

REPORT ON ONE MONTH MOOC

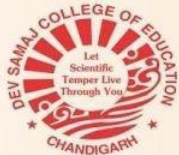
ON

**‘EFFECTIVE PROBLEM SOLVING AND
MATHEMATICAL SKILLS’**

(An initiative by Department of Mathematics, DSCE)

DEV SAMAJ COLLEGE OF EDUCATION

SECTOR 36-B, CHANDIGARH



DEV SAMAJ COLLEGE OF EDUCATION

SECTOR-36 B CHANDIGARH

PRESENTS

MOOC ON 'EFFECTIVE PROBLEM-SOLVING AND MATHEMATICAL SKILLS' (self paced)

**COURSE
STARTS
FROM
27.10.2020**

LEVEL BEGINNERS

COMMITMENT FOUR WEEKS, 3-5 HOURS PER WEEK



ABOUT THE COURSE

Problem-solving is not only a goal of learning mathematics but also a major means of doing so."(NCTM, 2000, p. 52)

Every student has the right to access effective mathematics education. Every student can become a successful learner of mathematics.

The importance of problem-solving in learning mathematics comes from the belief that mathematics is primarily about reasoning, not memorization. Problem-solving allows students to develop understanding and explain the processes used to arrive at solutions, rather than remembering and applying a set of procedures. It is through problem-solving that students develop a deeper understanding of mathematical concepts, become more engaged, and appreciate the relevance and usefulness of mathematics.

This course contain math—no avoiding that! This course is designed to teach learners the basic math they need in order to solve problems in a more realistic way and also created for learners who have basic math skills. 'Effective Problem-Solving and Mathematics skills' introduces the core math with no extra complexity, introducing unfamiliar ideas and math symbols one-at-a-time. Learners who complete this course will master the vocabulary, notation, concepts, and algebra rules that all learners must know before moving on to more advanced material of Mathematics.

- PLATFORM : GOOGLE CLASSROOM
- E-CERTIFICATE WILL BE PROVIDED TO THE PARTICIPANTS ON THE COMPLETION OF THE COURSE

COURSE OBJECTIVES

Upon completing this course, you will be able to:

- Choose and apply appropriate problem solving processes and methods
- Identify common obstacles to effective problem solving
- Assess major conceptual blocks and significant situational challenges
- Apply concepts to enhancing personal development
- Explain the key elements of problem solving
- Enjoyment of an intellectual challenge
- The skills to solve problems that help them to investigate and understand the world

TOPICS INCLUDE

- Problem Solving Skills
- Set theory, including Venn diagrams
- Properties of the real number line
- Interval notation and algebra with inequalities
- Uses for summation and Sigma notation
- Math on the Cartesian (x,y) plane, slope and distance formulas
- Graphing and describing functions
- Exponents
- Probability theory
- Statistics

Get yourself registered at:
<https://forms.gle/Wx3BH92w3Q3qche89>



Chief Patron
Dr. (Mrs.) Agnese Dhillon
Principal

Course Convener and Instructor
Dr. Kiranjit Kaur
Associate Professor of Mathematics

Organizing Secretary
Ms. Shivani Sharma
Assistant Professor of Computer Education

About the Course

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- Every student has the right to access effective mathematics education.
- Every student can become a successful learner of mathematics.

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This course contain math—no avoiding that! This course is designed to teach learners the basic math you will need in order to solve problems in a more realistic way and was created for learners who have basic math skills. ‘Effective Problem-Solving and Mathematics skills’ introduces the core math with no extra complexity, introducing unfamiliar ideas and math symbols one-at-a-time. Learners who complete this course will master the vocabulary, notation, concepts, and algebra rules that all learners must know before moving on to more advanced material of Mathematics.

Critical thinking – the application of scientific methods and logical reasoning to problems and decisions – is the foundation of effective problem solving and decision making. Critical thinking enables us to avoid common obstacles, test our beliefs and assumptions, and correct distortions in our thought processes. Gain confidence in assessing problems accurately, evaluating alternative solutions, and anticipating likely risks. Learn how to use analysis, synthesis, and positive inquiry to address individual and organizational problems and develop the critical thinking skills needed in today’s turbulent times.

