

Google Meet - Meet - udx-bhxq-mfb

Saurabh S (Presenting)

Sequence

Sequence in X is a function $f: \mathbb{N} \rightarrow X$.

$x_n := f(n)$

$(x_n)_{n=1}^{\infty}$ or $\{x_n\}_{n=1}^{\infty}$ or (x_n)

Medidar sir

7 others

Saurabh S

People

Add people

- 48 Shivani varne
- Kishore Salunkhe
- Medidar sir
- minakshee dhaygude
- Pallavi Pawar
- Rutuja Kore
- Saurabh S Meeting host

19:15 | udx-bhxq-mfb

7:15 PM 2/6/2025

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Saurabh S (Presenting)

Sequence of functions:

Sequence of functions D is a function $F: \mathbb{N} \rightarrow X$

Where $X := \{f \mid f: D \rightarrow \mathbb{K}\}$.

$f_n := F(n)$

Sequence of functions on D is denoted by

$\{f_n\}_{n=1}^{\infty}$ or $(f_n)_{n=1}^{\infty}$ or (f_n)

$D \subset \mathbb{R}$ or $D \subset \mathbb{C}$ and $\mathbb{K} = \mathbb{R}$ or $\mathbb{K} = \mathbb{C}$

9 others

Saurabh S

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Saurabh S (Presenting)

Let $\sum a_n$ be series of real numbers.
 $\sum a_n = a$ means $S_n \rightarrow a$

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ENG IN 7:15 PM 2/16/2025

Participants: Saurabh S, Rujuta Kulkarni, 6 others

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Saurabh S (Presenting)

Problem 4: Let $\left\{ \frac{x^{2n}}{1+x^{2n}} \right\}$ be sequence of functions on \mathbb{R} , then find limit function.
Solⁿ:

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ENG IN 7:04 PM 2/8/2025

Participants: Saurabh S, 8 others

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IN MEETING

Contributors 10

Name	Role	Audio	Video
Saurabh S (You)	Meeting host	On	On
Bajirao Patil		Off	Off
Kishore Salunkhe		Off	Off
Rachana Bobade		Off	Off
Rutuja Kore		Off	Off

sheetal dhane has joined

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Saurabh S (Presenting)

Theorem
 Assume $f_n \rightarrow f$ uniformly on S . If each f_n is cts at $c \in S$ then f is also cts at $c \in S$.

13 others

Saurabh S

People

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- Rutuja Kore
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- Sayali Pawar
- sheetal dhane
- Snehal Aadnaik
- sushil maske

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ENG IN 6:54 PM 2/9/2025

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Saurabh S (Presenting)

but $\lim_{x \rightarrow \infty} f_{n+k}(x) = f(x), x \in S$
 $\Rightarrow \lim_{n \rightarrow \infty} |f_{n+k}(x) - f_n(x)| \leq \frac{\epsilon}{2}, x \in S$
 $\Rightarrow |\lim_{k \rightarrow \infty} f_{n+k}(x) - f_n(x)| \leq \frac{\epsilon}{2}, x \in S$
 $\Rightarrow |f(x) - f_n(x)| \leq \frac{\epsilon}{2} < \epsilon, x \in S$
 Thus we proved that for $\epsilon > 0, \exists N \in \mathbb{N}$ s.t if $n \geq N$ then
 $|f_n(x) - f(x)| < \epsilon, x \in S$
 i.e. $f_n \rightarrow f$ uniformly on S .

Saurabh S

Rujuta Kulkarni

12 others

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ENG IN 8:03 PM 2/12/2025

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Saurabh S (Presenting)

Label Contact Session-6

$$\lim_{n \rightarrow \infty} \int_a^b f_n(x) dx = \int_a^b f(x) dx$$

Uniform

$f_n \xrightarrow{\text{Uniform}} f$

R.I. C

R.I. C

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ENG IN 8:24 PM 2/13/2025

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Saurabh S (Presenting)

Uniformly

$f_n \xrightarrow{\text{Uniformly}} f$

Cts Cts

R.I. R.I.

