



# Art's Commerce and Science College, Onda

Tal:- Vikramgad, Dist:- Palghar

*Topology of Metric Spaces*

My Inspiration  
Shri. V.G. Patil  
Saheb  
Dr. V. S.  
Sonawne

Santosh Shivalal  
Dhamone

## Lecture No-13: Topology of Metric Spaces

Santosh Shivalal Dhamone

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# Contents

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Finite intersection of open set is open  
Arbitrary intersections of open set is not open  
Examples



# Lecture 13: Metric Spaces

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Sanjeevan Gramin Vidyakya & Samajik Sahayata Pratishthan's  
**Arts, Commerce & Science College, Onde**

Tal. Vikramgad, Dist. Palghar (MS) - 401605

(Affiliated to the University of Mumbai)

NAAC Accredited- Grade-C (CGPA-1.85)

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Year of Establishment: 2002



## Topology of Metric Spaces

### Unit I : Metric Spaces

### Lecture - 13



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