Problem-solving in mathematics supports the development of:

- The ability to think creatively, critically, and logically
- The ability to structure and organize
- The ability to process information
- Enjoyment of an intellectual challenge
- The skills to solve problems that help them to investigate and understand the world

Course Objectives

1. Choose and apply appropriate problem solving processes and methods
2. Identify common obstacles to effective problem solving
3. Assess major conceptual blocks and significant situational challenges
4. Apply concepts to enhancing personal development
5. Explain the key elements of problem solving

DETAILS OF THE COURSE:

The course was organised by Dev Samaj College of Education, Sector 36-B, Chandigarh on Google Classroom as a Learning Management System. The registration process was started by filling the Registration Form (Link: <https://forms.gle/bSRLn5QkQY29UHqg8>) given on the brochure. Total **47 candidates** were enrolled through the registration process and joined a WhatsApp group even (Link: <https://chat.whatsapp.com/Bqk7zko05S8CQzR6aeUWBN>) through which they received all necessary and relevant information about the course.

The Overall course was delivered via Asynchronous Mode. The course was further divided into day wise modules. Day wise content followed by Weekly Quiz was provided to participants for each day. Overall Feedback was also taken from the students in Feedback Form. Dr. Kiranjit Kaur Associate Professor in Education (Teaching of mathematics), Course coordinator and instructor of the course has Prepared week wise content in form of ppts, pdfs, videos word documents and delivered it through Multimedia. Participants were allowed to discuss their doubts on Discussion Forums. Announcements were made as per the requirement in the announcement section as well as in the WhatsApp Group.

The fulfilling criterion for getting the certificate was the completion of Quizzes.

WEEKLY SCHEDULE OF ONE MONTH MOOC ON “EFFECTIVE PROBLEM SOLVING AND MATHEMATICAL SKILLS”

(27.10.2020-22.11.2020)

Week 1 Introduction

The screenshot shows the Google Drive interface. The top navigation bar includes the Drive logo, a search bar with the text "Search in Drive", and utility icons for help, settings, and app launcher. The user's name "Google K" is visible in the top right. The left sidebar contains navigation options: "New", "Priority", "My Drive", "Shared drives", "Shared with me", "Recent", "Starred", and "Trash". The main content area shows the breadcrumb path "My Drive > Mool Mathematics > Introductory". Below this, a table lists the files in the folder:

Name	Last modified
Principals message (MOOC on Mathematics).docx	Oct 24, 2020 me
About the course.docx	Oct 24, 2020 me
3.About the course.pdf	Oct 24, 2020 me
2.Introduction of the course	Oct 24, 2020 me
1.Principals message (MOOC on Mathematics).pdf	Oct 24, 2020 me

