

**P R GOVT. COLLEGE (A), KAKINADA
DEPARTMENT OF BOTANY & MICROBIOLOGY**

ONE DAY WORKSHOP ON SMART LIFE SCIENCES



OBJECTIVES OF THE PROGRAMME:

1. To create awareness about latest developments in life sciences
2. To develop learning skills in biology students
3. To enhance practical skills through workshop.
4. To know about the recent techniques in life sciences.

TOPICS COVERED:

- ❖ Genetic engineering or Gene cloning

In this topic covered major points:

Steps in genetic engineering:

1. Isolation of target DNA
2. Selection of suitable molecular vector
3. Preparation of recombinant DNA
4. Selection of suitable host cell
5. Preparation of competent host cell
6. Transformation
7. Selection of transformed cells
8. Mass culture of transformed cells
9. Isolation of rDNAs
10. Gene libraries



OUTCOME OF THE PROGRAMME:

Students are learned about latest methodology in life Students studied about tissue culture techniques.
Students learned about the process of gene cloning.