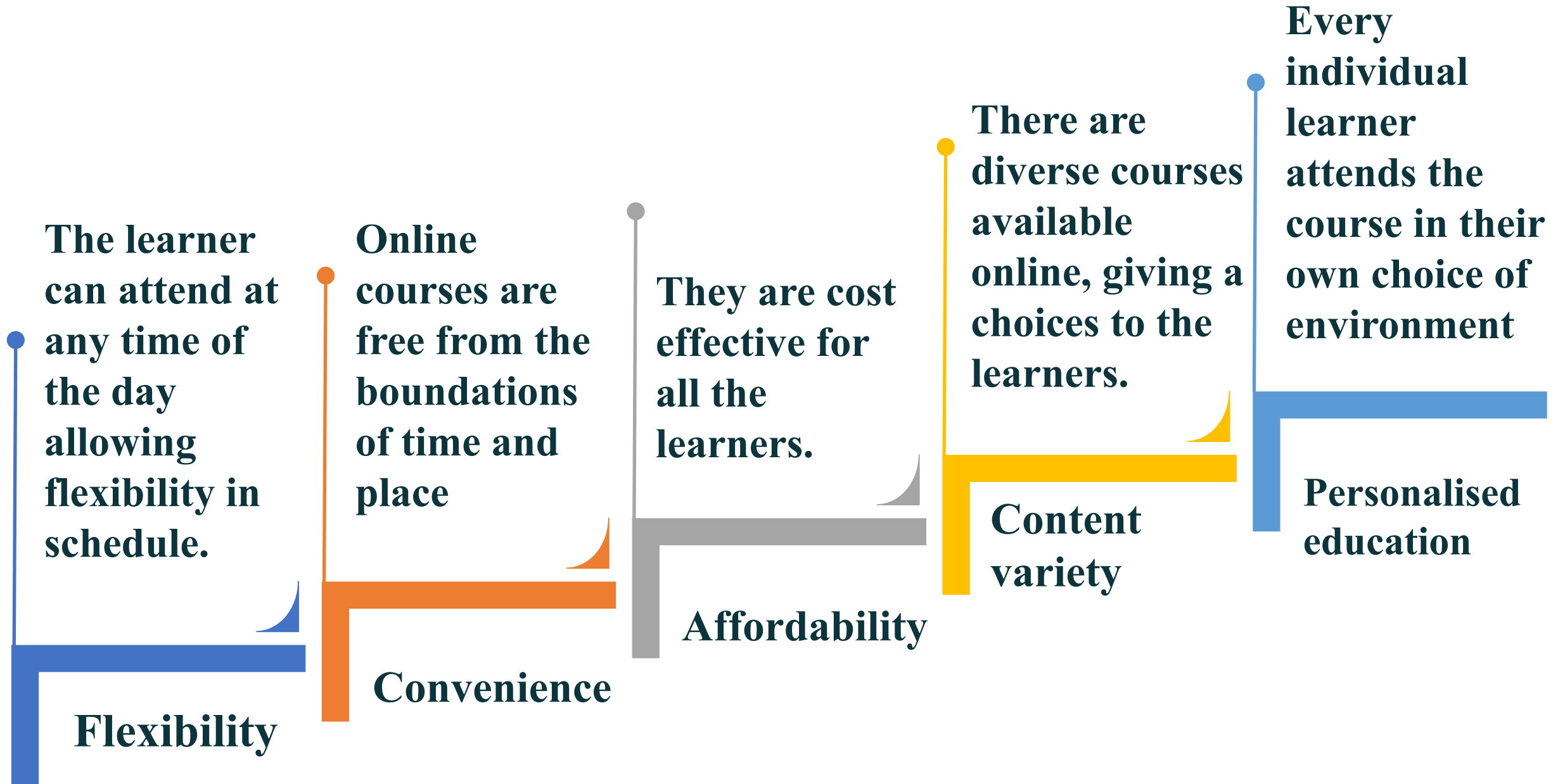




# Online Courses for School Education

# Benefits of online courses



# Policy Perspectives

- The NEP 2020 has a special focus on online education.
- Online tools and platforms like DIKSHA and SWAYAM to be pursued for training content, in-class resources, assessment aids, profiles, etc. that will allow seamless interaction.
- One of the objective is to transform the education system and structure while focusing on online education.
- It emphasizes the role of DIKSHA and SWAYAM as a tech platform for integrating teaching - learning practices.
- Reaffirms the bridging of social gaps, ensuring equitable education for all.

