



**HINDI MAHAVIDYALAYA**  
**(ARTS, COMMERCE, SCIENCE & PG CENTRE)**  
**(Autonomous & NAAC RE-ACCREDITED)**  
**PROFORMA FOR THE ACTIVITY REPORTS**  
**(Extension lecture/Guest lecture/Workshop)**

**Enclosures: Circular/Notice/Photographs/List of Students with signatures / Feedbacks (If any)**

Department	Department of Mathematics
<b>Guest Lecture</b>	Sequences of Real Numbers
Resource Person	Smt. K. Elizabeth Rani Department of Mathematics, GDC Chanchalguda, Hyderabad
Name (s) of the Teachers(s) involved	Smt. G.Srivani Smt. T. Ramadevi Sri. M.Sudhakar Prasanna Laxmi
No. of Students	55
Date	20-11-2023
Objectives	The student will able to : <ul style="list-style-type: none"><li>• understand the definition of a sequence,</li><li>• understand the domain and range of a sequence,</li><li>• classify a sequence as finite or infinite,</li><li>• understand how to classify a sequence as arithmetic, geometric, or neither,</li><li>• represent arithmetic and geometric sequences on a graph,</li><li>• Generate sequences from graphs or diagrams.</li></ul>
Report	<ol style="list-style-type: none"><li>1. She explained a definition of sequence with examples and general term of sequences.</li><li>2. She explained a sequences is convergent or not with examples.</li><li>3. She explained sequences is bounded are not with examples.</li><li>4. She explained a sequence is convergent or divergent with appropriate tests.</li></ol>
Outcomes	After this Guest lecture, students should be understanding to: <ol style="list-style-type: none"><li>1. To observe how the terms of a sequence are represented graphically.</li><li>2. To follow the reasoning to go so far as to deduce the general term of a sequence as the mathematical expression that relates the position that occupies a term in the sequence with its value.</li><li>3. Determine if an infinite sequence is bounded, monotonic or oscillating.</li><li>4. Determine the sequence whether it is convergent or divergent by using the appropriate tests.</li></ol>





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Arts and Commerce, Science and P.G. Centre  
Affiliated to Osmania University  
Nallakunta, Hyderabad – 500044.



**Department of Mathematics Presents Extension Lecture on**

**SEQUENCES OF REAL NUMBER**

**SPEAKER : K. Elizabeth Rani**  
Assistant Professor , Department of Mathematics ,  
Government Degree College, Chanchalguda, Hyderabad

**Date: 20-11-2023**

**Time: 11.00 am**

Dr. B. Sreedevi  
Principal  
Smt. Ashwini Sanpurkar  
Vice - Principal

**Contact Details**  
Mail: [info@hindimahavidyalaya.org](mailto:info@hindimahavidyalaya.org)  
Phone No : 040-2766330

Faculty of Department  
Smt.G.Sreevani  
Smt. T. Ramadevi  
Mr. M.Sudhakar  
Prasanna Laxmi