Diff. Diff. ?

$$\int_a^b f(x) dx = \lim_{n \rightarrow \infty} \int_a^b f_n(x) dx$$

$$\int_a^b \left(\lim_{n \rightarrow \infty} f_n(x) \right) dx = \lim_{n \rightarrow \infty} \int_a^b f_n(x) dx$$

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ENG IN 7:07 PM 2/14/2025

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Saurabh S (Presenting)

Problem: Prove that, if $\sum f_n$ is uniformly cgt on S then $f_n \rightarrow 0$ uniformly on S .

If $f_n \not\rightarrow 0$ uniformly then $\sum f_n$ is not uniformly cgt.

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People

- Dr Morkane
- Poonam Kanase
- Rujuta Kulkarni
- Saurabh S Meeting host
- Saurabh S Meeting host
- Snehal Aadnaik
- sushil maske

7:57 PM 2/15/2025

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Saurabh S (Presenting)

Label Contact Session-10

$$\begin{aligned}
 &= \lim_{n \rightarrow \infty} \left[\int_a^b f_1(x) dx + \int_a^b f_2(x) dx + \dots + \int_a^b f_n(x) dx \right] \\
 &= \lim_{n \rightarrow \infty} \left[\sum_{k=1}^n \int_a^b f_k(x) dx \right] \\
 &= \sum_{n=1}^{\infty} \int_a^b f_n(x) dx \\
 \therefore \int_a^b f(x) dx &= \sum_{n=1}^{\infty} \left(\int_a^b f_n(x) dx \right)
 \end{aligned}$$

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People

- Poonam Kanase
- Rachana Bobade
- Rutuja Kore
- Saurabh S Meeting host
- Saurabh S Meeting host
- Snehal Aadnaik
- sushil maske

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Saurabh S (Presenting)

Collection is denoted by $\mathcal{A}, \mathcal{B}, \dots$

Collection - Set of subsets of X

$\mathcal{P}(X) = \{$

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- Kishore Salunkhe
- minakshee dhaygude
- Rutuja Kore
- Saurabh S Meeting host

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Saurabh S (Presenting)

Topology

Lecture-2

Topological Spaces continued

Date: 20 February 2025

Time: 7:00 PM - 8:00 PM

Venue: Online <https://meet.google.com/udx-bhxq-mfb>

Mr. Saurabh Swami

Assistant Professor (CHB)

Department of Mathematics,

Miraj Mahavidyalaya, Miraj

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- Saurabh S (You) Meeting host
- Devaki Bhosale
- jaysing jadhav
- omkar patil
- Saurabh S Meeting host

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Saurabh S (Presenting)

topology

Problem: Let X be a set and

$$\mathcal{T}_f = \{A \subset X \mid A^c \text{ is finite or } A = X\}$$

Then prove that \mathcal{T}_f is topology on X .

$A \in \mathcal{T}_f \iff A^c \text{ finite or } A = X$

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7:10 PM 2/23/2025

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Saurabh S (Presenting)

$x \in B_x \subset B_1 \cap B_2$

Eg. Let $X = \mathbb{R}$. $\mathcal{D} = \{(a, b) \mid a, b \in \mathbb{R}\}$

Then \mathcal{D} is basis for topology on X .

To prove i)

For any $x \in \mathbb{R}$.

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7:22 PM 2/24/2025

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Saurabh S (Presenting)

$T = T'$

you have to prove $T \subset T'$ and $T' \subset T$.

Proof:

Saurabh S

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- minakshee dhaygude

7 others

7:18 PM 2/26/2025

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Saurabh S (Presenting)

$T = T'$

$T' \subset T$

$T \subset T'$

$T = T'$

Saurabh S

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People

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- bhagyashri raut
- Devaki Bhosale
- Dr Morkane
- Rutuja Kore
- Saurabh S Meeting host
- shital kadam
- sushil maske

5 others

8:43 PM 2/27/2025

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- Kishore Salunkhe
- omkar patil
- Rachana Bobade
- Ruiuta Kulkarni

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Saurabh S (Presenting)

If \mathcal{B} is basis for topology on X then

$$\mathcal{T} = \{U \subset X \mid \forall x \in U, \exists B_x \in \mathcal{B}, x \in B_x \subset U\}$$

is topology.

