

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E. Semester: III

Mechanical(Machine Design)

Subject Name **Fracture Mechanics (Major Electives – 4)**

Sr.No	Course content
1.	Introduction to linear Elastic Fracture Mechanics.
2.	Elasto-Plastic fracture mechanics.
3	Dynamic and Computational fracture.
4.	fracture of composite materials.
5.	Damage mechanics and experimental analysis.

Reference Books:

1. D. Brock, Elementary Engineering Fracture Mechanics, Noordhoff
2. S T Rolfe, J M Barson, Fracture, and Fatigue Control in structurers, Prentice Hall
3. A P Parker, The Mechanics of Fracture and Fatigue, an Inroduction, E& F N Shon Ltd.