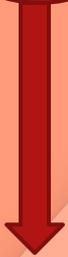




# **MOOCs on SWAYAM for School Education**

# MOOCs

**M**



**MASSIVE**

**O**



**OPEN**

**O**



**ONLINE**

**C**



**COURSES**

For Learners...

Acquire skills that  
meet your needs

EXPLORE COURSES

**\*\* ARPIT Certificate Download \*\*** **New**  
**\*\* SWAYAM Exam May 2019 Result \*\*** **New**  
Archive SWAYAM courses | Older NPTEL courses



#### NATIONAL COORDINATORS



AICTE



CEC



IGNOU



IIMB



NCERT



NIOS



NITTTR



NPTEL



UGC

#### SWAYAM BENEFITS

<https://swayam.gov.in>

# SWAYAM

**(Study Webs of Active –Learning for Young Aspiring Minds) initiated by  
Ministry of Education, Govt. of India**

- 1. One stop web and mobile based Interactive e-content for all courses from High School to University level.**
- 2. High quality learning experience using multimedia on anytime, anywhere basis.**
- 3. State of the art system that allows easy access and monitoring.**
- 4. Hybrid model of delivery that adds to the quality of classroom teaching.**

# MOOCs on SWAYAM

- Designed to achieve three cardinal principles of Education viz, access, equity and quality.
- All the courses are interactive, prepared by the best experts in the country.
- All the courses offered on SWAYAM are free of cost to the learners.
- Instant assessment and feedback.
- Interaction with the course mates all over the world through the discussion forum.

# Scope of Courses on SWAYAM

- School education (classes IX-XII) modules.
- Teacher training as well as teaching and learning aids.
- Courses to learners to help them understand the subjects better and also to help them in better preparedness for competitive examinations for admissions to professional degree programmes.
- Skill based courses, which cover both post-higher secondary school skills that are presently the domain of polytechnics as well as industrial skills certified by the sector skill councils of various Ministries.
- Curricula and courses that can meet the needs of life-long learners.
- Independent courses which may not be part of any set curriculum and may be taught as awareness courses, continuing education programme and for training of specific skill sets.

# **SWAYAM - National Coordinators**

**To ensure the best production and delivery of content in every domain, 9 National Coordinators have been appointed**

<b>S.No.</b>	<b>National Coordinator</b>	<b>Role or Sectors covered by NC</b>
1.	AICTE (All India Council for Technical Education)	For self-paced and international courses
2.	UGC (University Grants Commission)	Non-Technical PostGraduate Degree Programmes
3.	NPTEL (National Programme on Technology Enhanced Learning)	Technical / Engineering UG & PG degree programmes
4.	CEC (Consortium for Educational Communication)	Non Technical UnderGraduate Degree programmes
5.	<b>NCERT (National Council of Educational Research and Training)</b>	<b>School Educational Programmes from Class 9<sup>th</sup> to 12<sup>th</sup></b>
6.	NIOS (National Institute of Open Schooling)	Out of school children Educational Programmes from Class 9 <sup>th</sup> to 12 <sup>th</sup>
7.	IGNOU (Indira Gandhi National Open University)	For out-of-school student
8.	IIMB (Indian Institute of Management, Bangalore)	Management Studies programmes
9.	NITTTR (National Institute of Technical Teachers Training and Research)	Teacher Training programme

# **Courses Launched by NCERT**

# Class XI

1. Accountancy, Class XI, Part-I	9. Geography, Class XI, Part-II
2. Biology, Class XI, Part-I	10. Mathematics, Class XI, Part-I
3. Biology, Class XI, Part-II	11. Mathematics, Class XI, Part-II
4. Business Studies, Class XI, Part-I	12. Physics, Class XI, Part-I
5. Chemistry, Class XI, Part-I	13. Physics, Class XI, Part-II
6. Chemistry, Class XI, Part-II	14. Psychology, Class XI, Part-I
7.. Economics, Class XI, Part-I	15. Psychology, Class XI, Part-II
8. Geography, Class XI, Part-I	16. Sociology, Class XI, Part-1

# Class XII

1.	Accountancy, Class XII, Part-I	8.	Geography, Class XII, Part-I
2.	Accountancy, Class XII, Part-II	9.	Geography, Class XII, Part-II
3.	Biology, Class XII, Part-I	10.	Mathematics, Class XII, Part-I
4.	Business Studies, Class XII, Part-I	11.	Physics, Class XII, Part-I
5.	Chemistry, Class XII, Part-1	12.	Physics, Class XII, Part-II
6.	Economics, Class XII, Part-I	13.	Psychology, Class XII, Part-I
7..	English, Class XII, Part-1 (APPEAR)	14.	Sociology, Class XII, Part-1

# **SWAYAM - Course Approach**

### Quadrant 3 ●

**Discussion forum** for raising of doubts and clarifying them on real time basis by the course coordinator or his/ her team

### Quadrant 1 ●

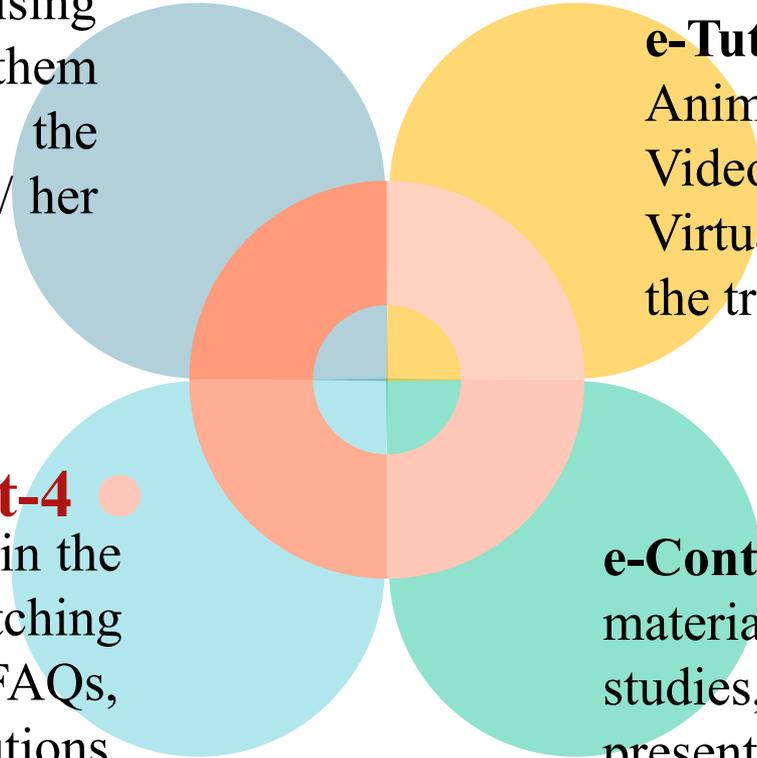
**e-Tutorial** (Video, Audio, Animation, Simulations, Video Demonstration, Virtual labs etc. along with the transcription)

### Quadrant-4 ●

**Assessment** (MCQs, fill in the blanks, short Q/As, matching questions, quizzes, FAQs, assignments and solutions, clarification on general misconceptions etc.)

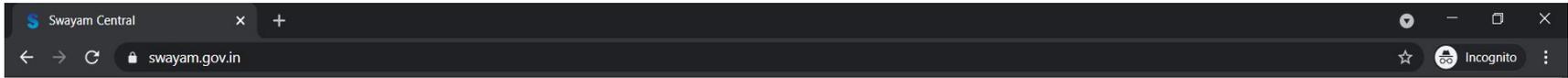
### Quadrant 2 ●

**e-Content** (Self-instructional material, e-books, case studies, illustrations, presentations etc. and also contain web-resources, open source content etc.)



# How to Join the Course?

# SWAYAM Website



[About Swayam](#) | [All Courses](#) | [National Coordinators](#) | [Local Chapters](#)

COURSE CATALOG ▾

Search Catalog...



SIGN-IN / REGISTER

For Learners...

