Semester Lecture Plan

Name of the college: Government college of Arts Science and Commerce ,Sankhali							
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Name of Faculty: Deepak Bandiwadekar			kar	Subject: Mathematics			
Paper code:	MAT 202 AN	NALYSIS		Program/Course: SYBSC		Division:	
Academic y	ear: 2024- 202	25		Semester:IV		Total Lectures: 60	
v	Course Objectives: to understand the concept of convergence & divergence of real sequence & infinite series. Also about the behaviour of sequence & series of functions						
Expected co	Expected course Outcome: students to understand the dependence of $\epsilon \& \delta$ in convergence continuity						
	Student learning outcome: The student will be able to get a practical idea about different techniques of finding the behaviour of sequences & series						
Month	Lect From:	tures To:	No. of lecture s allotted	Topic, Subtopic to be covered	Exercises/ assignment	ICT Tools	Reference books
December	9th	14th	04	Introduction Revision of Convergence of sequence ,uniqueness of limits		Chalk & duster	Elements of Real Analysis Shantinarayan & Dr. M.D.Raisinghani

, 	16th	21st	02			
				Algebra of sequences	Examples using $\epsilon \& \delta$	
January	2nd	4th	02			Real Analysis by Ajit kumar & Kumaresan
				Algebra of sequences		
	6th	11th	04			
				Sandwitch theorem, Monotonic sequences	Examples on monotonic sequences	
	13th	18th	04			
				Subsequences & Cauchy sequences	Examples on Cauchy sequnces using $\epsilon \& \delta$	
	20th	25th	04	Geometric series/harmonic series/Positive term series	Examples on comparison test first form	
January/ February	27th	1st	04	Positive term series-ratio test/root test/ integral test	Examples of behavior of series	

	3 rd	8th	04			
				Condensation test/ alternating series	Examples for practice	
	10 th	15th	04			
				rearrangemnts	Examples for practice	
	17 th	22nd	04			
				Sequence of functions	Examples for practice	
February/	24 th	1st	04			
March				Sequence of functions	Examples for practice	
	3rd	8th	04			
				Sequence of functions	Examples for practice	
	10 th	15th	04			
				Sequence of functions	Examples for practice	
	17th	22nd	04			
				Series of functions	Examples for practice	

	24th	29th	04			
				Series of functions	Examples for practice	
March/ April	31st	5th	04			
				Series of functions	Examples for practice	
	7 th	11th				
				Series of functions & revision		

* Assessment Rubrics

Component	Max Marks
ISA 1	10
ISA 2	10
ISA 3	10
Project	
Semester End	
Exam	80