



CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI

छत्तीसगढ़ स्वामी विवेकानंद तकनीकी विश्वविद्यालय, भिलाई

Ref. No. CSVTU/UTD/SWAYAM/2025/256

Bhilai, Date: 30/1/25

To,

The Director/Principals
All Affiliated Institute of CSVTU, Bhilai CG

Subject: Regarding registration for SWAYAM MOOCs courses developed by CSVTU Bhilai for January 2025 cycle.

Dear Sir/Madam,

Registrations for SWAYAM online course platform initiated by Ministry of Education Government of India have started for January 2025 cycle. CSVTU Bhilai have developed 33 courses (list is attached) for **SWAYAM platform** in various domains. Out of 33 courses, 09 courses have been prepared in **Hindi language** as per **National Education Policy 2020**. The courses are available in the SWAYAM online platform under IGNOU as national coordinator for free of cost. These courses are designed on the basis of curriculum followed by CSVTU, so it will be very helpful for the students to acquire knowledge in particular domain.

The list of courses with their URLs is attached with this letter for your reference. Please share this information with your students, so that they can get some useful insights and benefit from the courses. The link of the courses is also provided on the CSVTU website; students can also visit the website to register for the courses.

All are requested to please share the registration details by filling the google form by 3rd March 2025.

Google form link: <https://forms.gle/VM6ChbuwVcuHNX7X7>

Note:

1. Those who have already submitted the SWAYAM/ MOOCs course details previously, they must also share the registration details of January 2025 Cycle.

[Handwritten Signature]
30/1/25 (1)

2. The last date of Course registration on SWAYAM portal is 28th February 2025.
3. The steps for registration on SWAYAM portal is attached.

Copy to:

1. PS to HVC office
2. Director, DTE, Raipur for information please.
3. Chairman NEP, CSVTU Bhilai for compliance
4. Master File


Registrar
30.11.24
CSVTU Bhilai CG
REGISTRAR
CSVTU, BHILAI (C.G.)