# Study Webs of Active–Learning for Young Aspiring Minds (SWAYAM)

**One stop web and mobile based  
Interactive e-content platform**

**High quality learning experience using  
multimedia on anytime, anywhere  
basis**

**Access, equity and quality**



**State of the art system that  
allows easy access,  
monitoring and certification**

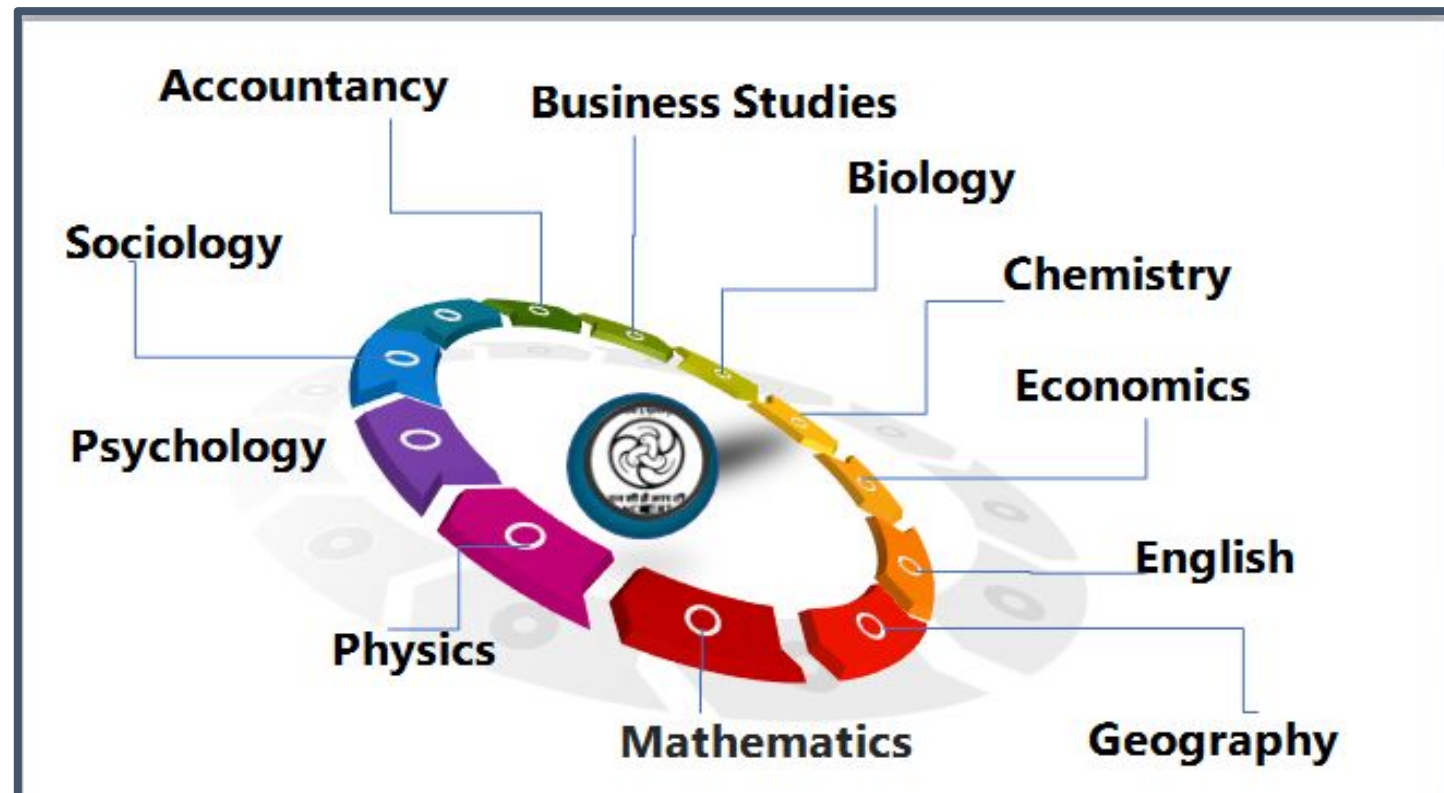
**Hybrid model of delivery that  
adds to the quality of classroom  
teaching**