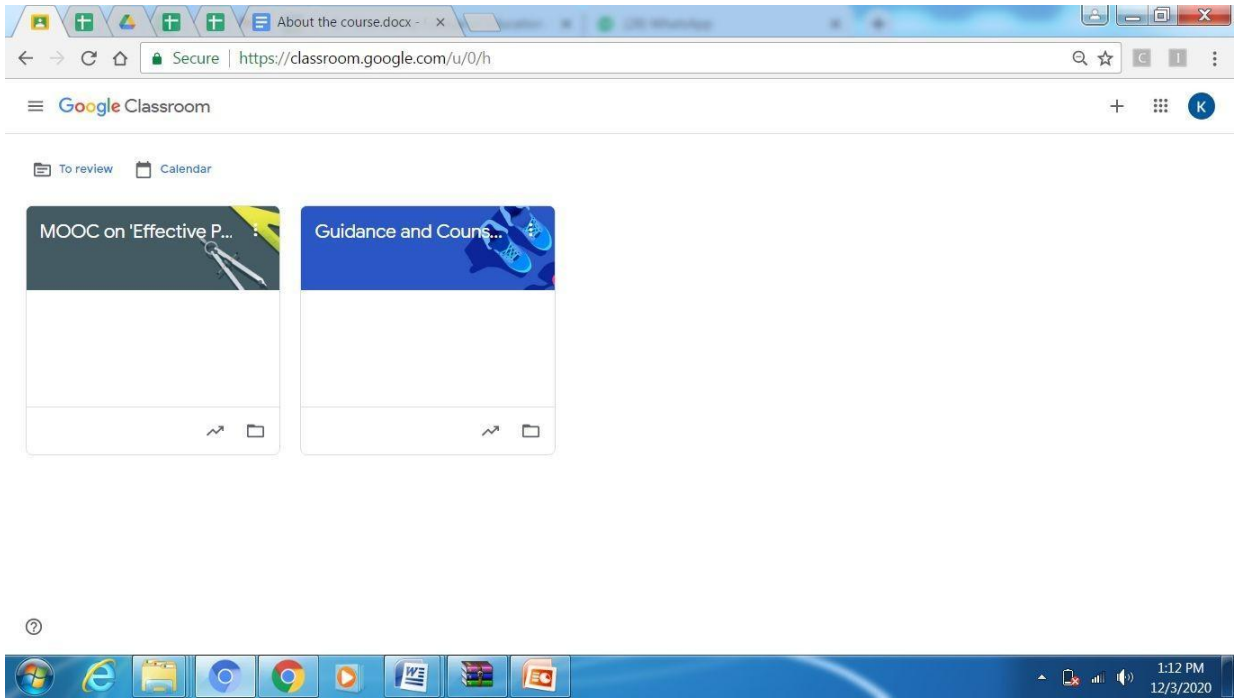
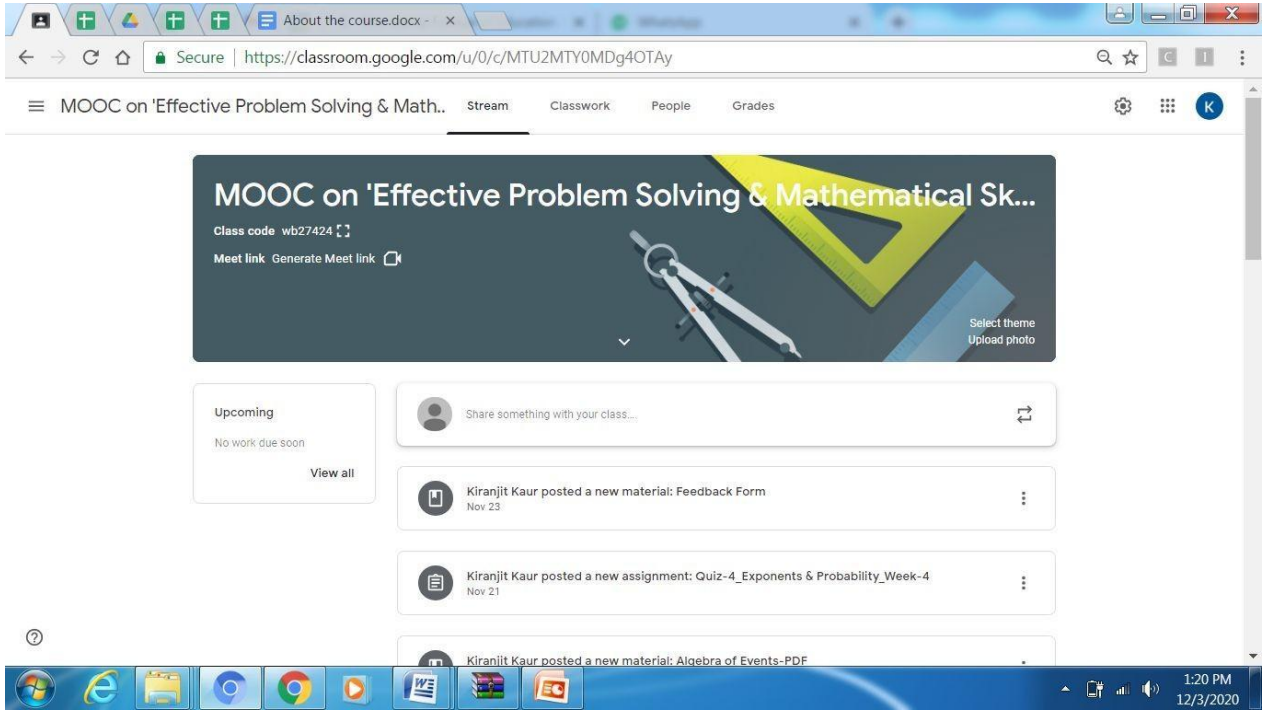
Week Wise content