\mathcal{T} is called topology generated by \mathcal{B} .

let \mathcal{T} be topology on X generated.

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People

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- Saurabh S (You) Meeting host
- Kishore Salunkhe
- Rachana Bobade
- Rutuja Kore
- Saurabh S Meeting host
- sushil maske
- Varshadevi Morkane

Varshadevi Morkane

4 others

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ENG IN 7:16 PM 3/1/2025

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Saurabh S (Presenting)

Sub-basis

Rujuta Kulkarni

3 others

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- Rujuta Kulkarni

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ENG IN 7:13 PM 3/2/2025

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Saurabh S (Presenting)

Rujuta Kulkarni

Case II: x is largest.
 Since X contains more than one elements, $\exists b \in X$ s.t.
 $b < x$
 $\Rightarrow x \in (b, \infty) \in J^* - (b, \infty)$

Case III: x is neither smallest nor largest.
 $\Rightarrow \exists a, b \in X$
 Such that $a < x < b$
 $\Rightarrow x \in (a, b) \in J^*$

Saurabh S

Rujuta Kulkarni

8 others

People

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- Rachana Bobade
- Rujuta Kulkarni
- Rutuja Kore
- Saurabh S Meeting host
- sheetal dhane
- shital kadam
- sushil maske

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9:47 PM 3/2/2025

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Saurabh S (Presenting)

Rujuta Kulkarni

Case II: x is largest.
 Since X contains more than one elements, $\exists b \in X$ s.t.
 $b < x$
 $\Rightarrow x \in (b, \infty) \in J^* - (b, \infty)$

Case III: x is neither smallest nor largest.
 $\Rightarrow \exists a, b \in X$
 Such that $a < x < b$
 $\Rightarrow x \in (a, b) \in J^*$

Saurabh S

Rujuta Kulkarni

8 others

People

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9:47 PM 3/2/2025

SHIVAJI UNIVERSITY, KOLHAPUR
Centre for Distance and Online Education
Schedule of Orientation Session 2024-2025

MA History Programme

M.A. Part - I (History) Semester – I			
Sr. No.	Day & Date	Time	Topic
1.	Friday 20/ 09 / 2024	11.30 am to 12.30 pm	<ul style="list-style-type: none">• Introduction• Centre for Distance and Online Education• Study Center• ABC ID and DEB ID• Form Submission• Eligibility Process• Website• Exam Portal• Exam Center etc.
		12.30 pm to 01.30 pm	<ul style="list-style-type: none">• MA History Programme• Programme Structure• Syllabus• Self-Learning Material• Contact Session• Assignments• Question Paper Pattern• Examination

Faculty: Dr. Muphid Mujawar, Assistant Professor (History)

All Orientation Sessions will be conducted through **Google Meet (Online)** by Centre for Distance and Online Education, Shivaji University, Kolhapur

Google Meet Link: <https://meet.google.com/tfb-eqkt-bty>

Sd/-
Assistant Professor (History)
Centre for Distance and Online Education

Sd/-
Coordinator
Centre for Distance and Online Education

Sd/-
Deputy Registrar
Centre for Distance and Online Education

Sd/-
Director
Centre for Distance and Online Education

MA History Part 1 Sem 1 Orientation Session Dated 20 September 2024

Coordinator-Social Science CDE Shivaji University (You, presenting)

Stop presenting

शिवाजी विद्यापीठ, कोल्हापूर
दूरशिक्षण व ऑनलाईन शिक्षण केंद्र

MA (History) Part I - Semester I (2024-25)
Orientation Session (Winter)
Date: 20 September 2024