# National Coordinators on SWAYAM

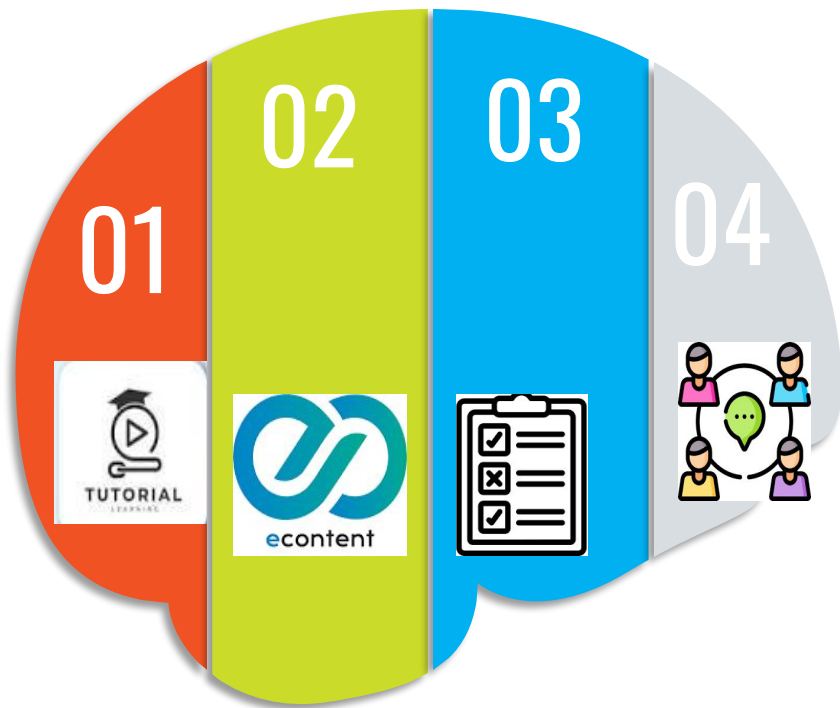


# Online Courses offered by NCERT on SWAYAM

- 28 courses for Class XI and XII across 11 subjects
- Yearly two cycle:
  - April to September
  - October to March
- Who can join?
  - Students
  - Teachers
  - Parents
  - Any one



# Components of Course



01

eTutorial (Video)

02

eContent (PDF, Text, e-Books, Illustrations and Documents) including Web resources (Related Links, Wikipedia, Open Content etc.).

03

Assessment (Problem/ solutions, MCQs, Short answers type, Quizzes, Assignments etc.).

04

Discussion forum

Live session on TV channel, Live interaction with mentors, Final assessment

# How to join and complete the course

1. Access the course links from CIET site :  
<https://ciet.nic.in/swayam-moocs.php?&ln=en>
2. Access the Course by clicking on the course link
3. Register on <https://swayam.gov.in/>
4. Join the selected course for **FREE**
5. Learn the content and complete all activities
6. Take up the final assessment and get certified

# Step 1: Access the course links from CIET site

[Home](#) [About Us](#) [Constituents](#) [Projects](#) [Resources](#) [Events](#) [Transmission](#) [Announcements](#) [SIETs](#) [RTI](#) [People](#) [Contact Us](#)

वसुधैव कुटुम्बकम्

- ONE EARTH
- ONE FAMILY
- ONE FUTURE

## About CIET....

Central Institute of Educational Technology(CIET), a constituent of the Ministry of Education, Government of India, is the largest Center for Educational Technology(CET) and Department of Educational Technology. Its major aim is to promote utilization of educational technology. Its major aim is to promote utilization of educational media either separately or in combinations... [Read more](#)

- NCERT Initiatives for Inclusive and Accessible Education
- Cyber Safety & Security
- Brochure on ICT Initiatives
- Catalogue
- Comics on Conservation of Environment - PCRA & NCERT (Hindi)
- eContent Guidelines
- Journals
- Newsletters
- UNESCO Resources
- eContent Evaluation
- Mahatma Gandhi
- Reports
- Learning Objects
- Audio Books
- MOOCs on SWAYAM
- Alternative Academic Calendar
- ICT Initiative

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[Home](#)

**NCERT MOOCs on  
SWAYAM**

The National Council of Educational Research and Training (NCERT) has been nominated as National coordinator (NC) to develop and disseminate Massive Open Online Courses (MOOCs) for School Education (Classes IX to XII) through "SWAYAM" (Study Webs of Active- Learning for Young Aspiring Minds) portal and app, which is accessible at <http://swayam.gov.in/>.