WEEK-1	<ul style="list-style-type: none">● Problem Solving Skills<ol style="list-style-type: none">1. Mathematics as a problem solving activity(PPT)2. Polya's principles of problem solving (PPT)3. Problem solving Strategies for mathematics(PDF)● Set theory, including Venn diagrams<ol style="list-style-type: none">1. Sets(PDF)2. Sets Basics(Video)3. Medical Testing Example(Video)4. Venn Diagram(PDF)● Quiz on Problem solving skills and Sets
WEEK-2	<ul style="list-style-type: none">● Graphing and describing functions<ol style="list-style-type: none">1. Relations (PDF)2. Functions as Engines (Video)3. Functions (PDF)4. Increasing and Decreasing Functions(Video)5. Graphs of Functions on Cartesian Plane(Video)● Properties of the real number line<ol style="list-style-type: none">1. Infinite world of numbers (Video)2. Absolute value (PDF)3. Numbers absolute value (Video)● Interval notation and algebra with inequalities<ol style="list-style-type: none">1. Algebra with inequalities(Video)2. Intervals (Video)● Quiz on Relations Functions and Interval notation

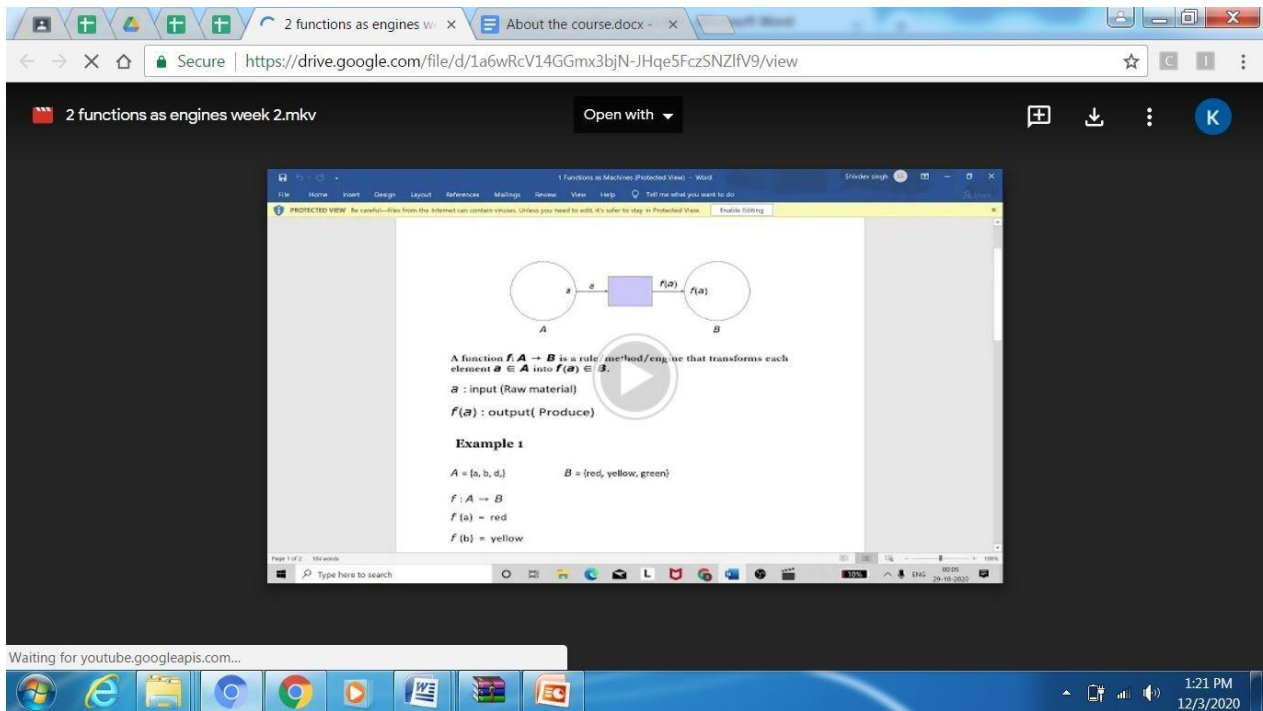
<p>WEEK-3</p>	<ul style="list-style-type: none"> ● Math on the Cartesian (x,y) plane, slope Intercept and point Intercept Form and distance formulas <ol style="list-style-type: none"> 1. Distance formula(PDF) 2. Distance formula(Video) 3. Point Slope form and slope Intercept form(PDF) 4. Point Slope form and slope Intercept form(Video) ● Sigma Notation <ol style="list-style-type: none"> 1. Sigma Notation(PDF) 2. Sigma Notation(Video) ● Statistics <ol style="list-style-type: none"> 1. Statistics (Basics) 2. Statistics (Central Tendency)(Video) ● Quiz on the Cartesian (x,y) plane, slope Intercept and point Intercept Form and distance formulas
<p>WEEK-4</p>	<ul style="list-style-type: none"> ● Exponents <ol style="list-style-type: none"> 1. Exponents (Video) 2. Fast Growth Slow Growth Exponents (Word Document) 3. Laws of Exponents (PDF) 4. Laws of Exponents (Video) 5. Comparison of large and Small numbers(Video) 6. Comparison of large and Small numbers (PDF) ● Probability theory <ol style="list-style-type: none"> 1. Probability Basics (PDF) 2. Probability Definition (PDF) 3. Sample Space Basics (PDF) 4. Occurrence of an Event (PDF) 5. Probability Basics (Word) 6. Basic Probability (Video)

