PACHHUNGA UNIVERSITY COLLEGE

(A Constituent College of Mizoram University)

NAAC Accredited A+ & 2024 NIRF Ranking 35th

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F.No.100/1/2026/PUC(Acad)/Rem.Class/ 36

Dated Aizawl the 1st June 2026

NOTICE

Department of Mathematics, Pachhunga University College is giving Remedial Class on the paper 'CALCULUS'. Accordingly, **all fresh students (I semester) taking Mathematics as major and minor subject** are hereby informed to attend the **Remedial Class on Calculus paper** to be held from **1st July 2026 to 8th July 2026**.

The concerned students are informed to prioritize the remedial class as it will be the stepping stone in their future academic pursuits.

Routine for the Remedial Class is attached.

(Prof. H. LALTHANZARA)
Principal

Copy to:

1. Head, dept. of Mathematics, Pachhunga University College for information and necessary action.
2. Office Order Book.
3. File.

(Prof. H. LALTHANZARA)
Principal

Remedial class on Calculus

(1st July – 8th July, 2026)

ROUTINE

Date	10:30 AM-11:30 AM	11:30 AM - 12:45 PM	12:45 PM -01:00 PM	01:00 PM-02:30 PM
1.7.2026 (Wed)	Registration & Briefing	**Lecture-1** : Revision of HSS Level Calculus & Real number	LUNCH BREAK	**Lecture-2** : Functions
2.7.2026 (Thu)	**Lecture-3** : Limit	**Lecture-4**: Continuity		Practice session 1
03.7.2026 (Fri)	**Test 1**: on Lecture 1-4	**Lecture-5**: Differentiation		Practice session 2
6.7.2026 (Mon)	**Test 2**: on Lecture 5	**Lecture-6**: Rolle's theorem		Practice session 3
7.7.2026 (Tue)	**Test 3:** on Lecture 6	**Lecture-7**: Definite integrals		Practice session 4
8.7.2026 (Wed)	**Lecture-8** : Sequence	**Lecture-9**: Special lecture		Practice session 5

Detailed Syllabus

Lecture-1 : Revision of Higher Secondary Level Calculus & Real number :- This lecture will cover revision of basic HSS calculus(function, domain and range, Limit, continuity, differentiation, integration including formulae. Properties of real numbers which are directly used in Calculus (including interval, modulus and greatest integer function etc.).

Lecture-2 : Functions :- Concept of functions, graph of a function. (Introduction of free mathematical software Geogebra)

Lecture-3 : Limit:- Concept of limit, ϵ-δ definition. Evaluation. L' Hospital's Rule.

Lecture-4 : Continuity :- Concept of continuity, ϵ-δ definition, continuity at a point and continuity at closed interval. Properties of continuous functions defined on closed and bounded intervals. Intermediate value theorem.

Lecture-5 : Differentiation :- Concept of derivative. Left and right hand derivatives. Derivability in interval. Relation between continuity and differentiability. Sign of the derivative.

Lecture-6 : Rolle's theorems :- Statement, proof, geometrical interpretation and application. Introduction to Mean Value theorem.

Lecture-7 : Definite integrals:- Properties of definite integral and evaluation of integrals; Definite integral as limit of sum

Lecture-8 : Sequence :- Introduction to sequences of real numbers, Convergent sequence, Monotonic sequence, Infinite series

Lecture-9 : Special lecture :- This lecture topic will be decided based on the test score and response received from previous lecture.