Acquire skills that  
meet your needs

EXPLORE COURSES



SWAYAM Courses in Regional  
languages

Let COVID-19 not Stop your  
Learning. Continue with  
SWAYAM

**NPTEL Examination scheduled  
for 24/25 April 2021 stands  
postponed.**

NATIONAL COORDINATORS



13:25

VoLTE+ LTE2 73%

← swayam



Swayam  
SWAYAM IITM

Install

4.2 ★

37K reviews



35 MB

3+

Rated for 3+ ⓘ

1M+

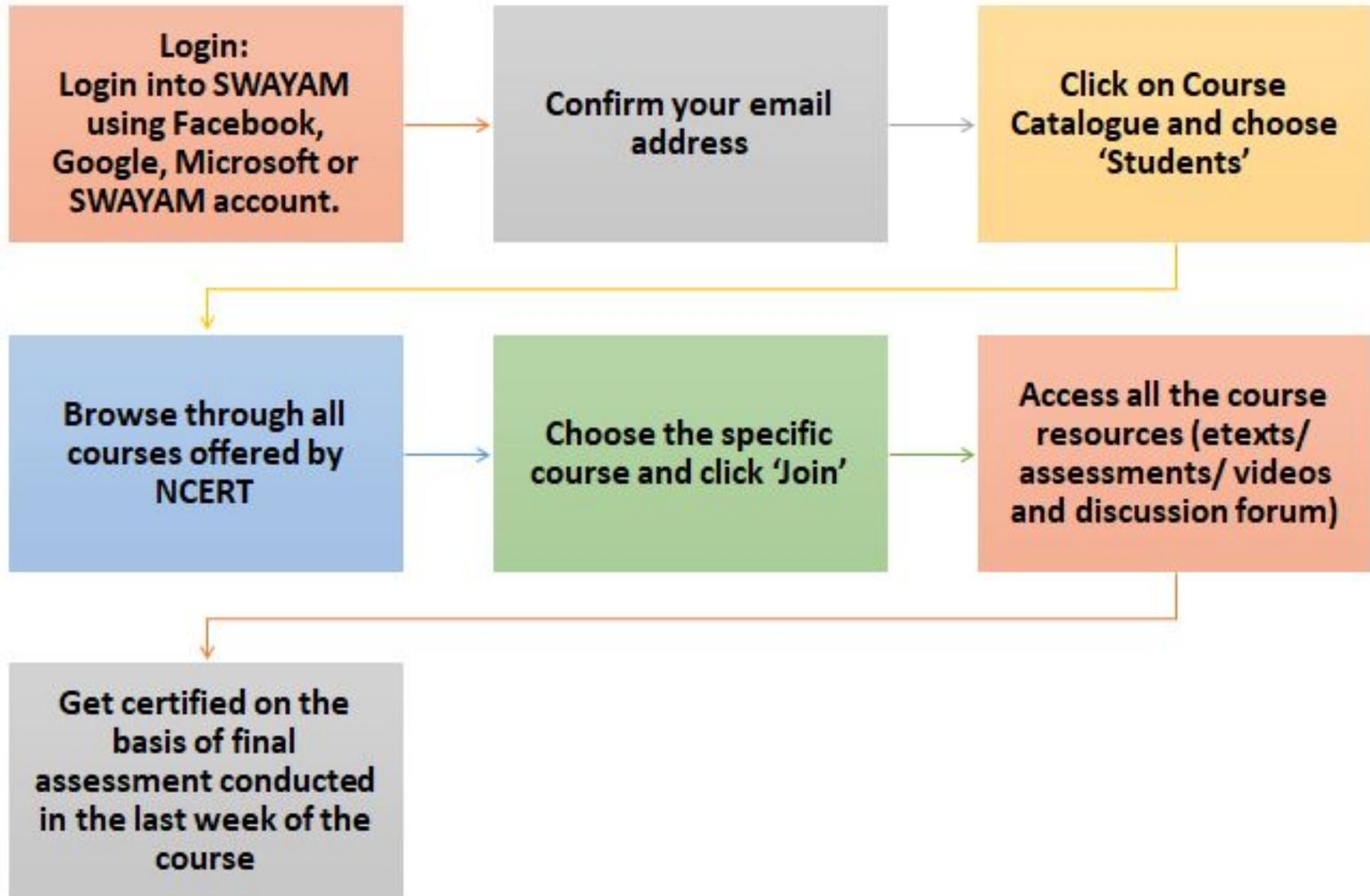
Downloads



Designed for students to consume SWAYAM content  
anywhere, anytime and anywhere.

# SWAYAM App

# **How to Access the Course?**



# How to Access the course

- Once you have successfully joined the course, now you can access the course content and different features provided by the platform for the interactivensness.



**Announcements**

One can easily see all the announcement done specifically in the course under this section

Course outline

- Module 1
- Module 2
- Module 3
- Module 4
- Extra Reading Materials
- Module 5
- Module 6
- Module 7
- Module 8
- Module 9
- Module 10
- Module 11
- Module 12
- Module 13

## Welcome to the Course!

2021-04-13

Welcome to the online course on 'Course Name'. This course has various types of learning resources like reading materials, explanation videos, practice questions, additional resources in the form of weblinks etc. The course content and assessments are open through out the course period. Looking forward to your enthusiastic participation in all the activities. You can post your queries and doubts in the discussion forum entitled 'Ask a Question' on the course portal which will be addressed by subject experts.

The final assessment will be conducted in the last week of the course for the certification. Your feedback will be highly appreciated.

Stay Safe, Keep Learning and Good Luck

## Beware Learners of Fraudulent Activities!

2021-01-21

Dear learners,

It has been found that some fraudulent emails are being circulated among learners on behalf of National Coordinators, with monetary demands. Attached is a screenshot of the same for reference.

Learners are cautioned not to fall prey to such claims and emails demanding money, or any other financial / personal information.

So kindly make cautionary measures to beware about such fraudulent activities.

Thanks and Regards



The content of the course is underlying this section

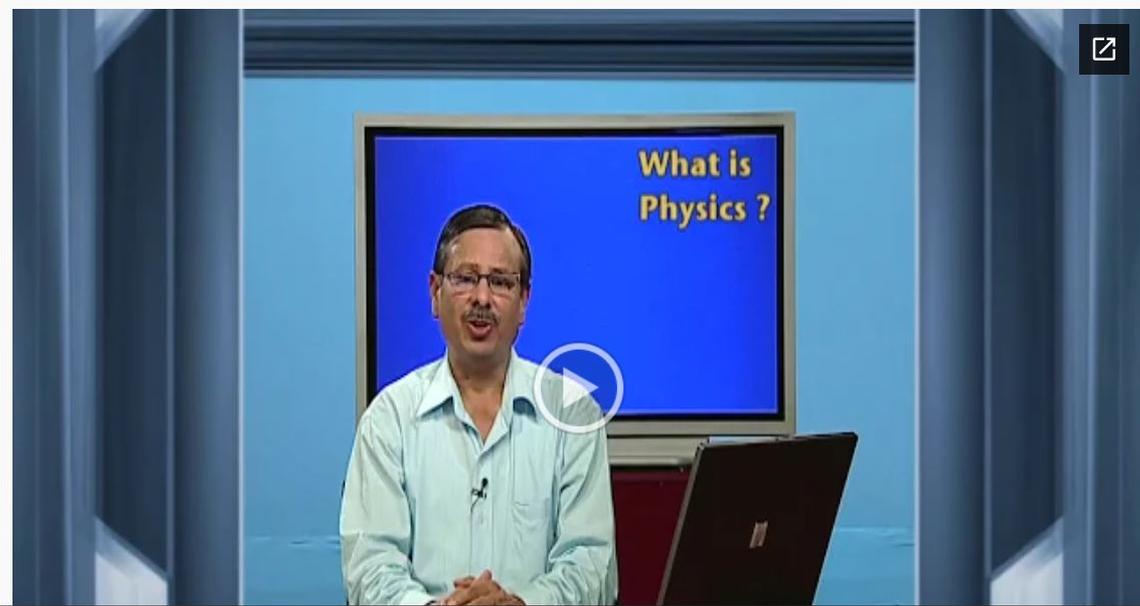
Course outline

- Module 1
  - Unit 1: Module 1: Physics and Its Scopes
  - Quiz : keph\_10101\_Self-Assessment\_Apr\_2021
- Module 2
- Module 3
- Module 4
- Extra Reading Materials
- Module 5
- Module 6
- Module 7
- Module 8
- Module 9
- Module 10
- Module 11

## Physics and Its Scopes

### Module 1: Physics and Its Scope\_eTutorial

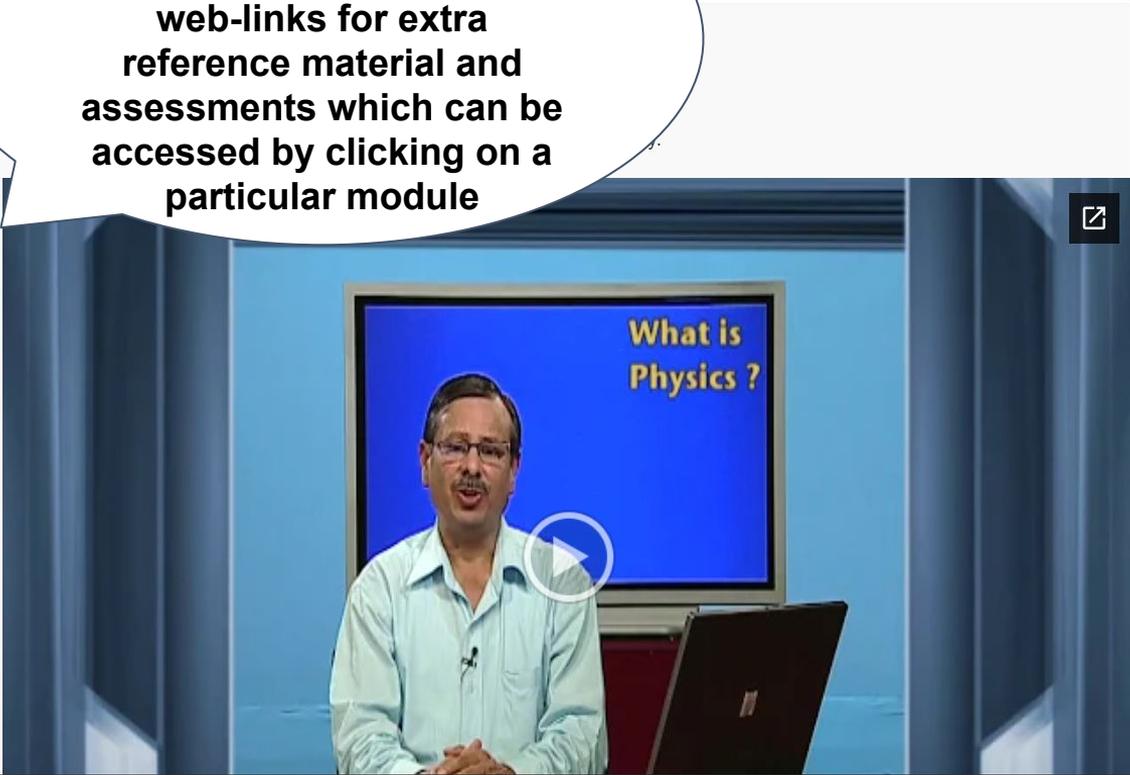
Describes the meaning of physics, relates physics technology and society.