	<ol style="list-style-type: none">7. Basic Probability definition (Word)8. Joint Probability (Video)9. Algebra of Events (Video) <ul style="list-style-type: none">● Quiz on Exponents and Probability
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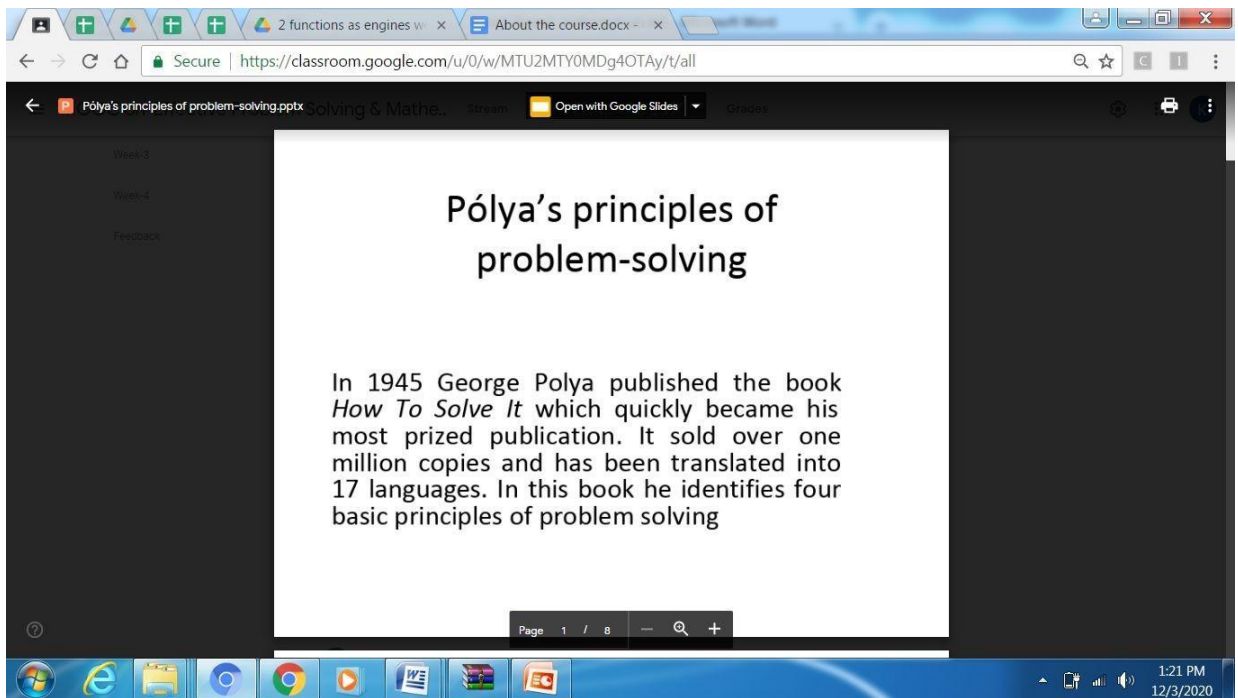
SCREENSHOTS



MULTIMEDIA CONTENT



The screenshot shows a video player interface. The video content is a document titled "1 Functions in Mac/nes (Protected View) - Word". The document contains a diagram of a function $f: A \rightarrow B$ and a definition of a function. The diagram shows two circles, A and B, with an arrow labeled f pointing from A to B. Below the diagram, the text reads: "A function $f: A \rightarrow B$ is a rule/method/engine that transforms each element $a \in A$ into $f(a) \in B$. a : input (Raw material) $f(a)$: output (Produce)". An example is provided: "Example 1: $A = \{a, b, d\}$ $B = \{red, yellow, green\}$. $f: A \rightarrow B$, $f(a) = red$, $f(b) = yellow$ ". The video player has a play button in the center. The browser address bar shows the URL: <https://drive.google.com/file/d/1a6wRcV14GGmx3bjN-JHqe5FcZSNZfV9/view>. The Windows taskbar at the bottom shows the time as 1:21 PM on 12/3/2020.



