RAYAT SHIKSHAN SANSTHA'S MAHATMA PHULE ARTS, SCIENCE AND COMMERCE COLLEGE, PANVEL, DIST-RAIGAD DEPARTMENT OF CHEMISTRY

LIST OF NEW PRACTICLES TO BE CONDUCTED UNDER DBT STAR COLLEGE SCHEME

CLASS: FYBSC

Academic Year (2022-23) 1. Rapid	Academic Year (2023-24) 1. Rapid Detection	Academic Year (2024-25) 1. Rapid Detection
Detection of	of Chemical	of Chemical
Chemical	Adulterants of	Adulterants of
Adulterants of Milk	Milk	Milk
2. Physico- chemical study of water sample of nearby water bodies	2. Physico- chemical study of water sample of nearby water bodies	2. Physico- chemical study of water sample of nearby water bodies
-	3. Preparation of buffer of desired pH and molarity and measurement of pH.	3. Preparation of buffer of desired pH and molarity and measurement of pH.
-	-	4. Measurement of pKa of amino acids.

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LIST OF NEW PRACTICLES TO BE CONDUCTED UNDER DBT STAR COLLEGE SCHEME

CLASS: SYBSC

	T	1
Academic Year	Academic Year	Academic Year
(2022-23)	(2023-24)	(2024-25)
1. Green synthesis	1. Green synthesis	1. Green
of Diversely	of Diversely	synthesis of
Functionalized	Functionalized	Diversely
oxindole	oxindole	Functionalized
		oxindole
Analysis of	2. Analysis of	2. Analysis of
micronutrients of	micronutrients of	micronutrients of
soil samples	soil samples	soil samples
Preparation of	3. Preparation of	3. Preparation of
Sanitizer, Soap,	Sanitizer, Soap,	Sanitizer, Soap,
Handwash and	Handwash and	Handwash and
Perfumes.	Perfumes.	Perfumes.
	4. Estimation of	4. Estimation of
-	sugar by Folin-wu	sugar by Folin-wu
	method.	method.
-	-	5. pH metry: Acid base titration curves
		Cui ves

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LIST OF NEW PRACTICLES TO BE CONDUCTED UNDER DBT STAR COLLEGE SCHEME

CLASS: TYBSC

CLASS. I I BSC			
Academic Year	Academic Year	Academic Year	
(2022-23)	(2023-24)	(2024-25)	
1. Synthesis &	1. Synthesis &	1. Synthesis &	
characterization of	characterization of	characterization of	
ZnO nanomaterial	ZnO nanomaterial	ZnO nanomaterial	
2. Heavy metal	2. Heavy metal	2. Heavy metal	
analysis of industrial	analysis of industrial	analysis of industrial	
waste water Cr(VI)	waste water Cr(VI)	waste water Cr(VI)	
3. Synthesis of mixed	3. Synthesis of	3. Synthesis of	
ligand complex &	mixed ligand	mixed ligand	
determination of its	complex &	complex &	
Magnetic	determination of its	determination of its	
Susceptibility	Magnetic	Magnetic	
	Susceptibility	Susceptibility	
4. Extraction of	4. Extraction of	4. Extraction of	
Organic compounds	Organic compounds	Organic compounds	
from plants present	from plants present	from plants present	
in college campus	in college campus	in college campus	
5. Estimation of	5. Estimation of	5. Estimation of	
protein by Biuret	protein by Biuret	protein by Biuret	
method.	method.	method.	
	6. Estimation of	6. Estimation of	
-	sugar by DNSA	sugar by DNSA	
	method	method	
		7. Estimation of	
-	-	amino acid by	
		Ninhydrin method.	