List of SWAYAM Courses for January 2025 Cycle

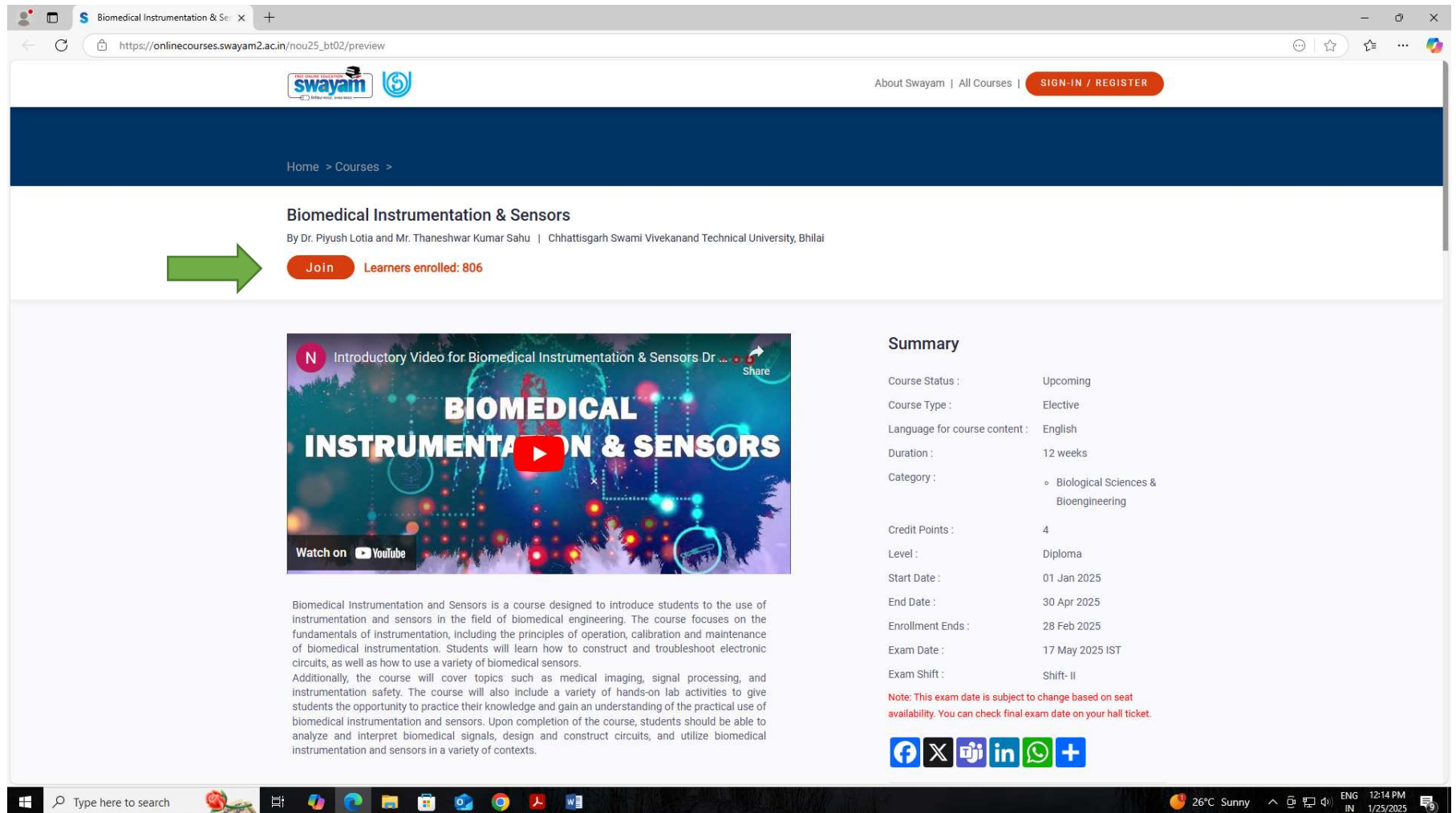
1.	Emerging Technologies in Renewable Energy Sources	https://onlinecourses.swayam2.ac.in/nou25_es03/preview	English
2.	Power Generation Technologies	https://onlinecourses.swayam2.ac.in/nou25_es04/preview	English
3.	Biomedical Instrumentation & Sensors	https://onlinecourses.swayam2.ac.in/nou25_bt02/preview	English
4.	Data Structure using C Programming	https://onlinecourses.swayam2.ac.in/nou25_cs06/preview	English
5.	Image Processing Using Python	https://onlinecourses.swayam2.ac.in/nou25_cs08/preview	English
6.	Safety in Construction Industry	https://onlinecourses.swayam2.ac.in/nou25_ce05/preview	English
7.	Industrial Safety and Fire Safety Management	https://onlinecourses.swayam2.ac.in/nou25_ge32/preview	English
8.	Elements of Underground and Opencast Mining	https://onlinecourses.swayam2.ac.in/nou25_mm02/preview	English
9.	Fundamentals of Computational Biology	https://onlinecourses.swayam2.ac.in/nou25_bt03/preview	English
10.	Genetic Engineering and Its Recent Advancements	https://onlinecourses.swayam2.ac.in/nou25_bt04/preview	English
11.	Digital electronic and System design	https://onlinecourses.swayam2.ac.in/nou25_ec03/preview	English
12.	Fundamental of Electronic Engineering	https://onlinecourses.swayam2.ac.in/nou25_ec04/preview	English
13.	Basic Principles of Energy Management & Energy Audit	https://onlinecourses.swayam2.ac.in/nou25_es05/preview	English
14.	Computational Protein Modeling and Analysis	https://onlinecourses.swayam2.ac.in/nou25_bt05/preview	English
15.	Artificial Intelligence using Prolog Programming	https://onlinecourses.swayam2.ac.in/nou25_cs07/preview	English
16.	Environmental Studies: Pollution, Climate Change and Safety Management (पर्यावरण अध्ययन: प्रदूषण, जलवायु परिवर्तन और सुरक्षा प्रबंधन)	https://onlinecourses.swayam2.ac.in/nou25_es07/preview	Hindi
17.	Energy Efficient Buildings	https://onlinecourses.swayam2.ac.in/nou25_ge35/preview	English
18.	Introduction to DBMS (डेटाबेस प्रबंधन प्रणाली का परिचय (डीबीएमएस))	https://onlinecourses.swayam2.ac.in/nou25_cs13/preview	Hindi

