

BCA: I- Semester

MATHEMATICS-I

Exam Code: 101

OBJECTIVE: To enable professional undergraduate students to understand the importance of mathematics in computer science.

QUESTIONS

1. Discuss Dependence of Vectors of a Matrix,
2. What is the Intermediate Value Theorem? Give Example.
3. What is differentiation? Write all formulas of differentiation.
4. Discuss Expansion of Functions (Maclaurin's & Taylor's) with the help of an example.
5. Derived relation between Gamma and Beta Functions.

PROCEDURE:

For completing the assignment students should refer to the books mentioned in syllabus and they can take help from internet. The assignment should be handwritten and properly filled. Students should make assignment in the following manner:

1. Cover page
2. Objectives
3. Index
4. Content
5. Conclusion
6. References
7. Softcopy AND Hardcopy
8. Give proper headings and subheadings
9. Explain every topic in points and using diagrams.
10. Put Examples

OUTCOME:

After doing this assignment, students will come to understand the importance of mathematics in computer science.

REFERENCE BOOKS:

- [R1] B.S. Grewal, "Elementary Engineering Mathematics", 34th Ed., 1998.
[R2] H.K. Dass, "Advanced Engineering Mathematics", S. Chand & Company, 9th Revised Edition, 2001.
[R3] Shanti Narayan, "Differential Calculas", S.Chand & Company, 1998