



## ICT enabled Teaching Learning Process

### SNMC Virtual Campus

SNMC virtual campus (<https://snmcvirtual.online>) is the LMS platform of our college. This moodle page acts as a highly supporting system to our academic system. The website consists of structured course pages for UG and PG programmes. The course pages consists of video lectures for the topics in the syllabus which act as a video repository to all the students.

The screenshot shows the SNMC Virtual LMS interface. The browser address bar displays <https://snmcvirtual.online/course/index.php?categoryid=45>. The page header includes the SNMC Virtual logo, a user profile for 'My Courses', and the language 'English (en)'. The main content area lists three courses for the 3rd Semester M.Sc. Physics:

- 3rd Semester M.Sc. Physics Paper 3**: Atomic and Molecular Physics. Teacher: DR. URMILA K S, Teacher: Dr. Lakshmi S Bose.
- 3rd Semester M.Sc. Physics paper 2**: Computational Physics. Teacher: NAMITH NAVAKRISHNAN, Teacher: Dr. Lakshmi S Bose.
- 3rd Semester M.Sc. Physics Paper 1**: (Topic not fully visible).

The screenshot shows a detailed course page for 'Curve Fitting'. The page header includes the SNMC Virtual logo, a user profile for 'My Courses', and the language 'English (en)'. The main content area lists the following items:

- Curve Fitting**: Lesson includes:
  1. Introduction to Curve Fitting
  2. Fitting a Straight Line
  3. Fitting a Parabola
  4. Fitting an Exponential function
  5. Fitting a power function
- Assignment on Curve Fitting**
- Introduction to Finite Difference Operators**
- Newton's Forward Interpolation Formula**
- Newton Backward Interpolation Formula**
- Concept of Divided Difference**
- Newtons General Divided Difference Formula**
- Study Materials**
- Curve Fitting**



The screenshot displays the 'Study Materials' section of the SNMC Virtual platform. The interface includes a top navigation bar with 'SNMC Virtual', 'My Courses', and 'English (en)'. A list of materials is shown, each with an expandable icon, a title, and an 'Edit' button. The materials include:

- Curve Fitting
- Introduction to finite difference operators
- Problems on Curve Fitting-Shanker Rao
- Newton's Forward interpolation Formula
- Problems from the section "Newton's Forward Interpolation Formula"
- Newton Backward Interpolation Formula
- Problems-Newton Backward Interpolation

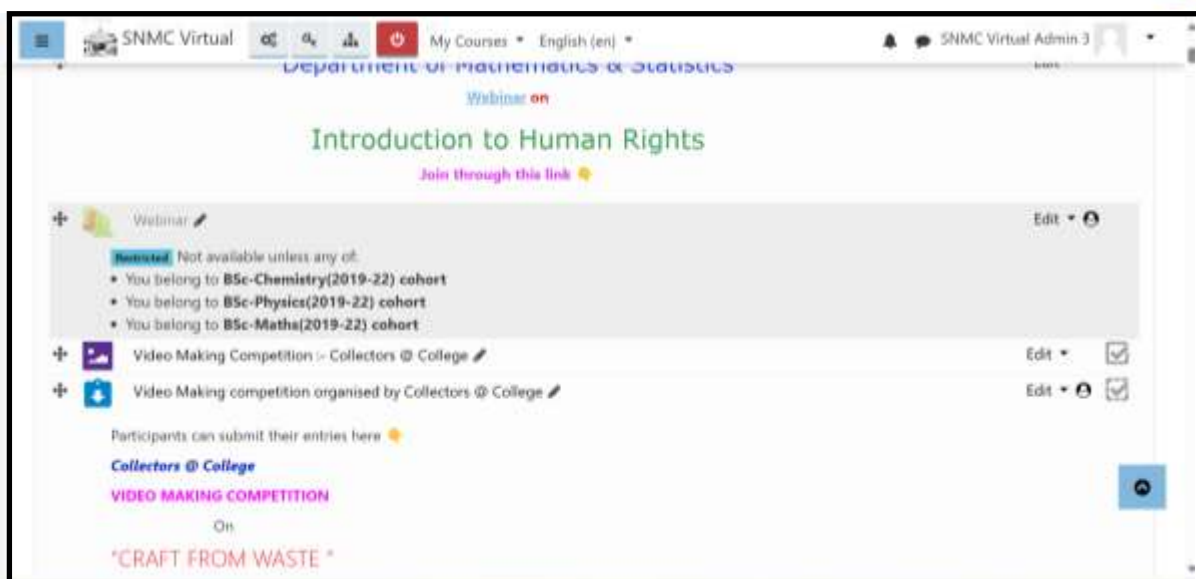
At the bottom right, there is a button labeled '+ Add an activity or resource'.

