

| Subject Offered Sem-V:- E Sem-VI:- F | Course Outcome |
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| DSC 1355E Basics in Genetic Engineering | At the end of this course students will be able to: CO 1. Understand the concept of cloning CO2. Demonstrate the techniques of DNA fingerprinting CO 3. Perceive knowledge about sequencing technology. CO 4. illustrate the importance of probe designing |
| DSC 1356E Industrial Biotechnology | At the end of this course students will be able to: CO1. Construct the design required to set up industrial fermentation. CO2. Draw a contrast between industrial & pilot fermentation CO 3. Discover various ways of media formulation for industrial scale. CO 4. Predict & illustrate the nature of industrial processes. |
| DSC 1357E Applications of biotechnology in Agriculture | At the end of this course students will be able to: CO 1. Outline the importance of Hybridization & mutation in crop improvement. CO2. Explain the techniques of artificial seed germination. CO 3. Discuss the strategies to develop transgenic plants CO 4. formulate biofertilizer. |
| DSC 1358E Developmental Biology (Animal & Plant) | At the end of this course students will be able to: CO 1. Learn the concept of apomixes & polyembryony CO2. Understand the mechanism of self incompatibility. CO 3. Classify different characters & biological functions of embryo development. CO 4. Elaborate the mechanism of regeneration. |
| DSC 1355F Advances in Genetic Engineering | At the end of this course students will be able to: CO 1. Reflect the importance of chemical synthesis of DNA. CO2. Differentiate various types of PCR & their applications. CO 3. Appreciate the importance of screening. CO 4. study impact of GM foods on human health. |
| DSC 1356F Food & Microbial Biotechnology | At the end of this course students will be able to: CO 1. Choose appropriate fermentation technology. CO2. Compare classical & Modern fermentation techniques. CO 3. Outline the importance of preservation. CO 4. study characteristics of food supply. |
| DSC 1357F Applications of biotechnology in Health | At the end of this course students will be able to: CO 1. Appreciate the exigency of stem cell technology CO2. Classify different types of vaccines CO 3. Explain the mechanism of hybridoma technology. CO 4. Predict the nature of forensic medicines. |
| DSC 1358F Bioinformatics | At the end of this course students will be able to: CO 1. Outline the importance of Human Genome Project. CO2. List different types of structural database. CO 3. Explain the importance of phylogenetic analysis. CO 4. Construct drug molecules. |

B. G. K.
Head