Join in these online courses for free and enrich your intellectual horizon.





## स्वयं पोर्टल पर एनसीईआरटी द्वारा प्रस्तुत पाठ्यक्रमों के साथ ऑनलाइन सीखना जारी रखें

एनसीईआरटी द्वारा प्रस्तुत कक्षा XI और XII विषय के पाठ्यक्रमों का व्यावहारिक ज्ञान प्राप्त करें



**ई-सामग्री**

| कक्षा 11  | कक्षा 12  |
|-----------|-----------|
| विज्ञान   | सांख्यिकी |
| सांख्यिकी | सांख्यिकी |
| सांख्यिकी | सांख्यिकी |
| सांख्यिकी | सांख्यिकी |
| सांख्यिकी | सांख्यिकी |
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| सांख्यिकी | सांख्यिकी |
| सांख्यिकी | सांख्यिकी |



**चर्चा मंच**



**ई-ट्यूटोरियल**



**स्व मूल्यांकन**

कोई एवं कोर्स में शामिल होने की प्रक्रिया संबंधित विस्तृत जानकारी हेतु लिंक पर क्लिक करें।

<https://ciet.nic.in/swayam-moocs.php?&ln=en>



SWAYAM Guidelines

[📖 Course Brochure](#)

📌 Course Repository (2020-21)

## Support

For any further queries, contact at-  
moocs.helpdesk@ciet.nic.in

PMeVidya IVRS No.- 8800 440 559

**Learn Class XI and Class XII courses on SWAYAM MOOCs by NCERT**

# Step 2: Access the course by clicking on the course

## NCERT MOOCs on SWAYAM

The National Council of Educational Research and Training (NCERT) has been nominated as National coordinator (NC) to develop and disseminate Massive Open Online Courses (MOOCs) for School Education (Classes IX to XII) through "SWAYAM" (Study Webs of Active- Learning for Young Aspiring Minds) portal and app, which is accessible at <http://swayam.gov.in/>.

Join in these online courses for free and enrich your intellectual horizon.

*Are you interested to join these courses?*

Click on the below course titles to access the course on SWAYAM

| Class XI MOOCs                     | Class XII MOOCs                     |
|------------------------------------|-------------------------------------|
| Accountancy, Class XI, Part-I      | Biology, Class XII, Part-I          |
| Biology, Class XI, Part-I          | Business Studies, Class XII, Part-I |
| Biology, Class XI, Part-II         | Chemistry, Class XII, Part-1        |
| Business Studies, Class XI, Part-I | Economics, Class XII, Part-I        |
| Chemistry, Class XI, Part-I        | English, Class XII, Part-I (APPEAR) |
| Chemistry, Class XI, Part-II       | Geography, Class XII, Part-I        |
| Economics, Class XI, Part-I        | Geography, Class XII, Part-II       |
| Geography, Class XI, Part-I        | Mathematics, Class XII, Part-I      |
| Geography, Class XI, Part-II       | Physics, Class XII, Part-I          |
| Mathematics, Class XI, Part-I      | Physics, Class XII, Part-II         |
| Mathematics, Class XI, Part-II     | Psychology, Class XII, Part-I       |
| Physics, Class XI, Part-I          | Sociology, Class XII, Part-1        |
| Physics, Class XI, Part-II         |                                     |
| Psychology, Class XI, Part-I       |                                     |
| Psychology, Class XI, Part-II      |                                     |
| Sociology, Class XI, Part-1        |                                     |

📖 SWAYAM Guidelines

📖 Course Brochure

📖 Course Repository (2020-21)

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[moocs.helpdesk@ciet.nic.in](mailto:moocs.helpdesk@ciet.nic.in)

