-------------------------------------|----------------------------|---|-----------------|--|---|----------------------------|
| I | Paper-I Atomic Structure, Periodicity of Elements and Chemical Bonding | Paper-I Atomic Structure, Periodicity of Elements and Chemical Bonding | | Biochemistry | Odia/Hindi /Sanskrit/U rdu/English. | | Environmental Studies and Disaster Management | • | 22 |
| | Paper-II Fundamental Organic Chemistry | | | | | | | | |
| II | Paper-III States of matter, and Ionic equilibrium Paper-IV Chemical thermos dynamics, equilibrium, and Colligative property | | Fundamental Organic Chemistry | Environmental Chemistry | English | Vermicomposting | | | 22 |
| Total | 4X4=16 | 1x4=4 | 1x4=4 | 2x3=6 | 2x4=8 | 1x3=3 | 1x3=3 | | 44 |

Vocational course (4 credits): Environmental Monitoring/Floriculture/Cultivation of Medicinal, Aromatic, and Spice plant crops