**Every module is having different content like reading material, videos, web-links for extra reference material and assessments which can be accessed by clicking on a particular module**

- Course outline
- Module 1
  - Unit 1: Module 1: Physics and Its Scopes
  - Quiz : keph\_10101\_Self-Assessment\_Apr\_2021
- Module 2
- Module 3
- Module 4
- Extra Reading Materials
- Module 5
- Module 6
- Module 7
- Module 8
- Module 9
- Module 10
- Module 11





Course outline

Module 1

Unit 1: Module 1: Physics

Quiz : keph\_10101\_Self-Assessment\_Apr\_2021

Module 2

Module 3

Module 4

Extra Reading Materials

Module 5

Module 6

Module 7

Module 8

Module 9

Module 10

Module 11

# keph\_10101\_Self-Assessment\_Apr\_2021

Assignment not submitted

Due date: 2021-09-24, 23:59 IST.

- 1) Choose the incorrect statement 1 point
  - Gravitational force is a central force
  - Electromagnetic force is a central force
  - Nuclear force is a central force
  - Gravitational force is the weakest force in nature.
  
- 2) **Main thrust in physics is on** 1 point
  - Unification only
  - Reduction only
  - Unification and reduction
  - Technology
  
- 3) **Origin of the word science is from** 1 point
  - French word Scientia
  - Greek word Scientia
  - German word Scientia
  - Latin word Scientia
  
- 4) **The quantum model of atom was formulated by** 1 point
  - Rutherford



**Assessments are given in every module which can be attempted in the given due date and will be assigned marks as per the correct answers**

- Course outline
- Module 1**
- Unit 1: Module 1: Physics and Its Scopes
  - Quiz : keph\_10101\_Self-Assessment\_Apr\_2021
- Module 2**
- Unit 1: Module 2: Units and Measurements
  - Quiz : keph\_10201\_Self-Assessment\_Apr\_2021
- Module 3**
- Unit 1: Module 3: Errors in Measurements
  - Quiz : keph\_10202\_Self-Assessment\_Apr\_2021**
- Module 4**
- Unit 1: Module 4: Dimensional Analysis
  - Quiz : keph\_10203\_Self-Assessment\_Apr\_2021
- Extra Reading Materials**
- Unit 1: Physical World And Measurements\_Study Guide

## keph\_10202\_Self-Assessment\_Apr\_2021

Assignment not submitted

**Due date: 2021-09-24, 23:59 IST.**

- The number of significant figures in 0.06900 is 1 point
  - 5
  - 4
  - 3
  - 2
- The mean length of an object is 5 cm. Which of the following measurements is most accurate? 1 point
  - 4.9 cm
  - 4.805 cm
  - 5.25 cm
  - 5.4 cm
- Each side of a cube is measured to be 5.402 cm. The total surface area and the volume of the cube in appropriate significant figures are: 1 point
  - $175.1 \text{ cm}^2, 157 \text{ cm}^3$
  - $175.1 \text{ cm}^2, 157.6 \text{ cm}^3$
  - $175 \text{ cm}^2, 157 \text{ cm}^3$
  - $175.08 \text{ cm}^2, 157.639 \text{ cm}^3$
- The percentage errors in the measurement of mass and speed are 2% and 3% respectively. How much will be the maximum percentage error in the estimation of the kinetic energy obtained by measuring mass and speed 1 point
  - 11%
  - 8%
  - 5%
  - 1%



The details of about the course can be seen under this section

- Course outline
- Module 1
- Module 2
- Module 3
- Module 4
- Extra Reading Materials
- Module 5
- Module 6
- Module 7
- Module 8
- Module 9
- Module 10
- Module 11
- Module 12
- Module 13

## Welcome to the Course!

2021-04-13

Welcome to the online course on 'Course Name'. This course has various types of learning resources like reading materials, explanation videos, practice questions, additional resources in the form of weblinks etc. The course content and assessments are open through out the course period. Looking forward to your enthusiastic participation in all the activities. You can post your queries and doubts in the discussion forum entitled 'Ask a Question' on the course portal which will be addressed by subject experts.

The final assessment will be conducted in the last week of the course for the certification. Your feedback will be highly appreciated.

Stay Safe, Keep Learning and Good Luck

## Beware Learners of Fraudulent Activities!

2021-01-21

Dear learners,

It has been found that some fraudulent emails are being circulated among learners on behalf of National Coordinators, with monetary demands. Attached is a screenshot of the same for reference.

Learners are cautioned not to fall prey to such claims and emails demanding money, or any other financial / personal information.

So kindly make cautionary measures to beware about such fraudulent activities.

Thanks and Regards



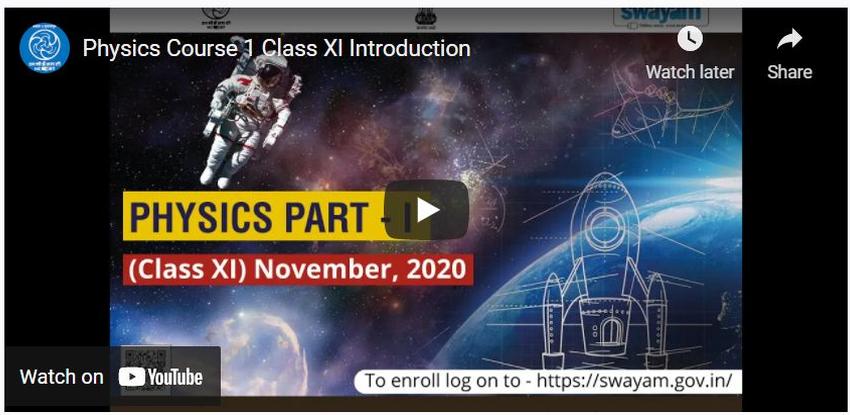
Courses >

# Physics XI Part-I

By Anuradha Mathur | CIET, NCERT, New Delhi

[Go to course](#)

Learners enrolled: 3467



Summary	
Course Status :	Upcoming
Course Type :	Elective
Duration :	24 weeks
Start Date :	12 Apr 2021
End Date :	30 Sep 2021
Exam Date :	24 Sep 2021
Enrollment Ends :	31 Jul 2021
Category :	o School
Level :	School

The world around us has an astonishing variety of phenomenon. Science /Physics gives us a chance to take a closer look and try to understand these. We have evidence to support the work done since ancient times by thinkers, philosophers and scientists. They tried to unravel the mysteries around us. The excitement of learning, to do systematic scientific work is the root of this course. You will learn methods of measurement-including universally accepted norms. Kinematics, that helps us to describe any motion and dynamics which helps us to identify the causes of motion. Some energy is required to move things and we will define these in scientific terminology in a way that communication about physics to others is easy. In this course we will





## Course layout

Unit No.	Module No.	Module Name
Unit 1 – Physical World and Measurements	Module 1	Physics and its Scope
	Module 2	Units and Measurements
	Module 3	Errors in Measurements
	Module 4	Dimensional Analysis
	Extra Reading Materials	
Unit 2 – Kinematics	Module 5	Rest and Motion
	Module 6	Distance and Displacement
	Module 7	Speed and velocity
	Module 8	Accelerated motion
	Module 9	Solving Problems using equations of motion
	Module 10	Vectors
	Module 11	Projectile Motion
	Module 12	Circular motion
	Module 13	Problems on motion in two dimensions
	Module 14	Mathematical Tools For Solving Problems
Extra Reading Materials		
Unit 3 – Laws of Motion	Module 15	Newton's first law of motion
	Module 16	Newton's second law of motion
	Module 17	Third law of motion
	Module 18	Types of forces
	Module 19	Friction
	Module 20	Circular motion and Banking of roads
	Module 21	Solving problems using Newton's laws of motion
Extra Reading Materials		



## Books and references

NCERT "Physics Part-I" for Class - XI  
url:- <https://ncert.nic.in/textbook.php?keph1=0-8>

## Instructor bio



**Anuradha Mathur**  
CIET, NCERT, New Delhi

Anuradha Mathur has been teaching Physics since 1975 at secondary and senior secondary level. She has also taught physics to undergraduate students at Harvard University Boston She represented Indian schools at ICT conference in Hawaii, Paris GATE Global Alliance for Transnational Education, IIT Delhi and IIM Bangalore. At Modern School Vasant Vihar, New Delhi she was head of Physics and head of Resource Center. She set up the resource centre 1997 and a virtual school in 2000. She led the development of a diagnostic e-test, for the process of teaching and learning. She developed techniques to evolve net based projects, science exhibitions, science toys production and creative models, many of these were awarded at national and international level. She has been part of development team for teaching learning material for CBSE, NCERT, NIOS, ICSE since 1983. She was also member of Textbook Development Committee for senior secondary physics text book (2006). She is a Teacher trainer and conducts workshops to teacher groups. She has been associated with Hindustan Times PACE (Partnership for Action in Education) programme since 1998 developing curriculum support packages using newspapers for academics and education , She is currently actively working on development of material for National Repository of Open Educational Resource (NROER) at CIET NCERT. She has been associated with SWAYAM MOOC since its inception in 2015.

