SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
Ramapuram Campus
FACULTY OF ENGINEERING AND TECHNOLOGY

Department of Mathematics

Odd Semester 2022 – 2023

Innovative Teaching Methods

21MAB101T – Calculus and Linear Algebra

Pedagogy 3 – Inquiry based learning

Inquiry-based learning (also **enquiry-based learning)** is a form of active learning that starts by posing questions, problems or scenarios.

1. What are increasing and decreasing functions in Calculus?

2. Give an example for (a) increasing (b) decreasing functions.

3. Explain Concavity, Convexity and Point of Inflexion of a curve.

4. What do you mean by maxima and minima of a function in Calculus?

5. How do you find the maxima and minima of a function graphically?

6. What are the conditions for maxima and minima?

7. What are turning points of the function?

8. What are saddle points?

9. How do you find local maxima and local minima of a function?

10. How do you find global maxima and local minima of a function?

11. Is every global maximum a local maximum?

12. Does every continuous function have a global maximum?

Staff incharge   **HOD / Mathematics**