CBCS Course Curriculum (Effective from Session 2021-22) [Bachelor of Science (B.Sc. Forensic Science)]

B.Sc. Forensic Science: Semester-IV FST 405: Zoology- IV Teaching Scheme Lectures: 3 hrs/Week Tutorials: 1 hr/Week Examination Scheme Class Test -12 Marks Teachers Assessment - 6 Marks Credits: 4 Attendance - 12 Marks Course outcomes: End Semester Exam - 70 marks

- `he student at the completion of the course will be able to:

 - Understand the principles of genetic engineering, how genes can be cloned in bacteria and the various Know the applications of biotechnology in various fields like agriculture, industry and human health. To have an in depth understanding about Immune System & its mechanisms.
 - Get introduced to DNA testing and utility of genetic engineering in forensic sciences.
 - Get introduced to computers and use of bioinformatics tools.
 - Enable students to get employment in pathology/Hospital.
 - Take up research in biological sciences.
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Onit 1 - Principles of Gene Man
Recombinant DNA T
• Selection and identify
• Restriction E
• Geneter DNA modifying enzymes Classic
Unit II dent transfer techniques, Gene therapy
Omt II - Applications of Genetic Engineering
Single cell proteins
Biosensors, Biochins
• Crop and livestock immediate the second of Biolechnology
• Development of DNA
Unit III - DNA Diagnosti
Genetic and to at
Generic analysis of human diseases, detection of known and wel
Concept of pharmacogenomics and pharmacogenetics
Unit IV – Immune System and its Components
Historical perspective of Immunology Innets and the interview of the
system
• Structure and functions of different 1
• Humoral immunity and all
HI A complementation in the mediated immunity
Unit V Bis det it it
Unit v – Biostatistics Dean
 Calculations of mean, median, mode, variance, standard deviation Faculty of Science
• Concepts of coefficient of variation Skewness Kurtasia
• Elementary idea of probability and application
• Data summarizing: frequences list it sit
• Tests of significant fistogram in the stribution, graphical presentation—bar, pie diagram instogram
rests of significance: one and two sample tests, t-test and Chisquare test
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