The screenshot shows a Google Slides presentation titled "Pólya's principles of problem-solving". The slide content reads: "Pólya's principles of problem-solving. In 1945 George Polya published the book *How To Solve It* which quickly became his most prized publication. It sold over one million copies and has been translated into 17 languages. In this book he identifies four basic principles of problem solving". The slide is on page 1 of 8. The browser address bar shows the URL: <https://classroom.google.com/u/0/w/MTU2MTY0MDg4OTAy/t/all>. The Windows taskbar at the bottom shows the time as 1:21 PM on 12/3/2020.

2 functions as engines w... x About the course.docx - x

Secure | <https://classroom.google.com/u/0/w/MTU2MTY0MDg4OTAy/t/all>

Venn Diagram.pdf Active Problem Solving & Mathe... Open with Google Docs Grades

Week 3
Week 4
Feedback

Venn Diagram

Most of the relationships between sets can be represented by means of diagrams which are known as Venn Diagrams. Venn diagrams are named after the English logician John Venn. These diagrams consist of rectangles and closed curves usually circles. The universal set is represented by a rectangle and its subsets by circles.

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1:22 PM
12/3/2020

WEEKLY CONTENT SCREENSHOTS

Introduction of Course

The screenshot shows a Google Classroom page for a course titled "MOOC on 'Effective Problem Solving & Math...". The page is viewed from the "Classwork" tab. On the left, a sidebar lists "All topics" with "Introduction" selected, followed by "Week-1", "Week-2", "Week-3", "Week-4", and "Feedback". The main content area displays the "Introduction" section with three items: "Principal's Message" (Posted Oct 24), "Introduction of the Course-Video" (Posted Oct 24), and "About the Course-PDF" (Posted Oct 24). Below this is the "Week-1" section with two items: "Mathematics as a Complex Problem Solving ..." (Posted Oct 28) and "Polya's Principles of Problem Solving-PPT" (Posted Oct 28). The Windows taskbar at the bottom shows the time as 1:23 PM on 12/3/2020.

WEEK-1

The screenshot shows the same Google Classroom page, but now the "Week-1" section is expanded. The "Introduction" section is partially visible at the top. The "Week-1" section contains eight items: "Mathematics as a Complex Problem Solving ..." (Posted Oct 28), "Polya's Principles of Problem Solving-PPT" (Posted Oct 28), "Problem Solving Strategies for Mathematics..." (Posted Oct 28), "Set Basics-Video" (Posted Oct 29), "Set Medical Testing Example-Video" (Posted Oct 29), "Set-PDF" (Posted Oct 30), "Venn Diagram-PDF" (Posted Oct 30), and "Problem-solving and Sets_Week-1 Quiz-1" (Edited Nov 12). The "Week-2" section is partially visible at the bottom. The Windows taskbar at the bottom shows the time as 1:24 PM on 12/3/2020.

WEEK-2

The screenshot shows a Google Classroom interface for a course titled "MOOC on 'Effective Problem Solving & Mathematical...". The current view is "Classwork" for "Week-2". The page lists the following resources:

Resource Name	Posted/Edited Date
Functions as Engines-Video	Posted Nov 2
Function Basics-PDF	Edited Nov 3
Relation Basics-PDF	Posted Nov 2
Increasing & Decreasing Functions-Video	Posted Nov 3
Graphs of Functions on Cartesian Plane-Vid...	Posted Nov 4
Infinite World of Numbers-Video	Posted Nov 4
Absolute Value-PDF	Posted Nov 5
Numbers Absolute Value-Video	Posted Nov 5
Algebra with Inequalities-Video	Posted Nov 6
Intervals-Video	Posted Nov 6

The Windows taskbar at the bottom shows the time as 1:26 PM on 12/3/2020. The taskbar includes icons for Windows, Edge, File Explorer, Google, YouTube, Word, and other applications.

