

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

DEPARTMENT OF CHEMISTRY

DBT STAR COLLEGE SCHEME

**LIST OF PRACTICALS TO BE CONDUCTED UNDER DBT STAR
COLLEGE SCHEME**

CLASS: FYBSC

Academic Year (2024-25)

1. Rapid Detection of Chemical Adulterants of Milk
2. Physicochemical study of water sample of nearby water bodies
3. Preparation of buffer of desired pH and molarity and measurement of pH.
4. Measurement of Pka value of amino acids
5. Separation of amino acid mixture by paper chromatography

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**LIST OF NEW PRACTICALS TO BE CONDUCTED UNDER DBT
STAR COLLEGE SCHEME**

CLASS: SYBSC

Academic Year (2024-25)

1. Green synthesis of Diversely Functionalized oxindole
2. Analysis of micronutrients of soil samples
3. Preparation of Sanitizer, Soap, Handwash and Perfumes.
4. Estimation of sugar by Folin-wu method.
5. pH Metry: Acid base titration curves

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**LIST OF NEW PRACTICALS TO BE CONDUCTED UNDER DBT
STAR COLLEGE SCHEME**

CLASS: TYBSC

Academic Year (2024-25)

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