### SMEs – Names and Affiliation



Learners can ask their queries/ doubts and give feedback by clicking this section

- Course outline
- Module 1
- Module 2
- Module 3
- Module 4
- Extra Reading Materials
- Module 5
- Module 6
- Module 7
- Module 8
- Module 9
- Module 10
- Module 11
- Module 12
- Module 13

## Welcome to the course

2021-04-13

Welcome to the online course on 'Course Name'. This course has various types of learning resources like reading materials, explanation videos, practice questions, additional resources in the form of weblinks etc. The course content and assessments are open through out the course period. Looking forward to your enthusiastic participation in all the activities. You can post your queries and doubts in the discussion forum entitled 'Ask a Question' on the course portal which will be addressed by subject experts.

The final assessment will be conducted in the last week of the course for the certification. Your feedback will be highly appreciated.

Stay Safe, Keep Learning and Good Luck

## Beware Learners of Fraudulent Activities!

2021-01-21

Dear learners,

It has been found that some fraudulent emails are being circulated among learners on behalf of National Coordinators, with monetary demands. Attached is a screenshot of the same for reference.

Learners are cautioned not to fall prey to such claims and emails demanding money, or any other financial / personal information.

So kindly make cautionary measures to beware about such fraudulent activities.

Thanks and Regards



Learners can see their progress of attempting the assessments under this section once the due date of attempting them is over

- Course outline
- Module 1
- Module 2
- Module 3
- Module 4
- Extra Reading Materials
- Module 5
- Module 6
- Module 7
- Module 8
- Module 9
- Module 10
- Module 11
- Module 12
- Module 13

## Anjali

Date enrolled: 2021-05-25

Email: anjalikhurana7879@gmail.com

Name: Anjali

### Assessment scores

- keph\_10101\_Self-Assessment\_Apr\_2021: -
- keph\_10201\_Self-Assessment\_Apr\_2021: -
- keph\_10202\_Self-Assessment\_Apr\_2021: -
- keph\_10203\_Self-Assessment\_Apr\_2021: -
- keph\_10301\_Self-Assessment\_Apr\_2021: -
- keph\_10302\_Self-Assessment\_Apr\_2021: -
- keph\_10303\_Self-Assessment\_Apr\_2021: -
- keph\_10304\_Self-Assessment\_Apr\_2021: -
- keph\_10305\_Self-Assessment\_Apr\_2021: -

- Module 31
- Module 32
- Module 33
- Module 34
- Module 35
- Module 36
- Extra Reading Materials
- Module 37
- Module 38
- Module 39
- Module 40
- Module 41
- Extra Reading Materials
- Feedback Form

- keph\_10701\_Self-Assessment\_Apr\_2021: -
- keph\_10702\_Self-Assessment\_Apr\_2021: -
- keph\_10703\_Self-Assessment\_Apr\_2021: -
- keph\_10704\_Self-Assessment\_Apr\_2021: -
- keph\_10705\_Self-Assessment\_Apr\_2021: -
- keph\_10706\_Self-Assessment\_Apr\_2021: -
- keph\_10707\_Self-Assessment\_Apr\_2021: -
- keph\_10708\_Self-Assessment\_Apr\_2021: -
- keph\_10801\_Self-Assessment\_Apr\_2021: -
- keph\_10802\_Self-Assessment\_Apr\_2021: -
- keph\_10803\_Self-Assessment\_Apr\_2021: -
- keph\_10804\_Self-Assessment\_Apr\_2021: -
- keph\_10805\_Self-Assessment\_Apr\_2021: -

**To subscribe and unsubscribe from the Announcement and Discussion Forum email notifications**

Announcement:  
You are currently receiving course related emails. [Click here to unsubscribe.](#)

Discussion forum:  
If you want to unsubscribe from forum [Click here](#)

[manage course registration from your profile](#)



Course outline

Module 1

● Unit 1: Module 1: Physics and Its Scopes

○ Quiz : keph\_10101\_Self-Assessment\_Apr\_2021

Module 2

Module 3

Module 4

Extra Reading Materials

Module 5

Module 6

Module 7

Module 8

Module 9

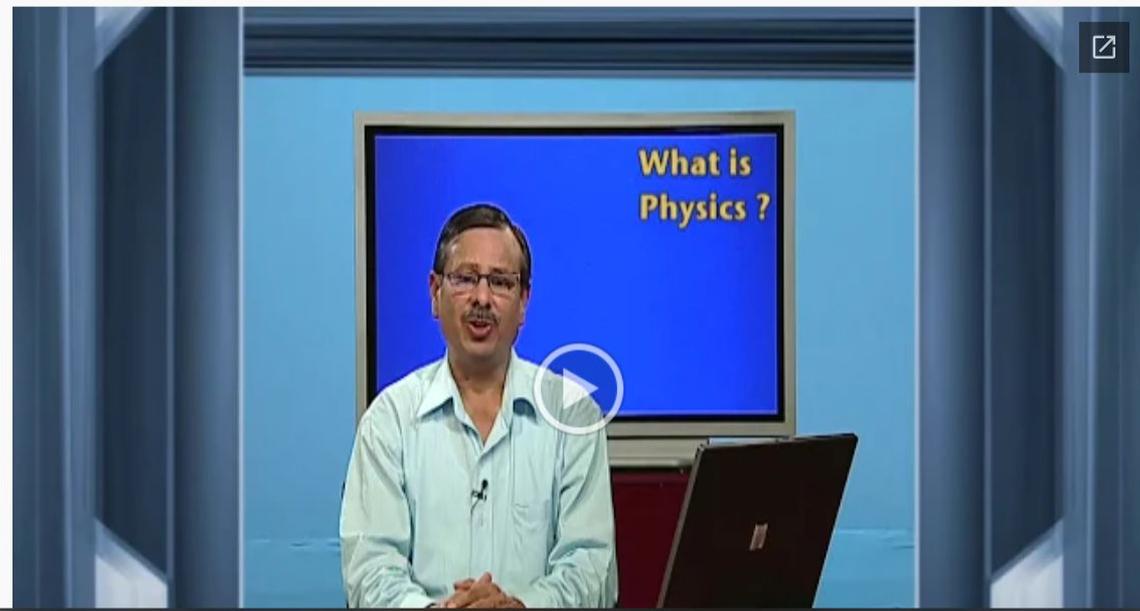
Module 10

Module 11

Unit 1: Module 1: Physics

Module 1: Physics and Its Scopes

Describes the meaning of physics, relates physics to...



Learners can change their profile information, can see the list of enrolled courses and sign out from the account under this section

anjalikhurana7879@gmail.com ▾

- MY PROFILE
- MY COURSES
- SIGN-OUT



anjalikhurana7879@gmail.com v

- MY PROFILE
- MY COURSES
- SIGN-OUT



Course outline

Module 1

Unit 1: Module 1: Physics and Its Scopes

Quiz : keph\_10101\_Self-Assessment\_Apr\_2021

Module 2

Module 3

Module 4

Extra Reading Materials

Module 5

Module 6

Module 7

Module 8

Module 9

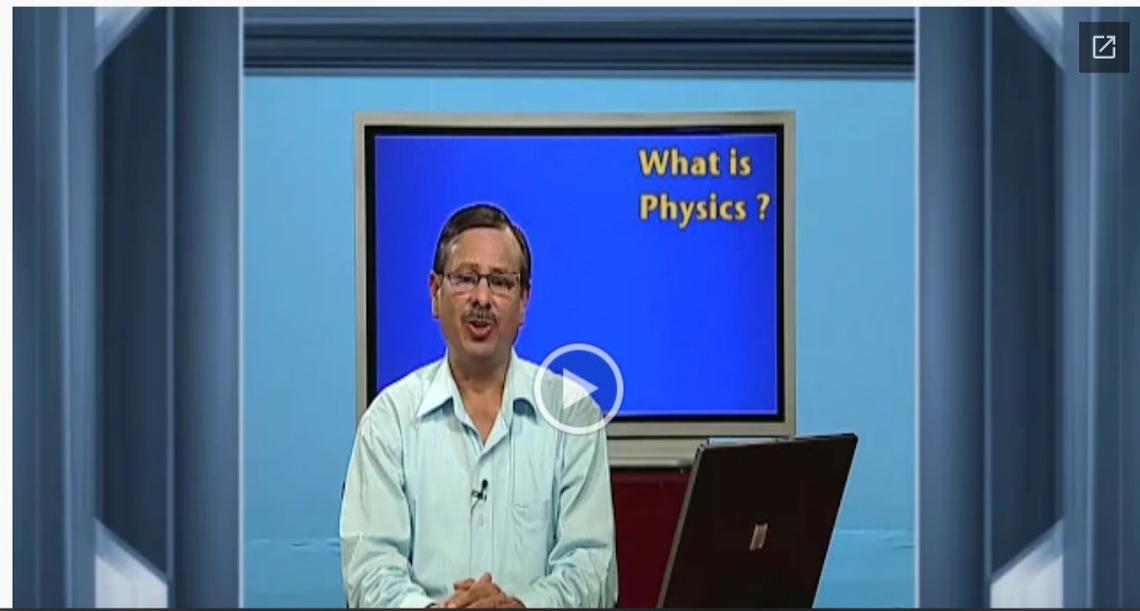
Module 10

Module 11

## Unit 1: Module 1: Physics and Its Scopes

### Module 1: Physics and Its Scope\_eTutorial

Describes the meaning of physics, relates physics technology and society.