WEEK-3

MOOC on 'Effective Problem Solving & Mathematical... Stream Classwork People Grades

Week-3

- Introduction to Cartesian Plane-Video Posted Nov 9
- Distance Formula-Video Posted Nov 9
- Distance Formula-PDF Posted Nov 10
- Point Slope Form & Slope Intercept Form-Vid... Posted Nov 10
- Point slope form amd slope intercept form- ... Posted Nov 10
- Sigma Notation-PDF Posted Nov 11
- Sigma Notation-Video Posted Nov 11
- Statistics Basics-PDF Posted Nov 12
- Statistics (Central Tendency)-Video Posted Nov 12
- Quiz-3_Cartesian Plane & Statistics_Week-3 Posted Nov 13

1:26 PM 12/3/2020

WEEK-4

MOOC on 'Effective Problem Solving & Mathematical... Stream Classwork People Grades

Week-4

- Exponents-Video Posted Nov 16
- Fast Growth Slow Growth Exponents-PDF Posted Nov 16
- Laws of Exponents-PDF Edited Nov 16
- Laws of Exponents-Video Posted Nov 17
- Comparison of Large & Small-PDF Posted Nov 17
- Comparison of Large & Small Numbers-Video Posted Nov 17
- Probability Basics-PDF Posted Nov 18
- Probability Definition-PDF Posted Nov 18
- Sample Space of Probability-PDF Posted Nov 18
- Occurrence of an Event Probability-PDF Posted Nov 19

1:26 PM 12/3/2020

PARTICIPANTS LIST

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List of Participants to whom CERTIFICATES AWARDED
After completion of all the quizzes

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FEEDBACK regarding (Do you want such type of courses to be conducted by the Institution from time to time and why?)

Name (Complete Name)	Name of The Institution (Complete Name of the Institute)	Do you want such type of courses to be conducted by the Institution from time to time and why?
MANISHA	Dev Samaj College of Education Sector-36, Chandigarh	Yes , To learn something new facts
Madhvi	Dev samaj College of education sector 36 Chandigarh	It was very interesting and i learnt so many new things.
Megha Sood	Dev Samaj College Of Education Sector 36 B Chandigarh	Yes. They help us to learn some basic things which are beneficial for the future.
Gurpreet Kaur	Sadbhavna College of Education for Women, Raikot, Ludhiana.,	Absolutely Yes 😊 Such courses are so interesting and engaging..I thoroughly enjoyed the whole Session. Lecture videos and notes were too good .. Everything was so well planned.. I am looking forward for more of such courses especially in Science Subject.Thank You 👍
Bhargvi singh	Dev samaj college of education for women	Yes I want such type of course conducted by the institution from time to time because this type of course developes our skills and increases our confidence
Disha Mehra	Dev Samaj College of Education, Sec-36, Chandigarh	Yes
Nitu Garg	Dev Samaj College of Education Sector -36 Chandigarh	Yes, because in this way students can learn new skills without going anywhere.
Ruby	Dev Samaj College of Education Sector-36B Chandigarh	Yes, because it improves my different skills.

Neelam kumari	Dev Samaj College Of Education 36-B Chandigarh	Yes, such type of courses should be conducted time to time as these courses are beneficial to us not only for future exams but for dealing day to day situations.
Maleeha	Dev Samaj College of Education, Sec-36B, Chandigarh	Yes, to gain more knowledge
Meena Rani	I. S Dev Samaj Senior Secondary School Sector 21-C Chandigarh	Yes
Ankita Sharma	Dev samaj college of education sec 36 b chandigarh	Yes as it keeps me conncted to my studies.
JYOTI VIKRANT PALNI	Dev Samaj college of education sec 36 Chandigarh	Yes,it enhances our knowledge
Navneet Kaur	Dev Samaj College of Education Sector-36 Chandigarh	Yes
Barkha Kharbanda	Dev Samaj college of education sector 36 Chandigarh	Such kind of course should be conducted more often it helps in improving our knowledge and clearing our concepts
Anjali	Dsce-36b, chd	No
Parul Dhiman	Dev Samaj College of Education, Sector-36, Chandigarh	Yes
PRATIKSHA SHARMA	DEV SAMAJ COLLEGE OF EDUCATION 36	Yes for more learning
Rajni Gupta	Dev Samaj college of Education, Sec 36B, Chandigarh	yes ofcourse, it is very useful for us.
Anjali Sharma	Dev Samaj College of Education Sector 36 Chandigarh	Yes, because such type of courses helps us to clear our basics of the subject and also these type of courses are more experimental and innovative. Thank you Dr. Kiranjit ma'am and Ms. Shivani ma'am for sharing your gift of teaching with us!

