



Hindusthan College of Arts & Science (Autonomous)
DBT STAR College Scheme



Practical Introduced – 2022 to 2023

| S.NO | Practical Introduced | Beneficiaries |
|-------------|---|----------------------|
| 1. | Determination of maximum absorption (λ max) spectra of dyes | I UG |
| 2. | Pigment production from fungi (<i>Trichoderma / Aspergillus/Penicillium</i>) | |
| 3. | Isolation of xylanase producing bacteria | |
| 4. | Chemical / Microbiological methods for the determination of Penicillin, Streptomycin & Griesofulvin | |
| 5. | Prediction of binding site of macromolecules using MEDsuMo software | |
| 6. | Study of important diseases of plants by cutting sections of infected plant material - <i>Albugo Puccinia</i> . | |
| 7. | Study of important diseases of plants by cutting sections of infected plant material- <i>Ustilago, Fusarium, Colletotrichum</i> | |
| 8. | Biostatics - Curve fitting | |
| 9. | Biostatics - Confidence Interval | |
| 10. | Use ORF finder of NCBI (Expasy) to predict all possible ORF in a DNA sequence | III UG |
| 11. | Use MOTIF search to view introns and exons | |
| 12. | Use PROTPARAM tool for the detection of molecular weight and the amino acid composition of a protein sequence | |
| 13. | Preparation of Yogurt / Curd / Paneer/ Cheese | |
| 14. | Preparation of Sauerkraut | |

| | | |
|-----|---|--|
| 15. | Study of components and design of a BSL-III laboratory | |
| 16. | Filing applications for approval from biosafety committee | |
| 17. | Filing primary applications for patents | |
| 18. | Study of steps of a patenting process | |