anjalikhurana7879@gmail.com ▾

- MY PROFILE
- MY COURSES**
- SIGN-OUT



Course outline

Module 1

Unit 1: Module 1: Physics and Its Scopes

Quiz : keph\_10101\_Self-Assessment\_Apr\_2021

Module 2

Module 3

Module 4

Extra Reading Materials

Module 5

Module 6

Module 7

Module 8

Module 9

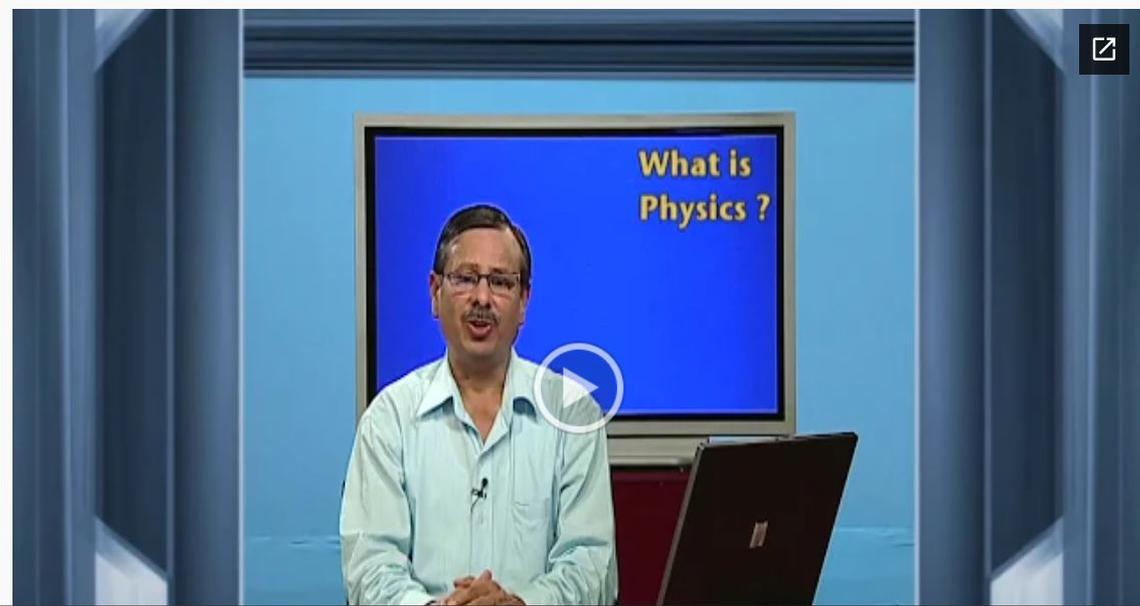
Module 10

Module 11

## Unit 1: Module 1: Physics and Its Scopes

### Module 1: Physics and Its Scope\_eTutorial

Describes the meaning of physics, relates physics technology and society.





COURSE CATALOG ▾

Search Catalog... 🔍

anjalikhurana7879@gmail.com ▾

 MY COURSES

 SYNC COURSES

Search your courses ✕

Upcoming/Ongoing ⌵  Completed ⌵ 

The list of enrolled courses will reflect here

 Physics XI Part-I

[Go to Course](#)

 Accountancy XI Part-I

[Go to Course](#)



COURSE CATALOG ▾

Search Catalog... 🔍

anjalikhurana7879@gmail.com ▾

 MY COURSES

 SYNC COURSES

Search your courses ✕

Upcoming/Ongoing ⌵

Completed ⌵

The list of upcoming and ongoing enrolled courses will appear here

 Physics XI Part-I

[Go to Course](#)

 Accountancy XI Part-I

[Go to Course](#)



COURSE CATALOG ▾

Search Catalog...

anjalikhurana7879@gmail.com ▾

MY COURSES

SYNC COURSES

Search your courses

- Upcoming/Ongoing
- Completed**
- 12

The list of completed will appear here

Physics XI Part-I

Go to Course

Accountancy XI Part-I

Go to Course

# How to Download the Content?

# How to Download the Content

- Under the Content Outline tab, learner can access the course content in which reading material and videos are open to download.
- The downloaded material can be saved in the system and learners can use them even after the course is over, or offline.

- Course outline
- How to access the course?
- Module 1
- Module 2
- Module 3
- Module 4
  - Forms of Business Organisation/ Sole Proprietorship - Part 1**
  - Quiz : kebs\_10201\_Self-Assessment\_Apr\_2021
- Module 5
- Module 6
- Module 7
- Module 8
- Module 9
- Module 10
- Module 11
- Module 12
- Module 13

## Forms of Business Organisation/ Sole Proprietorship – Part 1



Objectives:

- Course outline
- How to access the course?
- Module 1
- Module 2
- Module 3
- Module 4
  - Forms of Business Organisation/ Sole Proprietorship - Part 1
  - Quiz : kebs\_10201\_Self-Assessment\_Apr\_2021
- Module 5
- Module 6
- Module 7
- Module 8
- Module 9
- Module 10
- Module 11
- Module 12
- Module 13

### Forms of Business Organisation/ Sole Proprietorship – Part 1



**Video Preview Area**

Course outline

How to access the course?

Module 1

Module 2

Module 3

Module 4

Forms of Business Organisation/ Sole Proprietorship - Part 1

Quiz : kebs\_10201\_Self-Assessment\_Apr\_2021

Module 5

Module 6

Module 7

Module 8

Module 9

Module 10

Module 11

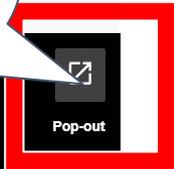
Module 12

Module 13

### Forms of Business Organisation/ Sole Proprietorship



Click on pop-out and the video will appear in next tab

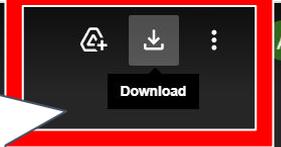


Objectives:

BUSINESS XI CH2 EP1.mp4

Open with

Download and save it on your system or you can directly add video to your drive



Play (k)

0:21 / 10:17



- Module 13
- Module 14
- Module 15
- Module 16
- Module 17
- Module 18
- Module 19
- Module 20
- Module 21
- Module 22
- Module 23
- Feedback Form

- Objectives:**
- Introduction of forms of Business Organization
  - Sole Proprietorship - Meaning
  - Features of Sole Proprietorship
  - Merits and Limitations of Sole Proprietorship



### 1. Details of Module and its structure

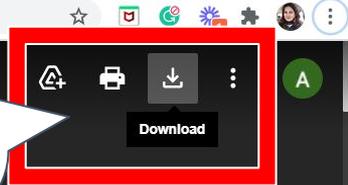
Module Detail	
Subject Name	Business Studies
Course Name	Business Studies 01 (Class XI, Part- 1)
Module Name/Title	Forms of Business Organisation/ Sole Proprietorship – Part 1
Module Id	kebs_10201
Pre-requisites	Knowledge about Forms of Business Organisation/ Sole Proprietorship
Objectives	After going through this lesson, the learners will be able to understand the following: <ul style="list-style-type: none"><li>• Introduction of forms of Business Organization</li><li>• Sole Proprietorship - Meaning</li><li>• Features of Sole Proprietorship</li><li>• Merits and Limitations of Sole Proprietorship</li></ul>
Keywords	Sole Proprietorship, Ownership, Liability, Profits, Losses

### 2. Development Team

Role	Name	Affiliation
National MOOC Coordinating Committee Member	Dr. Anil Kumar Bhatnagar	NCERT, NCERT, New Delhi
Program Coordinator	Dr. Rejaul Karim Barbhuiya	CIET, NCERT, New Delhi

Forms of Business Organisation/ Sole Proprietorship – Part 1





You can either download/ directly save on drive or print

### 1. Details of Module and its structure

Module Detail	
Subject Name	Business Studies
Course Name	Business Studies 01 (Class XI, Part- 1)
Module Name/Title	Forms of Business Organisation/ Sole Proprietorship – Part 1
Module Id	kebs_10201
Pre-requisites	Knowledge about Forms of Business Organisation/ Sole Proprietorship
Objectives	After going through this lesson, the learners will be able to understand the following: <ul style="list-style-type: none"><li>• Introduction of forms of Business Organization</li><li>• Sole Proprietorship - Meaning</li><li>• Features of Sole Proprietorship</li><li>• Merits and Limitations of Sole Proprietorship</li></ul>
Keywords	Sole Proprietorship, Ownership, Liability, Profits, Losses