Coordinator-Social Science CDE Shivaji University

Kajal Mekh... Vishwajeet... प. अरविनी या... Saurabh Ka... Yadnya Da... Prasad Jag... Ujana Shinde Rupali Gaikwad Shivraj Vare 36 others

11:49 AM | tfb-eqkt-bty

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Coordinator-Social Science CDE Shivaji University (You, presenting)

Stop presenting

MA History Programme
M.A. Part - I (History) Semester - I

Sr. No.	Day & Date	Time	Topic	
I.	Friday 20/09/2024	11.30 am to 12.30 pm	<ul style="list-style-type: none">• Introduction• Centre for Distance and Online Education• Study Center• ADBC ID and DED ID• Form Submission	
		12.30 pm to 01.30 pm	<ul style="list-style-type: none">• Eligibility Process• Website• Exam Portal• Exam Center etc.	
			<ul style="list-style-type: none">• MA History Programme• Programme Structure• Syllabus• Self-Learning Material	
			<ul style="list-style-type: none">• Contact Session• Assignments• Question Paper Pattern• Examination	

Faculty: Dr. Muphid Mujawar, Assistant Professor (History)

All Orientation Sessions will be conducted through Google Meet (Online) by Centre for Distance and Online Education, Shivaji University, Kolhapur

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Coordinator-Social Science CDE Shivaji University

Kajal Mekh... Vishwajeet... प. अरविनी या... Chaitanya ing... Ujana Shinde Datta Jamadar Rupali Gaikwad Shivraj Vare jaydev pawar 40 others

12:00 PM | tfb-eqkt-bty

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MA History Part 1 Sem 1 Orientation Session Dated 20 September 2024

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12:30 PM | tfb-eqkt-bty

29°C Mostly sunny

Search

ENG UK

12:30 20/09/2024

In-call messages

Let everyone send messages

Unless they're pinned, messages can only be seen by people in the call when the message is sent. All messages are deleted when the call ends.

पै. अश्विनी यादव 12:16 PM
Sir screen share kraa mhanje samjeli

Sagar M. Davari 12:28 PM
परिक्षा कधी असेल सर ?

digvijay sabale 12:28 PM
Mi BA mukt vidyapeeth madhun kelay
Ani te vidyapeeth khup lamba ahe.
Mia migration certificate pahije ka compalsary
Ok sir

पै. अश्विनी यादव 12:29 PM
Sir books bdhal je information sangitli hoti ti plz
return sangaa ki ti books kuthun ghyaychi

Send a message

Coordinator-So...

20 others

Manisha LAD

digvijay sabale

Nikita Jadhav

Yadnya Dakave

Sona Kamble

Megha Sutar

Shobha Patil

Sangita Nale

Snehal Wagh

Sonali Bhosale

Dhanasri Koli

Vishal Nale

Vinu Hanabar

Monali Patil

Rekha Gound

Priyanka Koli

jaydev pawar

Shivraj Vare

Rupali Gaikwad

Ujana Shinde

Vedashree Sam...

Chaitanya Ingale

Datta Jamadar

Vishwajeet G...

Nanasaheb ...

Kajal Mekhale

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1:01 PM | tfb-eqkt-bty

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13:01 20/09/2024

Coordinator-S...

Vinu Hanabar

Nivas Desai

Vedashree Sa...

Nikita Jadhav

Sonali Bhosale

Vishal Nale

Datta Jamadar

Ujana Shinde

Rupali Gaikwad

Monali Patil

Chaitanya Ing...

jaydev pawar

Shobha Patil

Megha Sutar

Sona Kamble

Sangita Nale

Snehal Wagh

Vishwajeet Ga...

Dhanasri Koli

Sharvari Jamd...

Sanjivani Desh...

Shubhangi Ku...

Suraj Powar

पै. अश्विनी यादव

Aniket P. BSIS ...

Prasad Jagatap

varsha charap...

Rohit Sawant

Sagar M. Davari

Dhillan Gaonkar

Prerana Rana...

Meghna Mand...

Manisha LAD

Rukmini Jagad...

Amir mujawar

Kedar Chougale

Supriya Jagad...