PM eVidya IVRS No.- 8800 440 559

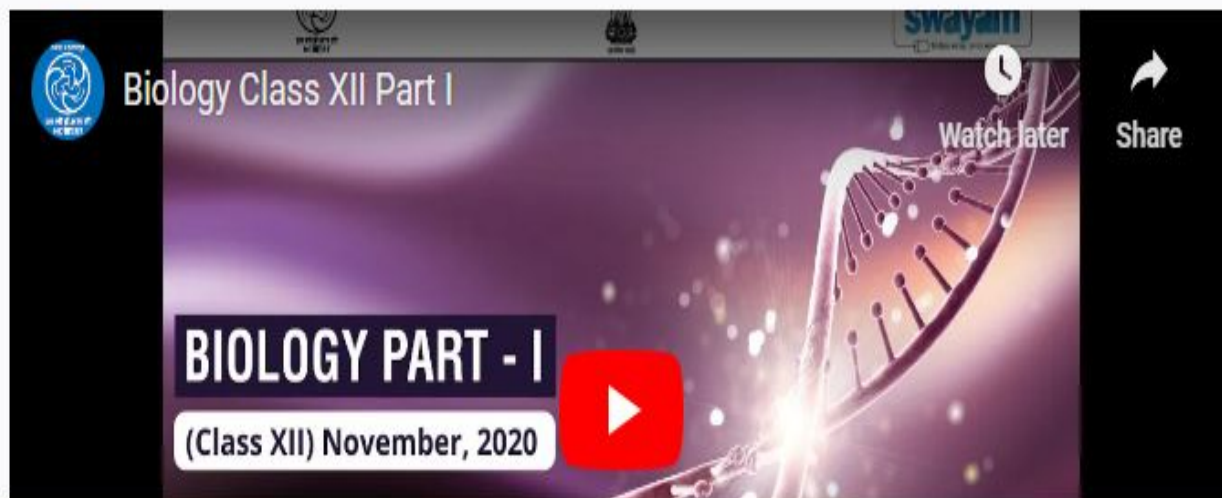
Courses >

## Biology XII Part-I

By Dr. Sunita Farkya | DESM, NCERT, New Delhi

[Join](#)

Learners enrolled: 220



### Summary

|                 |          |
|-----------------|----------|
| Course Status : | Upcoming |
| Course Type :   | Core     |
| Duration :      | 24 weeks |
| Category :      | ◦ School |

# Step 3: Register/ Login on the SWAYAM portal



About Swayam | All Courses |

SIGN-IN / REGISTER

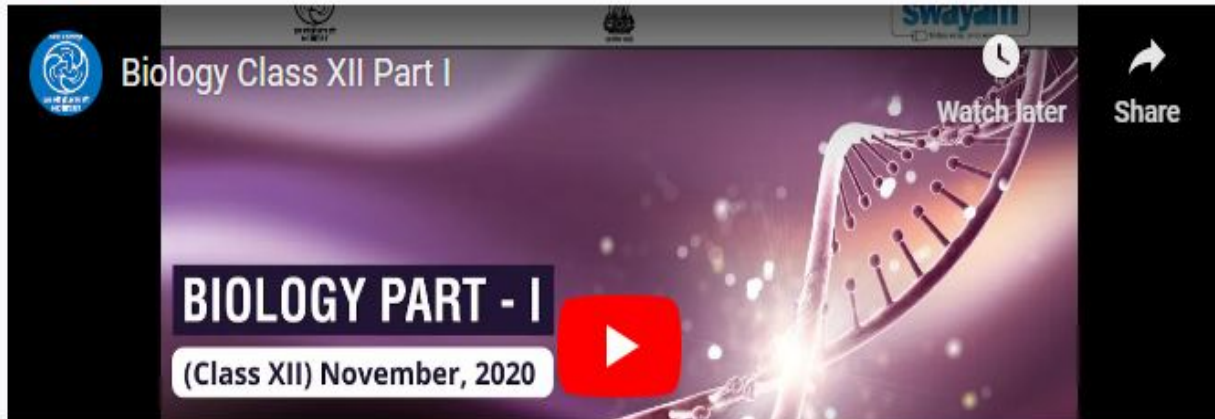
Courses >

## Biology XII Part-I

By Dr. Sunita Farkya | DESM, NCERT, New Delhi

Join

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### Summary

|                 |          |
|-----------------|----------|
| Course Status : | Upcoming |
| Course Type :   | Core     |
| Duration :      | 24 weeks |
| Category :      | • School |

**Login:**

Login Into SWAYAM using Facebook, Google, Microsoft or SWAYAM account.