### 2. Development Team

Role	Name	Affiliation
National MOOC Coordinator	Prof. Amarendra P. Behera	CIET, NCERT, New Delhi
Program Coordinator	Dr. Rejaul Karim Barbhuiya	CIET, NCERT, New Delhi
Course Coordinator (CC) / PI	Dr. Punnam Veeraiah	CIVE, RIE Campus, Bhopal
Course Co-Coordinator / Co-PI	Dr. Nidhi Gusain	CIET, NCERT, New Delhi
Subject Matter Expert (SME)	Mrs. Madhu Vaswani	Delhi Public School, Mathura Road, New Delhi
Review Team	Dr. Mumpalle Usha	UPGC, Osmania University, Hyderabad
Technical Team	Mr. Shobit Saxena	CIET, NCERT, New Delhi

# How to Join the Discussion Forum

- After signing in and selecting the course, Go to Course
- Choose the option 'Ask a Question' from the menu options
- A new page will appear showing to Join Group.
- For joining the group, choose the required notifications mode to be turned on



COURSE CATALOG

Search Catalog...

anjalikhurana7879@gmail.com

MY COURSES

SYNC COURSES

Search your courses

- Upcoming/Ongoing
- Completed

Geography XI Part-I

Go to Course

Biology XII Part-I

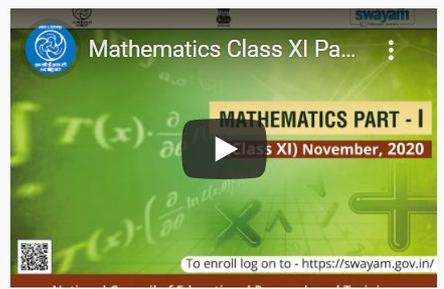
Go to Course



- Course outline
- How to access the course?
- Module 1
- Module 2
- Module 3
- Module 4
- Module 5
- Assignment 1
- Module 6
- Module 7
- Module 8
- Module 9
- Assignment 2
- Module 10
- Module 11
- Module 12

### Mathematics XI Part-I

Mathematics is a human activity, a social phenomenon a set of methods used to help illuminate the world . It is said so because it makes a man systematic. It nurtures the power of reasoning, creativity, critical thinking and problem solving ability. Mathematics is a part of our life experience which we will talk about in this course. Mathematics is the foundation and vitalizing energy for the basic sciences. This course will not only help to understand new concepts but also develop a new insight to view mathematics as an effective and joyful learning. The course will deal with the concepts from class 11th mathematics like sets and certain functions, trigonometric functions, quadratic equations, principle of mathematical induction, complex numbers, linear inequalities and permutation and combination. The course chapters are divided into certain modules which have been organized into week wise schedule where learners can have access to highly multimedia enriched videos along e-text, reading material, references and online assessments.



Prof. T. P. Sarma  
Educational Qualification M.Sc. , Ph.D. (Mathematics) from University of Delhi

Areas of Work Mathematics Education at School level Development of Teaching Materials, Teacher Training Material, Textual Material Research: Primary Mathematics, Mathematics Education, Mathematics.

### Groups

New conversation

My groups

Recent groups

Favorite groups

Starred conversations

"Discussion forum for Mathematics XI Part-I"

**Conversations** 4

About

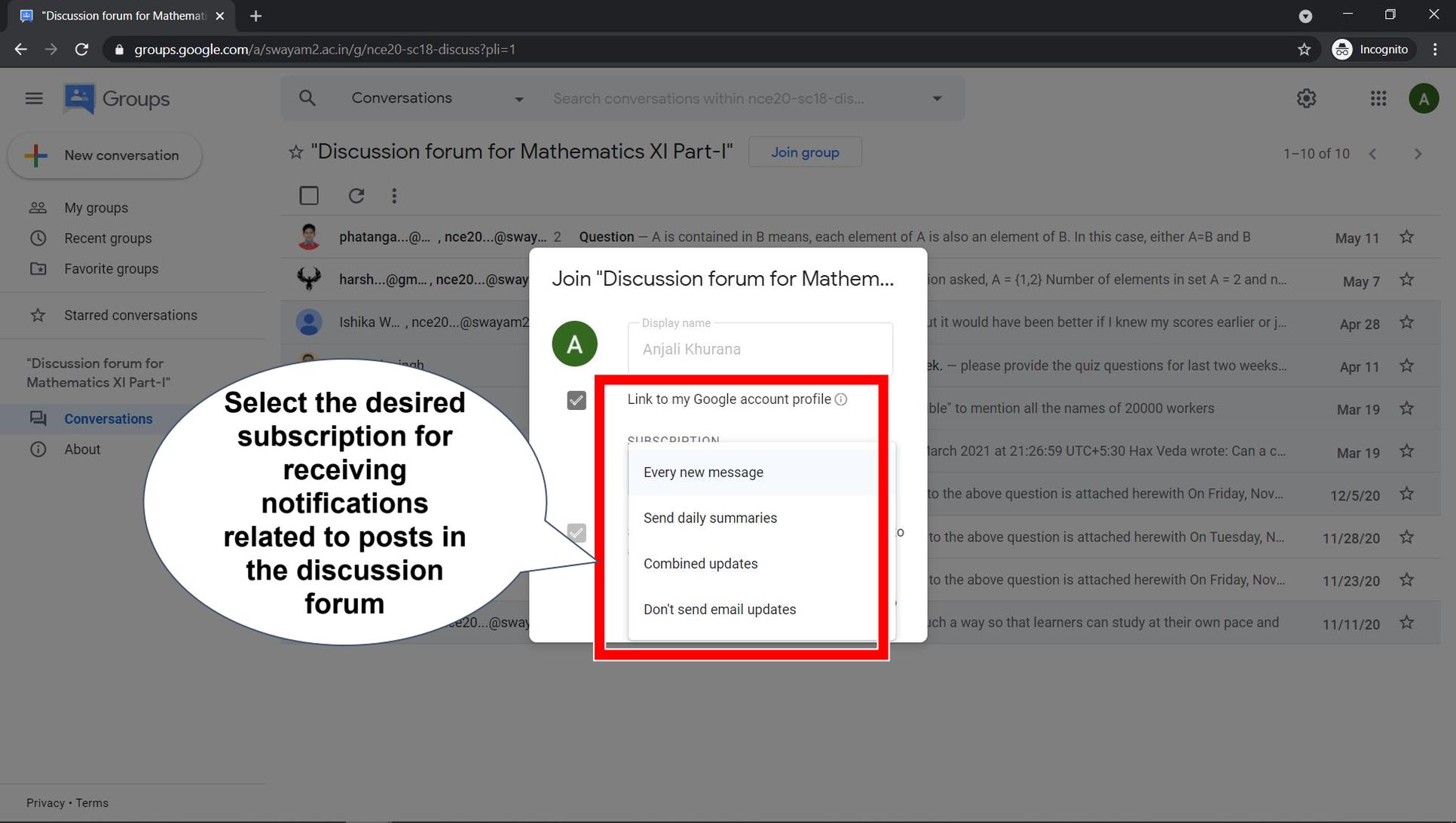
Conversations Search conversations within nce20-sc18-dis...

## ☆ "Discussion forum for Mathematics XI Part-I" [Join group](#)

1-10 of 10

Become a member of "Discussion forum for Mathematics XI Part-I"

- phatanga...@... , nce20...@sway... 2 **Question** – A is contained in B means, each element of A is also an element of B. In this case, either  $A=B$  and B May 11 ☆
- harsh...@gm... , nce20...@swaya... 2 **Can't a null set be counted as an element?** – In the question asked,  $A = \{1,2\}$  Number of elements in set  $A = 2$  and n... May 7 ☆
- Ishika W... , nce20...@swayam2.... 3 **Self Assesment Scores** – Thank you for your response. But it would have been better if I knew my scores earlier or j... Apr 28 ☆
- prakash singh regarding providing of Quiz(test) question for last two week. – please provide the quiz questions for last two weeks... Apr 11 ☆
- harsh...@gmail.com 20,000 workers – At 7:40 Of the AV. Why won't it be "possible" to mention all the names of 20000 workers Mar 19 ☆
- harsh...@gmail.com 2 Set\_Prime numbers? – At 5:05 of the AV... On Friday, 19 March 2021 at 21:26:59 UTC+5:30 Hax Veda wrote: Can a c... Mar 19 ☆
- nce20...@swayam2.ac.in 2 **Question of the Day** – Dear Learners, The correct answer to the above question is attached herewith On Friday, Nov... 12/5/20 ☆
- nce20...@swayam2.ac.in 2 **Question of the Day** – Dear Learners, The correct answer to the above question is attached herewith On Tuesday, N... 11/28/20 ☆
- nce20...@swayam2.ac.in 2 **Question of the Day** – Dear Learners, The correct answer to the above question is attached herewith On Friday, Nov... 11/23/20 ☆
- narendr...@g... , nce20...@sway... 2 **about timing?** – Dear learner, The course is designed in such a way so that learners can study at their own pace and 11/11/20 ☆



Select the desired subscription for receiving notifications related to posts in the discussion forum

### Join "Discussion forum for Mathem..."



Display name  
Anjali Khurana



Link to my Google account profile ⓘ

- SUBSCRIPTION
- Every new message
  - Send daily summaries
  - Combined updates
  - Don't send email updates



Groups

New conversation

My groups

Recent groups

Favorite groups

Starred conversations

"Discussion forum for Mathematics XI Part-I"

Conversations 4

About

Conversations Search conversations within nce20-sc18-dis...

