

I YEAR – II SEMESTER
COURSE CODE: 36422
MOLECULAR BIOLOGY & rDNA TECHNOLOGY

Assignment topics

1. DNA and its replication
2. Structure of RNA - types of RNA - tRNA, mRNA & rRNA
3. Transcription process in Prokaryotes
4. RNA processing (post transcriptional modifications)
5. Cloning vectors
6. Gene Cloning
7. Blotting techniques
8. PCR- gene amplification, primer designing, optimization, variation in the PCR (RAPD, RFLP)
9. DNA sequencing
10. Plant genetic engineering