Microsoft Account



Google



Facebook

OR

Username

Password

Sign In

[Forgot your password?](#)

OR

Don't have an account? [Sign up now](#)

# Step 4: Join the course



About Swayam | All Courses | [angel.rathnabai@ciet.nic.in](mailto:angel.rathnabai@ciet.nic.in) ▾

Courses >

## Biology XII Part-I

By Dr. Sunita Farkya | DESM, NCERT, New Delhi

Join

Learners enrolled: 220



### Summary

|                 |          |
|-----------------|----------|
| Course Status : | Upcoming |
| Course Type :   | Core     |
| Duration :      | 24 weeks |
| Category :      | ◦ School |

## Personal Details

Name \*

Mobile Number \*

+91

Email \*

angel.rathnabai@ciet.nic.in

Which age group do you belong  
to? \*



Gender \*

-- Select Gender --



Country residing in currently \*



Pincode \*

State \*



City/District \*



Profession \*



Highest Qualification \*



COURSE CATALOG ▾

Search Catalog...



rashid.ciet13@gmail.com ▾

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meet your needs

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MY COURSES



MY CERTIFICATIONS



SIGN-OUT



Submit your credit  
transfer grievances

SWAYAM Courses in  
Regional languages

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

"Result for 160 CBT-  
SWAYAM Exams held on  
25-26 Feb 2023"

Result for all CBT  
(IGNOU, CEC, IIMB, NITTTR) -  
SWAYAM Exams held on 25-26  
Feb 2023

# Step 5: Learn the content and complete the activities

shivangi.ciet@gmail.com ▾

NCERT » Biology XII Part-I

AnnouncementsAbout the CourseAsk a QuestionProgressMentorReview Assignment

Course outline

Chapter 1 : Reproduction in organisms

Module 1

Module 2

Module 3

Chapter: 2 Sexual Reproduction in Flowering Plants

Module 4

Module 5

DNA and Search for Genetic Material



Structure of DNA

Watch Later Share

# Self Assessment for module



shivangl.ciet@gmail.com ▾

NCERT » Biology XII Part-I

Announcements

About the Course

Ask a Question

Progress

Mentor

Review Assignment

## Course outline

Chapter 1 : Reproduction  
in organisms

Module 1

☐ Reproduction

☒ Quiz: Module 1: Self-  
Assessment

Module 2

Module 3

Chapter: 2 Sexual  
Reproduction in  
Flowering Plants

Module 4

Module 5

Module 6

Module 7

Chapter 3: Human

## Module 1: Self-Assessment

Assignment not submitted

Due date: 2023-09-24, 23:59 IST.

1) Species generally continue to live but can get eliminated due to –

1 point

- ☐ Anthropogenic action
- ☐ Attack by aliens
- ☐ Attack by predators

2) Lifespan of a tortoise is –

1 point

- ☐ 90 to 100 yrs
- ☐ 100 to 150 yrs
- ☐ 160 to 200 yrs
- ☐ 60 to 90 yrs

3) Senescence can be defined as –

1 point

- ☐ When reproduction begins
- ☐ Cessation of life activities
- ☐ Organism develops ability to reproduce
- ☐ Terminal irreversible stage of aging

4) Asexual reproductive structures found in sponges are –

1 point

- ☐ gemmules
- ☐ gemmae

# Assignment for chapter



shivangi.ciet@gmail.com ▾

NCERT » Economic XI Part-I

Announcements

About the Course

Ask a Question

Progress

Mentor

Review Assignment

## Course outline

Chapter 1: Indian Economy on the Eve of Independence

Module 1

Assignment for Chapter 1

☐ Assignment 1

Chapter 2: Indian Economy (1950-1990)

Module 2

Assignment for Chapter 2

## Assignment 1

**Due on 2023-09-24, 23:59 IST**  
**Maximum size of assignment : 5 MB**

Make a table consisting of a comparison of key indicators like mortality rate, infant mortality rate, life expectancy, literacy rate, female literacy rate and share of agriculture in employment and GDP at the time of independence and their current values. Express the contrast in a few words, throwing light on the factors that caused this change.