The screenshot shows a video lecture titled 'Fitting a Straight Line' within the SNMC Virtual interface. The video player displays handwritten mathematical derivations for finding the best-fit line. The equations shown are:

$$c_1 = \frac{\sum_{i=1}^n x_i y_i - \frac{1}{n} (\sum_{i=1}^n x_i) (\sum_{i=1}^n y_i)}{\sum_{i=1}^n x_i^2 - \frac{1}{n} (\sum_{i=1}^n x_i)^2}$$
$$c_2 = \frac{\sum_{i=1}^n y_i - c_1 \sum_{i=1}^n x_i}{n}$$

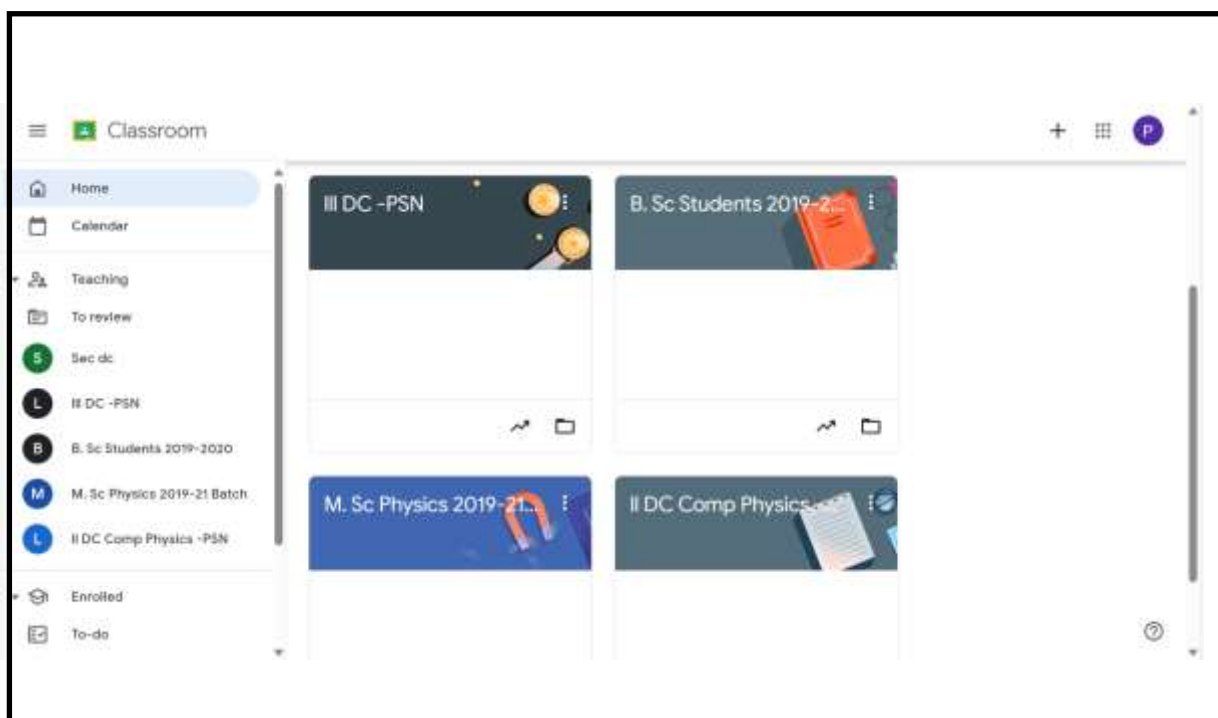
Below the video player, there are navigation buttons numbered 1 through 5.

