

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

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

**CLASS: FYBSC**

<b>Academic Year (2022-23)</b>	<b>Academic Year (2023-24)</b>	<b>Academic Year (2024-25)</b>
1. Detection of health hazardous adulterants from milk products.	1. Detection of health hazardous adulterants from milk products.	1. Detection of health hazardous adulterants from milk products.
2. Study of nutritional content of fishes available in local market.	2. Study of nutritional content of fishes available in local market.	2. Study of nutritional content of fishes available in local market.
-	3. Measurement of lung capacity.	3. Measurement of lung capacity.
-	-	4. Monitoring of sound pollution at public places in Panvel.

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

**CLASS: SYBSC**

<b>Academic Year (2022-23)</b>	<b>Academic Year (2023-24)</b>	<b>Academic Year (2024-25)</b>
1. Assessment of water quality parameters from water resources around Panvel.	1. Assessment of water quality parameters from water resources around Panvel.	1. Assessment of water quality parameters from water resources around Panvel.
2. Detection of abnormal constituents of urine.	2. Detection of abnormal constituents of urine.	2. Detection of abnormal constituents of urine.
3. Evaluation of nutrient contents of table eggs from different sources in the retail market.	3. Evaluation of nutrient contents of table eggs from different sources in the retail market.	3. Evaluation of nutrient contents of table eggs from different sources in the retail market.
-	4. Study of efficacy of different antacids.	4. Study of efficacy of different antacids.
-	-	5. Measurement of cell diameter as toxicological effect using Oculomotor.

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**LIST OF NEW PRACTICES TO BE CONDUCTED UNDER  
DBT STAR COLLEGE SCHEME  
CLASS: TYBSC**

<b>Academic Year (2022-23)</b>	<b>Academic Year (2023-24)</b>	<b>Academic Year (2024-25)</b>
1. Determination of blood sugar by GOD/POD methods.	1. Determination of blood sugar by GOD/POD methods.	1. Determination of blood sugar by GOD/POD methods.
2. Separation of plasma protein by Gel Electrophoresis	2. Separation of plasma protein by Gel Electrophoresis	2. Separation of plasma protein by Gel Electrophoresis
3. Enumeration of total count of R.B.C, W.B.C. & Platelets.	3. Enumeration of total count of R.B.C, W.B.C. & Platelets.	3. Enumeration of total count of R.B.C, W.B.C. & Platelets.
4. Colorimetric estimation of proteins, triglycerides & sugars.	4. Colorimetric estimation of proteins, triglycerides & sugars.	4. Colorimetric estimation of proteins, triglycerides & sugars.
5. Extraction and detection of DNA & RNA from various samples.	5. Extraction and detection of DNA & RNA from various samples.	5. Extraction and detection of DNA & RNA from various samples.
-	6. Detection of physico-chemical & microbiological quality of potable water.	6. Detection of physico-chemical & microbiological quality of potable water.
-	-	7. Study of bird fauna from wetland of Navi Mumbai.