



Integrated Bachelors & Masters Programmes  
B.Sc. Applied Chemistry, Semester I

Course Code	IS01CMTS52	Title of the Course	Materials Science Practicals-I
Total Credits of the Course	1	Hours per Week	2 hrs

Course Objectives:	<ol style="list-style-type: none"><li>1. To learn about the basic properties of various types of materials.</li><li>2. To have exposure to materials behaviour under different conditions.</li><li>3. To get knowledge on experimental methods of materials.</li></ol>
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Course Content		
Sr. No.	Description/Aim	Weightage* (%)
1.	Determination of bulk and packing density of liquid and solid samples	100
2.	To determine temporary and permanent hardness of water	
3.	Identification, dimensional measurement and properties of different materials	
4.	To study the thermal conduction behaviour of materials	

Teaching-Learning Methodology	Laboratory practicals with demonstration of the procedure related to each practicals.
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%
3.	University Examination	70%

Course Outcomes: Having completed this course, the learner will be able to	
1.	Follow laboratory ethics, independent working approach in the laboratory with safety norms





**SARDAR PATEL UNIVERSITY**  
**Vallabh Vidyanagar, Gujarat**  
**(Reaccredited with 'A' Grade by NAAC (CGPA 3.25))**  
**Syllabus with effect from the Academic Year 2022-2023**

2.	Get acquainted with basic laboratory methods to characterize various materials
3.	Learn properties of materials under experimental conditions

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