"Discussion forum for Mathematics XI Part-I" Join group 1-10 of 10

- phatanga...@... , nce20...@sway... 2 Question - A is contained in B means, each element of A is also an element of B. In this case, either  $A=B$  and B May 11
- harsh...@gm... , nce20...@sway... Question asked,  $A = \{1,2\}$  Number of elements in set  $A = 2$  and n... May 7
- Ishika W... , nce20...@swayam2... but it would have been better if I knew my scores earlier or j... Apr 28
- prakash singh ek. - please provide the quiz questions for last two weeks... Apr 11
- harsh...@gmail.com "able" to mention all the names of 20000 workers Mar 19
- harsh...@gmail.com 2 March 2021 at 21:26:59 UTC+5:30 Hax Veda wrote: Can a c... Mar 19
- nce20...@swayam2.ac.in 2 to the above question is attached herewith On Friday, Nov... 12/5/20
- nce20...@swayam2.ac.in 2 to the above question is attached herewith On Tuesday, N... 11/28/20
- nce20...@swayam2.ac.in 2 to the above question is attached herewith On Friday, Nov... 11/23/20
- narendr...@g... , nce20...@sway... ch a way so that learners can study at their own pace and 11/11/20

### Join "Discussion forum for Mathem..."

Display name: Anjali Khurana

Link to my Google account profile

SUBSCRIPTION: Every new message

Subscribe me to email updates when I post to a conversation

Cancel **Join group**

New conversation

"Discussion forum for Mathematics XI Part-I" 30 members

1-10 of 10

- My groups
- Recent group
- Favorite groups
- Starred conversations
- "Discussion forum for Mathematics XI Part-I"
- Conversations 4**
- Members
- About
- My membership settings

# Successfully Joined the Discussion Forum of the Course

harsh...@gm..., nce20...@swayam2.ac.in	question asked, $A = \{1,2\}$ Number of elements in set $A = 2$ and n...	May 11	☆
harsh...@gm..., nce20...@swayam2.ac.in	Self assessment scores Thank you for your response. But it would have been better if I knew my scores earlier or j...	May 7	☆
Ishika W..., nce20...@swayam2.ac.in	Self assessment scores Thank you for your response. But it would have been better if I knew my scores earlier or j...	Apr 28	☆
prakash singh	regarding providing of Quiz(test) question for last two week. – please provide the quiz questions for last two weeks...	Apr 11	☆
harsh...@gmail.com	20,000 workers – At 7:40 Of the AV. Why won't it be "possible" to mention all the names of 20000 workers	Mar 19	☆
harsh...@gmail.com 2	Set_Prime numbers? – At 5:05 of the AV... On Friday, 19 March 2021 at 21:26:59 UTC+5:30 Hax Veda wrote: Can a c...	Mar 19	☆
nce20...@swayam2.ac.in 2	Question of the Day – Dear Learners, The correct answer to the above question is attached herewith On Friday, Nov...	12/5/20	☆
nce20...@swayam2.ac.in 2	Question of the Day – Dear Learners, The correct answer to the above question is attached herewith On Tuesday, N...	11/28/20	☆
nce20...@swayam2.ac.in 2	Question of the Day – Dear Learners, The correct answer to the above question is attached herewith On Friday, Nov...	11/23/20	☆
narendr...@g..., nce20...@swayam2.ac.in 2	about timing? – Dear learner, The course is designed in such a way so that learners can study at their own pace and	11/11/20	☆

# **How to Participate in the Discussion Forum?**

Groups

New conversation

My groups

Recent groups

Favorite groups

Starred conversations

"Discussion forum for Mathematics XI Part-I"

Conversations 4

Members

About

My membership settings



Conversations

Search conversations within nce20-sc18-dis...

"Discussion forum for Mathematics XI Part-I" 30 members



phatanga...@... , nce20...@sway... 2

Question – A is contained in B means, each element



harsh...@gm... , nce20...@swaya... 2

Can't a null set be counted as an element? – In the



Ishika W... , nce20...@swayam2.... 3

Self Assesment Scores – Thank you for your respon



prakash singh

regarding providing of Quiz(test) question for last tw



harsh...@gmail.com

20,000 workers – At 7:40 Of the AV. Why won't it be



harsh...@gmail.com 2

Set\_Prime numbers? – At 5:05 of the AV... On Friday



nce20...@swayam2.ac.in 2

Question of the Day – Dear Learners, The correct an



nce20...@swayam2.ac.in 2

Question of the Day – Dear Learners, The correct an

**Groups**

New conversation

My groups

Recent groups

Favorite groups

Starred conversations

"Discussion forum for Mathematics XI Part-I"

**Conversations** 4

Members

About

My membership settings

Conversations Search conversations within nce20-sc18-dis...

☆ "Discussion forum for Mathematics XI Part-I" 30 members 1-10 of 10

- phatanga...@... , nce20...@sway... 2 Question – A is contained in B means, each element of A is also an element of B. In this case, either  $A=B$  and B May 11 ☆
- harsh...@gm... , nce20...@... element? – In the question asked A = (1, 2) Number of elements in set A = 2 and B = {1, 2, 3} Number of elements in set B = 3. Can you...
- Ishika W... , nce20...@swayam2.ac.in 2 for your res...
- prakash singh for las...
- harsh...@gmail... can't it...
- harsh...@gmail.com ... On Fri...
- nce20...@swayam2.ac.in 2 Dear Learners, The correct...
- nce20...@swayam2.ac.in 2 Question of the Day – Dear Learners, The correc...
- nce20...@swayam2.ac.in 2 Question of the Day – Dear Learners, The correc...
- narendr...@g... , nce20...@sway... 2 about timing? – Dear learner, The course is desig...

**Type the post along with subject**

New conversation in "Discussion forum for Mathematics XI Part-I"

From Anjali Khurana <anjalikhurana7879@gmail.com> Cc

Subject

Sans Serif T A B I U ↻ ☰ ☷ ✕

Post message A 📎 🖼️ 🗑️

**Groups**

New conversation

My groups

Recent groups

Favorite groups

Starred conversations

"Discussion forum for Mathematics XI Part-I"

**Conversations** 4

Members

About

My membership settings

Conversations Search conversations within nce20-sc18-dis...

- "Discussion forum for Mathematics XI Part-I" 32 members
- phatanga...@... , nce20...@sway... 2 Question – A is contained in B means, each elem
- harsh...@gm..., nce20...@swaya... 2 Can't a null set be counted as an element? – In t
- Ishika W... , nce20...@swayam2.... 3 Self Assesment Scores – Thank you for your res
- prakash singh regarding providing of Quiz(test) question for las
- harsh...@gmail.com 20,000 workers – At 7:40 Of the AV. Why won't it
- harsh...@gmail.com 2 Set\_Prime numbers? – At 5:05 of the AV... On Fri
- nce20...@swayam2.ac.in 2 Question of the Day – Dear Learners, The correc
- nce20...@swayam2.ac.in 2 Question of the Day – Dear Learners, The correc
- nce20...@swayam2.ac.in 2 Question of the Day – Dear Learners, The correc
- narendr...@g..., nce20...@sway... 2 about timing

