Ambedkar University Delhi

Course Outline

Monsoon Semester (July-December 2017)

School:		Under	graduat	e Studies	
Programme with title:			BA (Honours)		
Semester to which offered: (I/ III/ V)			III semester		
Course Title:			Analys	sis II	
Credits:			4 Cred	lits	
Course Code (new):			SUS1N	/A505	
Course Code (old):			M08		
Type of Course:	Compulsory	yes		Cohort	BA (H) Mathematics
	Elective	yes		Cohort	BA (H) other than Mathematics
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For SUS only (Mark an X for as many as appropriate):

1. Foundation (Compulsory)

2. Foundation (Elective)

3. Discipline (Compulsory) X

4. Discipline (Elective) X

5. Elective

Course Coordinator and Team: Ramneek Khassa (CC)

Email of course coordinator: ramneek@aud.ac.in

Pre-requisites: M04

Aim: This course covers calculus more thoroughly and more theoretically, giving an introduction to important mathematical techniques and results that give a foundation for further work in analysis. It serves as an introduction to the rigorous proofs and formal mathematical arguments needed in all upper division math courses.

Brief description of modules/ Main modules:

- 1. The real numbers
- 2. Sequences and series
- 3. Limit and continuity
- 4. Differentiation

References:

- **1.** Bartle and Sherbert, Introduction To Real Analysis (Third Edition), John Wiley and Sons (Asia) Pte. Ltd., Singapore, 2002.
- 2. K. N. Ross, Elementary Analysis: Review of Calculus, Springer, 2007.

Tentative Assessment schedule with details of weightage:

S.No	Assessment	Date/period in which Assessment will take place	Weightage
1	Class test	End August	10%
2	Mid Semester Exam	End September/ early October	25%
3	Tut/ Home Assignments	Throughout the semester	15%
4	Viva	End October/ early November	15%
5	End Semester Exam	As per AUD Academic Calendar	35%