

SARDAR PATEL UNIVERSITY**M. Sc. Programme Structure: Nano Science. & Nano Technology****(Effect from June, 2022-23)****Semester:-IV**

Course Type	Course Code (10 Digit)	Name of Course	View	Theory (T) / Practical (P)	Credit	Contact Hrs/week	Exam Duration in hrs	Marks		
								Internal	External	Total
								Total/Passing	Total/Passing	Total/Passing
	PS04CNST51	PROJECT WORK	Skill based, Entrepreneurship	P	24	42	3	240/96	360/144	600/240
	PS04CNST52	Comprehensive Viva			1				50	650



Master of Science – Nano Science & Nano Technology
(M.Sc.) (Nano Science & Nano Technology) Semester –IV

Course Code	PS04CNST51	Title of the Course	Project Work
Total Credits of the Course	24	Hours per Week	42 hrs

Course Objectives:	1. To develop knowledge and skill through lab experience 2. To inculcate experiential learning 3. To educate with advanced synthesis and characterization techniques for materials
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Course Content		
Unit	Description	Weightage* (%)
1.	The students are assigned an individual/group research project. Under the project, the students have to carry out thorough literature survey using library, internet and available literature in the department. They have to carry out various experiments including testing and characterization using various sophisticated instruments. These findings are compiled in the form of a dissertation to be evaluated by the External examiner for the partial fulfillment of M.Sc. degree.	100%

Teaching-Learning Methodology	Demonstration/Group discussion/ Panel/Hands on training
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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

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|----|--|
| 1. | Do experimental study on materials synthesis and characterization |
| 2. | Learn data interpretation, instrumental techniques and Hands-on training/demonstration |
| 3. | Improvetheir skillfor analysis of different materials |

Suggested References:

Sr. No.	References
1.	Students have to carry out thorough literature survey using library, internet and available literature in the Department.

On-line resources to be used if available as reference material

On-line Resources

Students are using INFLIBNET facility in the Department for On line referencing.





Master of Science – Nano Science & Nano Technology
(M.Sc.) (Nano Science & Nano Technology) Semester –IV

Course Code	PS04CNST52	Title of the Course	Comprehensive Viva
Total Credits of the Course	1	Hours per Week	1 hr

Course Objectives:	1.
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Course Content		
Unit	Description	Weightage* (%)
1.	Students have to appear for viva voce examination	100%

Teaching-Learning Methodology	
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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.	
2.	





Suggested References:

Sr. No.	References
1.	
2.	
3.	
4.	

On-line resources to be used if available as reference material

On-line Resources

