



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

Programme Outcome (PO) - For MSc Nano Science Programme	Nano Science & Nano Technology 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 and nano materials. As the rapid progress is being made in the development of sophisticated tailor made nanomaterials of desired properties and specifications to suit specific needs, this program will help the students to be technologically sound in the area of nanoscience and nanotechnology with the scientific knowledge of chemical and physical sciences.
Programme Specific Outcome (PSO) - For MSc Nano Science Semester - II	This program will help the students <ul style="list-style-type: none"><li>➤ to strengthen their knowledge on the fundamental aspects of materials science and nanoscience</li><li>➤ to acquire knowledge on the properties of different types of nanomaterials</li><li>➤ to get acquainted with different experimental and technical methods used for the characterization of nanomaterials</li><li>➤ the area of applications where different tailor made nanomaterials can be used.</li></ul>
To Pass	(1).... (2)....





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

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	PS02CNST51	Electrical Properties of Nano materials	T	4	3	30	70	100
	PS02CNST52	Spectroscopy	T	4	3	30	70	100
	PS02CNST53	Nanostructures and Metallic Materials	T	4	3	30	70	100
	PS02CNST54	Practicals I	P	4	3	30	70	100
	PS02CNST55	Practicals II	P	4	3	30	70	100
Elective Courses (Any One)	PS02ENST51	Selected topics in Nano-Materials	T	4	3	30	70	100
	PS02ENST52	Engineering Polymers and Nanocomposites	T	4	3	30	70	100
	PS02CNST56	Comprehensive Viva	-	1	-	-	50	50

