



SARDAR PATEL UNIVERSITY
Vallbah Vidyanagar, Gujarat
 (Reaccredited with 'A' Grade by NAAC (CGPA 3.25))
 Syllabus with effect from the Academic Year 2021-2022

PROGRAMME STRUCTURE
Master of Science in Material Science
MSc (Material Science) Semester: II

Programme Outcome (PO) - For MSc Material Science Programme	Materials Science is an interdisciplinary subject of great importance. The syllabi in this program cover various aspects of physics, chemistry and engineering relevant to different types of materials. As the rapid progress is being made in the development of sophisticated tailor made materials of desired properties and specifications to suit specific needs, this program will help the students to be technologically sound with the scientific knowledge of chemical and physical sciences.
Programme Specific Outcome (PSO) - For MSc Material Science Semester - II	<p>This program will help the students</p> <ul style="list-style-type: none"> ➤ to strengthen their knowledge on the fundamental aspects of materials science ➤ to acquire knowledge on the properties of different types of materials ➤ to get acquainted with different experimental and technical methods used for the characterization of materials ➤ the area of applications where different tailor made materials can be used.

To Pass	(1).... (2)....
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Course Type	Course Code	Name Of Course	Theory/ Practical	Credit	Exam Duration in hrs	Component of Marks		
						Internal	External	Total
						Total	Total	Total
Core Courses	PS02CMTS51	Semiconducting and Superconducting Materials	T	4	3	30	70	100
	PS02CMTS52	Spectroscopy	T	4	3	30	70	100





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	PS02CMTS53	Microstructure Control and Metallic Processing	T	4	3	30	70	100
	PS02CMTS54	Practicals I	P	4	3	30	70	100
	PS02CMTS55	Practicals II	P	4	3	30	70	100
Elective Courses (Any One)	PS02EMTS51	Defect Structures and properties of Materials	T	4	3	30	70	100
	PS02EMTS52	Solar Energy	T	4	3	30	70	100
		Comprehensive Viva	-	1	-	-	50	50

