B.Sc. Materials Science
Detailed Course Structure and Syllabus
First Year of B.Sc. Programme
Semester-I

Sr. No.	Course Type	Credits	Course Code	Course Title	Continuous Internal Evaluation	Term End Examination	Total Marks
1	Major-1	4 (3T+1P)	US01MAMTS01	Atomic Structure and Related Properties of Materials	50	50	100
2	Major-2	4 (3T+1P)	US01MAMTS02	Concepts of Physics – 1	50	50	100
3	Minor-1	4 (3T+1P)	US01MIMTS01	Fundamentals of Chemistry- 1	50	50	100
4	Multidisciplinary-1	4 (3T+1P)	US01MDMTS01	Basic Computing and Productivity Tools	50	50	100
5	Ability Enhancement-1	2(T)	US01AEMTS01	Functional English-1	25	25	50
6	Skill Enhancement-1	2 (P)	US01SEMTS01	Basic Experiments of Materials	25	25	50
7	Indian Knowledge System	2 (T)	US01IKMTS01	Foundations of Indian Knowledge Systems	25	25	50

B.Sc. Materials Science
Detailed Course Structure and Syllabus
First Year of B.Sc. Programme
Semester-II

Sr. No.	Course Type	Credits	Course Code	Course Title	Continuous Internal Evaluation	Term End Examination	Total Marks
1	Major-3	4 (3T+1P)	US02MAMTS01	Understanding of Materials	50	50	100
2	Major-4	4 (3T+1P)	US02MAMTS02	Physics Paper-2	50	50	100
3	Minor-3	4 (3T+1P)	US02MIMTS01	Chemistry Paper-2	50	50	100
4	Multidisciplinary-2	4 (4T)	US02MDMTS01	Multidisciplinary-2	50	50	100
5	Ability Enhancement-2	2 (P)	US02AEMTS01	English-2	25	25	50
6	Skill Enhancement-2	2 (P)	US02SEMTS01	Device for Materials Testing	25	25	50
7	Indian Knowledge System/Value Added Courses-2	2 (T)	US02VAMTS01	Entrepreneurship Fundamentals	25	25	50

Exit Option 1: Student willing to exit at this level shall be awarded UG Certificate in Materials Science upon earning 48 credits including mandatory 4 credits of Summer Internship in Materials Science specific NSQF defined course