USHA KUMARI	Dev smaj college of education sec 36 Chandigarh	Yeah of course I want such type of course should be conduct because being a teacher these courses enhance our knowledge. And knowledge is the most powerful tool for a good teacher.
PRASHASTI SINGH	PRASHASTI SINGH	Sure!
Akanksha pandey	Dev samaj college of education	Yes
Nidhi Sharma	Dev Samaj College of Education	Yes , it improves our knowledge to a great extent .
NEHA KUMARI	DEV SAMAJ COLLEGE OF EDUCATION , SECTOR-36	YES , I WANT SUCH TYPE OF COURSE TO BE CONDUCTED BY INSTITUTION FROM TIME TO TIME BECAUSE IT INCREASE OUR KNOWLEGDE
Amita Bhandral	Dev Samaj college of education Chandigarh Sector 36	Yes it's very helpful
Shivani Singh	Dev samaj college of education sector 36 chandigarh	Yes because such courses are very informative.
Ms. Kanika Mehta	Dev Samaj College of Education sector 36 Chandigarh	Yes
Priteeka	Dev samaj college of education, sec-36B, Chandigarh	Yes, of course i would like to attend some more course like this..
Pooja Rani	Dev Samaj College Chandigarh	Yes, these courses help updating the knowledge
Anuradha	Dev Samaj College of Education, Sec-36B Chandigarh	Yes, because these courses helps to improve knowledge
Anjali	Dev Samaj College of Education, Sec-36B CHD	Yes

FEEDBACK

1 to 5=Excellent to Average

Name of the Participant	Name of The Institution (Complete Name of the Institute)	Rate the Course on the basis of the Theme of the Course.	Rate the Resource Person on the basis of the Content Delivery.	Rate the Course on the basis of Content of the Course.	Rate the Course on the basis of Technical Arrangements.	Course has improved my knowledge of the subject.	The Course Content met with my expectations.	The Lecture sequence of the course was well planned.	Resource Person was very supportive throughout the Course.	Resource Person explained the content very effectively.	Rate the Course on its Overall impact.
MANISHA	Dev Samaj College of Education Sector-36, Chandigarh	4	3	3	2	2	1	2	1	1	1
Madhvi	Dev samaj College of education sector 36 Chandigarh	2	1	2	1	2	1	2	2	1	1
Megha Sood	Dev Samaj College Of Education Sector 36 B Chandigarh	1	1	1	1	1	1	1	1	1	1
Gurpreet Kaur	Sadbhavna College of Education for Women, Raikot, Ludhiana.,	1	1	1	1	1	1	1	1	1	1
Bhargvi singh	Dev samaj college of education for women	1	1	2	1	1	1	1	1	1	1
Disha Mehra	Dev Samaj College of Education, Sec-36, Chandigarh	5	5	4	5	5	4	5	5	4	4
Nitu Garg	Dev Samaj College of Education Sector -36 Chandigarh	1	1	1	1	1	1	1	1	1	1
Ruby	Dev Samaj College of Education Sector-36B Chandigarh	4	5	4	5	5	4	4	4	5	5
Neelam kumari	Dev Samaj College Of Education	1	1	1	1	2	2	2	1	1	1

	sec 36 Chandigarh										
PRASHAS TI SINGH	PRASHAS TI SINGH	2	1	2	1	1	1	2	1	1	1
Akanksha pandey	Dev samaj college of education	4	5	4	4	5	4	4	5	5	4
Nidhi Sharma	Dev Samaj College of Education	5	5	4	3	4	4	5	4	3	4
NEHA KUMARI	DEV SAMAJ COLLEGE OF EDUCATI ON, SECTOR-3 6	5	5	5	5	5	5	5	5	5	5
Amita Bhandral	Dev Samaj college of education Chandigarh Sector 36	1	1	1	1	1	1	1	1	1	1
Shivani Singh	Dev samaj college of education sector 36 chandigarh	2	2	2	2	2	2	2	1	2	1
Ms. Kanika Mehta	Dev Samaj College of Education sector 36 Chandigarh	4	4	3	3	4	3	3	3	4	3
Priteeka	Dev samaj college of education, sec-36B, Chandigarh	1	1	1	1	1	2	1	1	2	2
Pooja Rani	Dev Samaj College Chandigarh	1	1	1	3	1	1	1	1	1	1
Anuradha	Dev Samaj College of Education, Sec-36B Chandigarh	1	1	1	1	1	1	1	1	1	1
Anjali	Dev Samaj College of Education, Sec-36B CHD	5	5	1	1	1	1	1	1	1	1