

**Programme: Master of Science Chemistry (MSCCH20)**

**Year / Semester: IInd semester**

**Paper Code: MCH 509**

**Paper Name: Spectroscopy/Computers/Biology & Mathematics -II**

**Syllabus**

**Block – 3: Spectroscopy – I**

Unit – 11 : Rotational Spectra

Unit – 12 : Vibrational Spectroscopy – 1 Unit

– 13 : Vibrational Spectroscopy – 2 Unit – 14

: Vibrational Spectroscopy – 3 Unit – 15 :

Raman Spectroscopy

Unit – 16 : Electron Spectroscopy

**Block – 3 Spectroscopy – II**

Unit – 17 : H NMR Spectroscopy – 1 Unit

– 18 : H NMR Spectroscopy – 2

Unit – 19 : NMR of Paramagnetic Compounds Unit

– 20 : Mass Spectrometry – 1

Unit – 21 : Mass Spectrometry – 2

**Block – 4 Computers**

Unit – 22 : Introduction to Compounds Unit

– 23 : Basic Language

Unit – 24 : C Language

Unit – 25 : Chemistry Applications using Basic Programme