

**SARDAR PATEL UNIVERSITY**  
**Programme & Subject: M.Sc (Bioinformatics)**  
**Semester: IV**  
**Syllabus with effect from: December - 2011**

<b>Paper Code: PS04CMBI01</b>	<b>Total Credit: 25</b>
<b>Title Of Paper: Project</b>	

Unit	Description in Detail	Weightage (%)
	It is a full time project work of one semester duration. Students are supposed to get the project definition as well as analyze and understand the problem and/or understand the design and develop the system function(s). The work done in the documented form is to be submitted at the end of the project duration.	

**Basic Text & Reference Books & Additional Reading Material**

- Internet Web Sites
- Patrick Naughton and Herbert Schildt, The Complete Reference Java Third Edition, Tata McGraw Hill Pub., 1999
- Manuals of PC software.
- Tremblay J. & Sorenson P. G.: An Introduction to Data Structures with Applications, 2nd Edition, McGraw-Hill International Edition, 1987
- Elmasri And Navathe: Fundamentals of Database Systems, Addison-Wesley Publishing Co. 1994
- Ivan Bayross: Commercial Application Development Using ORACLE DEVELOPER 2000: BPB Publications 1997
- Douglas E Commer: The Internet, PHI, Second Edition, May 2000
- Xavier C: World Wide Web Design With HTML, Tata McGraw Hill Publication, 2000
- Donald Hearn & M. Pauline Baker: Computer Graphics. PHI, 1995
- Kernighan B. W. and Pike R.: The Unix Programming Environment, Prentice-Hall of India, 1994
- Pardi: XML in Action, Prentice Hall of India (Microsoft Press), 2000
- T A Brown: Gene cloning : an introduction, Chapman & Hall London
- Roger L Miesfeld: Applied molecular genetics, John Wiley & sons New York.
- Altschul, S F et al. 1990. Basic Local Alignment Search Tool (BLAST). Journal of Molecular Biology, 215: 403 – 410.
- Heiter, P., Boguski, M. 1997. Functional genomic: It's all how you read it. Science, 278: 601 – 602.
- Schatz B. 1997. Information retrieval in digital libraries: bringing search to the net. Science, 275: 327 – 334.
- Tatusov, R et al. 1997. A genomic perspective on protein families. Science, 278: 631 – 637.
- Fickett, J W. 1996. Finding genes by the computer: the state of the art. Trends Genet., 12: 316 – 320
- Gale M D and Devos K M. 1998. Plant comparative genomics after 10 years. Science, 282: 656 – 659
- E M F DeRobertis , Cell Biology
- Lehninger, Principles of Biochemistry
- Alberts et al, Molecular Biology of Cell
- Benjamin Lewin Genes VIII
- T A Brown, Gene Cloning
- Old and Primrose, Principles of Genetic Engineering.
- David Mount Bioinformatics: Sequence and Genome Analysis



- A Bexavanis and Francis Ouellette, Bioinformatics: A Practical guide to the analysis of Genes and Proteins.
- Jean-Michel Clavarie and Cedric Notredame, Bioinformatics: A Beginners Guide.
- Primrose, Genomics: Applications in Human Biology.
- Creighton, Proteomics: Structure and Molecular Properties.
- Harary F. : Graph Theory , Addison-Wesley Publ. Comp. 1972.