## Your Submission:

Maximum of 1 files allowed.

Add File

You are allowed to submit this assignment only once.

Submit

# Queries can be resolved by Discussion Forum

The screenshot displays a web interface for a discussion forum. On the left is a sidebar with navigation options: 'Groups' (with a hamburger menu icon), 'New conversation' (with a plus icon), 'My groups' (with a group icon), 'Recent groups' (with a clock icon), 'Favourite groups' (with a folder icon), 'Starred conversations' (with a star icon), and a section for 'Discussion forum for Biology XII Part-I' containing 'Conversations' (with a chat icon and a count of 2) and 'About' (with an information icon). The main area at the top features a search bar with the text 'Conversations' and a dropdown menu showing 'Search conversations within nce23-sc04-dis...'. To the right of the search bar are icons for settings, a grid, and a profile picture. Below the search bar, the title '☆ Discussion forum for Biology XII Part-I' is shown next to a 'Join group' button. A pagination indicator shows '1-2 of 2' with left and right arrows. Below the title are icons for a square, a refresh symbol, and a vertical ellipsis. The main content area lists two conversations. The first conversation is by 'Rizwan Fa..., diksha co...' with a count of 2, titled 'REPRODUCTION – Yes, parthenocarpy is different from apomixis. In parthenocarpy, the frui...', timestamped '11:42', and has a star icon. The second conversation is from 'Kids Animation World' titled 'Course Module status – When the course will start', timestamped '24 Apr', and also has a star icon.

Groups

New conversation

My groups

Recent groups

Favourite groups

Starred conversations

Discussion forum for Biology XII Part-I

Conversations 2

About

Conversations

Search conversations within nce23-sc04-dis...

☆ Discussion forum for Biology XII Part-I

Join group

1-2 of 2

Rizwan Fa..., diksha co... 2

REPRODUCTION – Yes, parthenocarpy is different from apomixis. In parthenocarpy, the frui...

11:42

Kids Animation World

Course Module status – When the course will start

24 Apr

# Discussion Forum

 Groups

 New conversation

 My groups

 Recent groups

 Favourite groups

 Starred conversations

Discussion forum for Biology XII Part-I

 Conversations 1

 About

 Conversations

Search conversations within nce23-sc04-dis...



 1 of 2 < >

REPRODUCTION 4 views Subscribe ☐ 

 **Rizwan Fatma** 11:37 (1 hour ago) 

Is there any difference between apomixis and parthenocarp? What the their benifits?

 **diksha course** 11:42 (1 hour ago)   

to Discussion forum for Biology XII Part-I, Rizwan Fatma

Yes, **parthenocarp** is different from apomixis. In parthenocarp, the fruit is produced without the fertilization of the female gamete. It is used for the production of fruits without seeds such as banana and grapes for commercial purposes. Apomixis is the process in which the seeds are produced without fertilization but the process occurs in the female reproductive tract of the plant. In this, the megaspore mother cell does not undergo meiosis. It is used for the commercial production of hybrid varieties and in the production of virus-free varieties.

...

 Reply to all

 Reply to the author

 Forward

# Assessment & Certification

**Based on objective type summative assessment and performance in the course, certificate will be provided**

- 1. Course Completion Certificate** - Learners who scored 50% and above in the internal assessments along with 60% and above in the final assessment
- 2. Course Participation Certificate** - Learners who scored 50% and above in the internal assessment
- 3. Certificate of Appreciation** -Learners who scored 60% and above in the final assessment

# Certificate of Completion



**SUMMATIVE  
ASSESSMENT** **60%**

**FORMATIVE  
ASSESSMENT** **50%**



# Certificate of Participations



## Certificate of Participation

This is to certify that

**Mr./ Ms./ Dr. .... Suman Bera**

has successfully completed the online course

**Physics XI Part-II**

offered by the National Council of Educational Research & Training  
New Delhi-110016, from *October 2022 to March 2023* with the scores

Formative: **55 %**

**National MOOCs Coordinator**  
Joint Director, CIET-NCERT



**50%** **FORMATIVE  
ASSESSMENT**



THANK YOU