**New conversation in "Discussion forum for Mathematics XI Part-I"**

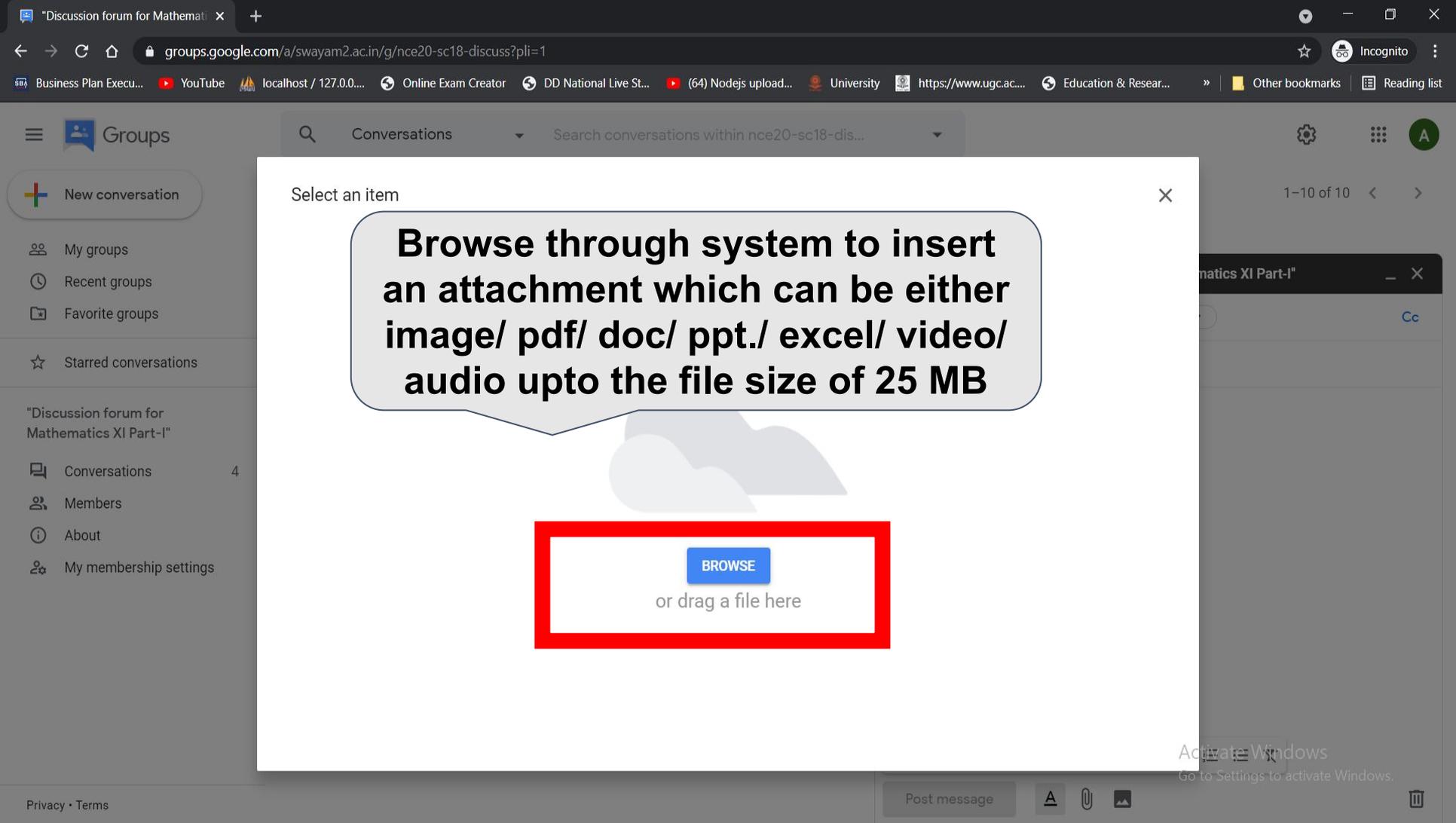
From Anjali Khurana <anjalikhurana7879@gmail.com> Cc

Subject

Post message

Rich text editor: Bold, Italic, Underline, Text color, Background color, Link, Unlink, Undo, Redo, Text color, Background color, Link, Unlink, Undo, Redo

**Add attachment**



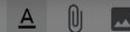
Select an item

**Browse through system to insert an attachment which can be either image/ pdf/ doc/ ppt./ excel/ video/ audio upto the file size of 25 MB**

**BROWSE**

or drag a file here

Post message



Activate Windows  
Go to Settings to activate Windows.

**Groups**

New conversation

My groups

Recent groups

Favorite groups

Starred conversations

"Discussion forum for Mathematics XI Part-I"

**Conversations** 4

Members

About

My membership settings

Conversations Search conversations within nce20-sc18-dis...

- ☆ "Discussion forum for Mathematics XI Part-I" 32 members
- phatanga...@... , nce20...@sway... 2 Question – A is contained in B means, each elem
- harsh...@gm..., nce20...@swaya... 2 Can't a null set be counted as an element? – In t
- Ishika W... , nce20...@swayam2.... 3 Self Assesment Scores – Thank you for your res
- prakash singh regarding providing of Quiz(test) question for las
- harsh...@gmail.com 20,000 workers – At 7:40 Of the AV. Why won't it
- harsh...@gmail.com 2 Set\_Prime numbers? – At 5:05 of the AV... On Fri
- nce20...@swayam2.ac.in 2 Question of the Day – Dear Learners, The correct
- nce20...@swayam2.ac.in 2 Question of the Day – Dear Learners, The correc
- nce20...@swayam2.ac.in 2 Question of the Day – Dear Learners, The correc
- narendr...@g... , nce20...@sway... 2 about timing? – Dear learner, The course is desig

**New conversation in "Discussion forum for Mathematics XI Part-I"**

From Anjali Khurana <anjalikhurana7879@gmail.com> Cc

Subject

**Insert Photo Attachment**

Sans Serif T A B

Post message A U

Activate Windows Go to Settings to activate Windows.

**Groups**

New conversation

My groups

Recent groups

Favorite groups

Starred conversations

"Discussion forum for Mathematics XI Part-I"

**Conversations** 4

Members

About

My membership settings

Conversations Search conversations within nce20-sc18-dis...

- ☆ "Discussion forum for Mathematics XI Part-I" 32 members
- phatanga...@... , nce20...@sway... 2 Question – A is contained in B means, each elem
- harsh...@gm..., nce20...@swaya... 2 Can't a null set be counted as an element? – In t
- Ishika W..., nce20...@swyam2.... 3 Self Assesment Scores – Thank you for your res
- prakash singh regarding providing of Quiz(test) question for las
- harsh...@gmail.com 20,000 workers – At 7:40 Of the AV. Why won't it
- harsh...@gmail.com 2 Set\_Prime numbers? – At 5:05 of the AV... On Fri
- nce20...@swyam2.ac.in 2 Question of the Day – Dear Learners, The correc
- nce20...@swyam2.ac.in 2 Question of the Day – Dear Learners, The correc
- nce20...@swyam2.ac.in 2 Question of the Day – Dear Learners, The correc
- narendr...@g... , nce20...@sway... 2 about timing? – Dear learner, The course is desig

**New conversation in "Discussion forum for Mathematics XI Part-I"**

From Anjali Khurana <anjalikhurana7879@gmail.com> Cc

Subject

**Insert Link**

Sans Serif T A B I U **Activate Windows**  
Go to Settings to activate Windows.

Post message A 📎 🖼️

**Groups**

New conversation

My groups

Recent groups

Favorite groups

Starred conversations

"Discussion forum for Mathematics XI Part-I"

**Conversations** 4

Members

About

My membership settings

Conversations Search conversations within nce20-sc18-dis...

☆ "Discussion forum for Mathematics XI Part-I" 30 members 1-10 of 10

- phatanga...@... , nce20...@sway... 2 Question – A is contained in B means, each element of A is also an element of B. In this case, either  $A=B$  and B May 11 ☆
- harsh...@gm..., nce20...@swaya... 2 Can't a null set be counted as an element? – In the question asked A = {1, 2} Number of elements in set A = 2 and B = {1, 2, 3} Number of elements in set B = 3. So, A is contained in B. Can't a null set be counted as an element? May 11 ☆
- Ishika W..., nce20...@swayam2.... 3 Self Assesment Scores – Thank you for your response. May 11 ☆
- prakash singh regarding providing of Quiz(test) question for last week. May 11 ☆
- harsh...@gmail.com 20,000 workers – At 7:40 Of the AV. Why won't it be 20,000? May 11 ☆
- harsh...@gmail.com 2 Set\_Prime numbers? – At 5:05 of the AV... On Friday May 11 ☆
- nce20...@swayam2.ac.in 2 Question of the Day – Dear Learners, The correct answer is 10. May 11 ☆
- nce20...@swayam2.ac.in 2 Question of the Day – Dear Learners, The correct answer is 10. May 11 ☆
- nce20...@swayam2.ac.in 2 Question of the Day – Dear Learners, The correct answer is 10. May 11 ☆
- narendr...@g course is designed to help you understand the concepts of Mathematics XI Part-I. May 11 ☆

**Post Message after typing doubt/ query or feedback**

New conversation in "Discussion forum for Mathematics XI Part-I"

From Anjali Khurana <anjalikhurana7879@gmail.com> Cc

Subject

Sans Serif T A B I U ↻ ☰ ☷ ✕

Post message A 📎 🖼️ 🗑️

Groups

New conversation

My groups

Recent groups

Favorite groups

Starred conversations

"Discussion forum for Mathematics XI Part-I"

Conversations 4

**Members**

About

My membership settings

Members Search members

Settings Grid Profile A

☆ "Discussion forum for Mathematics XI Part-I" 30 members 1 of 1 < >

Member ↑	Email	Role	Join Date
 vikas.ana...@gmail.com	vikas.anand1998.va@gmail.com	Member	Apr 25, 2021
 sarojk...@gmail.com	sarojkisku100@gmail.com	Member	Apr 25, 2021
 kpune...@gmail.com	kpuneet474@gmail.com	Member	Dec 8, 2020
 harsh...@gmail.com	harsha5expy@gmail.com	Member	Mar 19, 2021
 rdatt...@gmail.com	rdatta1978@gmail.com	Member	Nov 26, 2020
 anjalikh...@gmail.com	anjalikhurana464@gmail.com	Member	Jan 1, 2021
 ritwikp...@gmail.com	ritwikparamita@gmail.com	Member	Jan 5, 2021
 prashan...@gmail.com	prashantdayal25@gmail.com	Member	Nov 3, 2020
 rishabh...@gmail.com	rishabho.n.e.1@gmail.com	Member	Apr 24, 2021
 rajendrad...@gmail.com	rajendradatta66926@gmail.com	Member	Dec 12, 2020
 yusuffa...@gmail.com	yusuffaruqiaziz@gmail.com	Member	May 24, 2021
 narendr...@gmail.com	narendrancm465@gmail.com	Member	Nov 1, 2020
 vctevi...@gmail.com	vctevipul1978@gmail.com	Member	Mar 24, 2021
 vedantd...@gmail.com	vedantdalvi300@gmail.com	Member	Nov 13, 2020

# Thanks

**moocs@ciet.nic.in**