Besides acting as a support system,snmcvirtual also acts as an assessment tool in the evaluation process. Students are given assignments,quizzes and test papers in descriptive mode using the platform. In addition to this, our moodle platform acted as an efficient system in teaching and learning process during the covid times. Also we were able to conduct several co curricular activities through the system to an extent.



## Google Classroom

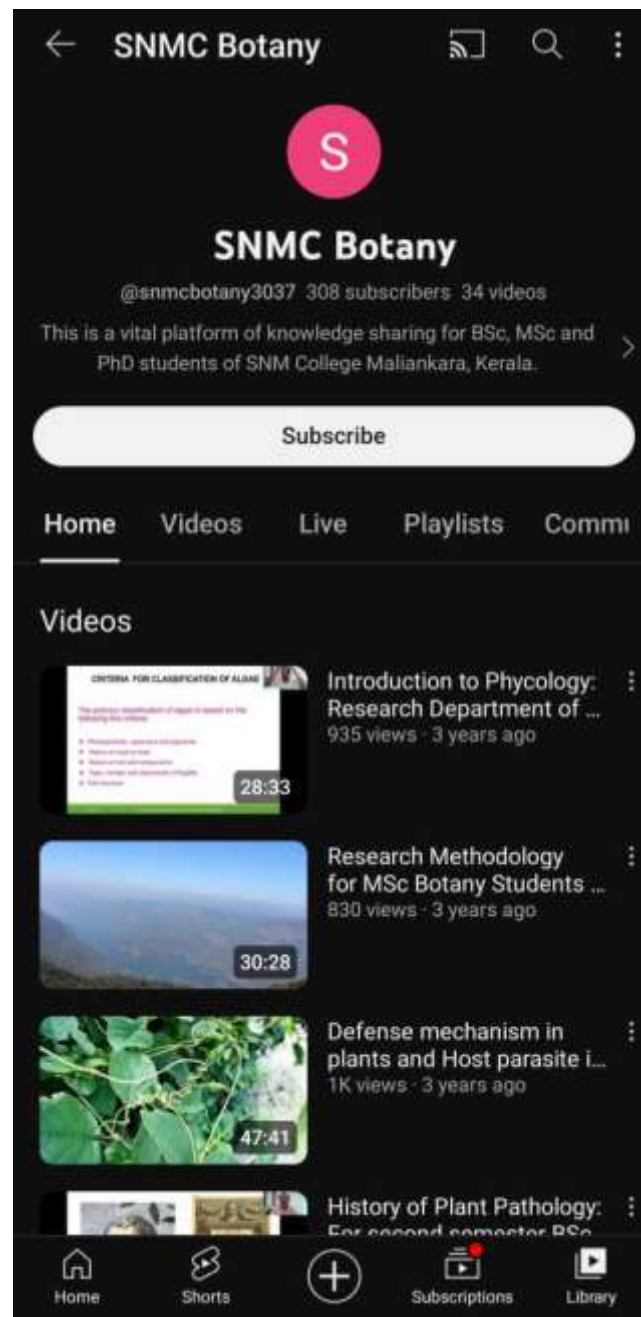
Google classrooms are also used as a supplementary system in addition to virtual platform for giving online resources to students.





## Youtube Channel

Youtube channels are another effective tool for providing online resources. Faculty of SNM college have several e contents developed in this platform.





S Weather and climate, IV semester MSc Botany  
scope of climatology

- © The global climate change and the vulnerability of the biophysical environment to the various climate-related hazards have significant implications to the components of terrestrial and aquatic ecosystems.
- © It is therefore becomes necessary to treat the environmental problems holistically.
- © In other words problem solving in environmental issues has to adopt both interdisciplinary and multidisciplinary approach.
- © Generally climatic elements have significant influence on the ecological parameters studied in biogeography

7:41 / 24:21 YouTube

### Online Platforms-Google Meet,Zoom

Online platforms like Google meet and Zoom platforms were used for conducting online sessions. This platform together with SNMC virtual helped us to monitor the attendane of the class in an effective way.

### OBS recordings of Classes

Recordings of classes were also done in covid times which helped the students to compensate the claases in case of internet unavailability.

You are presenting

You're presenting to everyone

Stop presenting

Meeting details

People (10)

You 12:00 PM  
good morning

You 12:00 PM  
HOPE ALL R FINE

BRUNVA TM  
ARVA MADHE  
Manoj Chavhan  
SRADHA KIRGANA  
RAZM\_NADKI

Play (k)

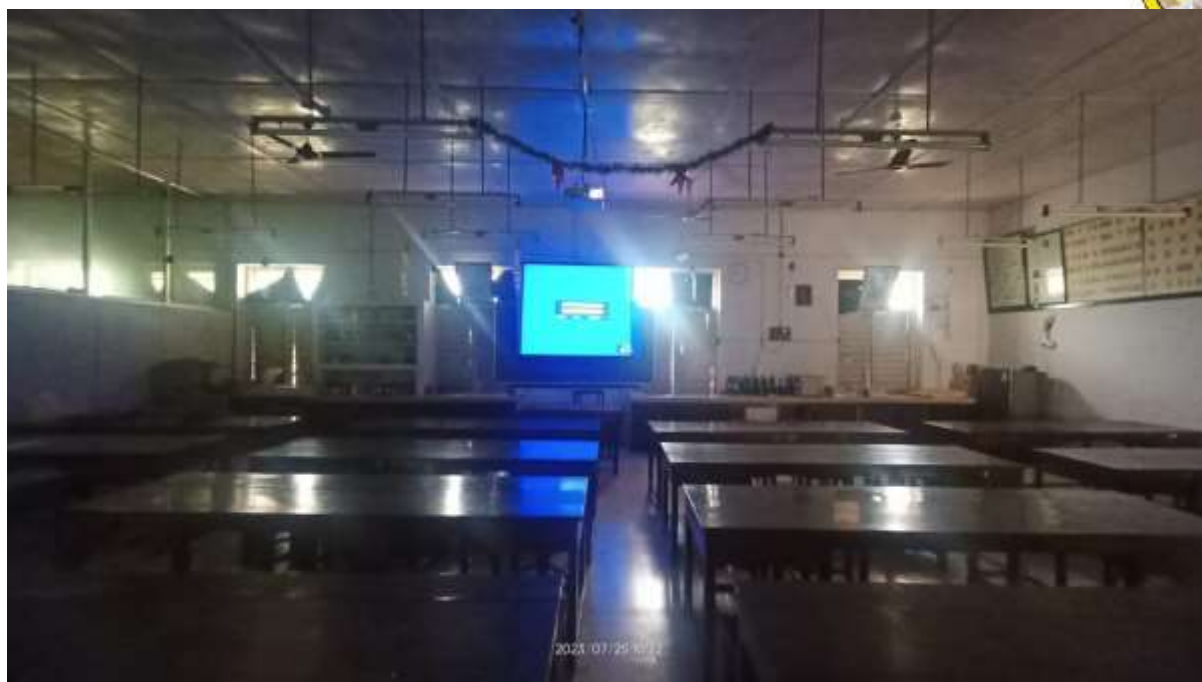
Meeting details 10:28 / 43:12



## List of ICT Enabled Classrooms

Room number or Name of classrooms/Seminar Hall with LCD / wifi/LAN facilities with room numbers	Type of ICT facility
Seminar hall	LCD Projector
Language lab	LCD Projector
CB203	LCD Projector
CB301	LCD Projector
CB302	LCD Projector
MB029	LCD Projector
MB024	LCD Projector
MB008	LCD Projector
MB006	LCD Projector
MB005	LCD Projector
MB003	LCD Projector
CB 403	LCD Projector
OC 1	LCD Projector
OB 16	Interactive Board
CB308	LCD Projector





### **Amrita Virtual Lab**

SNM College is one of the Nodal centres of the Amrita virtual Lab which provides students a simulated environment where they can conduct experiments and learn about scientific concepts without the constraints of the physical lab.

[Link](#)

### **E contents developed.**

We have an online video repository which consists of more than 4500 video lectures which is made available to students through SNMC virtual.

[Link to E content](#)