19.	Industrial Automation and Drives	https://onlinecourses.swayam2.ac.in/nou25_ee02/preview	English
20.	Maintenance and Testing of Electrical Machines	https://onlinecourses.swayam2.ac.in/nou25_ee01/preview	English
21.	Fundamentals of Communication system and its applications	https://onlinecourses.swayam2.ac.in/nou25_ec05/preview	English
22.	Fundamental of Cryptography (क्रिप्टोग्राफी के मूलभूत सिद्धांत)	https://onlinecourses.swayam2.ac.in/nou25_cs10/preview	Hindi
23.	Fundamentals of Engineering Physics	https://onlinecourses.swayam2.ac.in/nou25_ma02/preview	English
24.	Microbial Technology	https://onlinecourses.swayam2.ac.in/nou25_bt06/preview	English
25.	Fundamentals of Operating Systems (ऑपरेटिंग सिस्टम के बुनियादी सिद्धांत)	https://onlinecourses.swayam2.ac.in/nou25_cs11/preview	Hindi
26.	Foundations of Algorithmic Problem-Solving A Comprehensive Approach (एल्गोरिदमिक समस्या-समाधान की नींव : एक व्यापक दृष्टिकोण)	https://onlinecourses.swayam2.ac.in/nou25_cs12/preview	Hindi
27.	Formal Language and Automata Theory- An Application in Compiler Design (औपचारिक भाषा और स्वचालित सिद्धांत: कंपाइलर डिज़ाइन में एक अनुप्रयोग)	https://onlinecourses.swayam2.ac.in/nou25_cs14/preview	Hindi
28.	Essentials of Surveying: Application and Techniques	https://onlinecourses.swayam2.ac.in/nou25_ce06/preview	English
29.	Fundamentals of Building Construction	https://onlinecourses.swayam2.ac.in/nou25_ce07/preview	English
30.	Fundamental of Computers in Manufacturing (फंडामेंटल्स ऑफ कंप्यूटर्स इन मैनुफैक्चरिंग)	https://onlinecourses.swayam2.ac.in/nou25_ma03/preview	Hindi
31.	Fundamental of Fluid Mechanics (द्रव यांत्रिकी के मौलिक सिद्धांत)	https://onlinecourses.swayam2.ac.in/nou25_me06/preview	Hindi
32.	Introduction to Electric and Hybrid Electric Vehicle	https://onlinecourses.swayam2.ac.in/nou25_ec06/preview	English
33.	Environmental pollution and Sustainable management (पर्यावरण प्रदूषण और सतत प्रबंधन)	https://onlinecourses.swayam2.ac.in/nou25_es06/preview	Hindi

Steps for Registrations

Steps for registrations:

1. Click on “Join”



The screenshot shows a web browser window displaying the Swayam website. The URL in the address bar is https://onlinecourses.swyam2.ac.in/nou25_bt02/preview. The page header includes the Swayam logo and navigation links for 'About Swayam', 'All Courses', and a 'SIGN-IN / REGISTER' button. The main content area features a course card for 'Biomedical Instrumentation & Sensors' by Dr. Piyush Lotia and Mr. Thaneshwar Kumar Sahu. A green arrow points to the 'Join' button, which is next to the text 'Learners enrolled: 806'. Below the course card is a video player for an introductory video. To the right, a 'Summary' section lists course details: Course Status (Upcoming), Course Type (Elective), Language (English), Duration (12 weeks), Category (Biological Sciences & Bioengineering), Credit Points (4), Level (Diploma), Start Date (01 Jan 2025), End Date (30 Apr 2025), Enrollment Ends (28 Feb 2025), Exam Date (17 May 2025 IST), and Exam Shift (Shift-II). A note at the bottom of the summary states: 'Note: This exam date is subject to change based on seat availability. You can check final exam date on your hall ticket.' Social media sharing icons for Facebook, X, YouTube, LinkedIn, and WhatsApp are located at the bottom of the summary section. The Windows taskbar is visible at the bottom of the browser window, showing the search bar, taskbar icons, and system tray with a temperature of 26°C and the time 12:14 PM on 1/25/2025.

Home > Courses >

Biomedical Instrumentation & Sensors

By Dr. Piyush Lotia and Mr. Thaneshwar Kumar Sahu | Chhattisgarh Swami Vivekanand Technical University, Bhilai

[Join](#) Learners enrolled: 806

Introductory Video for Biomedical Instrumentation & Sensors Dr ...

BIOMEDICAL INSTRUMENTATION & SENSORS

Watch on YouTube

Biomedical Instrumentation and Sensors is a course designed to introduce students to the use of instrumentation and sensors in the field of biomedical engineering. The course focuses on the fundamentals of instrumentation, including the principles of operation, calibration and maintenance of biomedical instrumentation. Students will learn how to construct and troubleshoot electronic circuits, as well as how to use a variety of biomedical sensors. Additionally, the course will cover topics such as medical imaging, signal processing, and instrumentation safety. The course will also include a variety of hands-on lab activities to give students the opportunity to practice their knowledge and gain an understanding of the practical use of biomedical instrumentation and sensors. Upon completion of the course, students should be able to analyze and interpret biomedical signals, design and construct circuits, and utilize biomedical instrumentation and sensors in a variety of contexts.

Summary

Course Status :	Upcoming
Course Type :	Elective
Language for course content :	English
Duration :	12 weeks
Category :	◦ Biological Sciences & Bioengineering
Credit Points :	4
Level :	Diploma
Start Date :	01 Jan 2025
End Date :	30 Apr 2025
Enrollment Ends :	28 Feb 2025
Exam Date :	17 May 2025 IST
Exam Shift :	Shift- II

Note: This exam date is subject to change based on seat availability. You can check final exam date on your hall ticket.

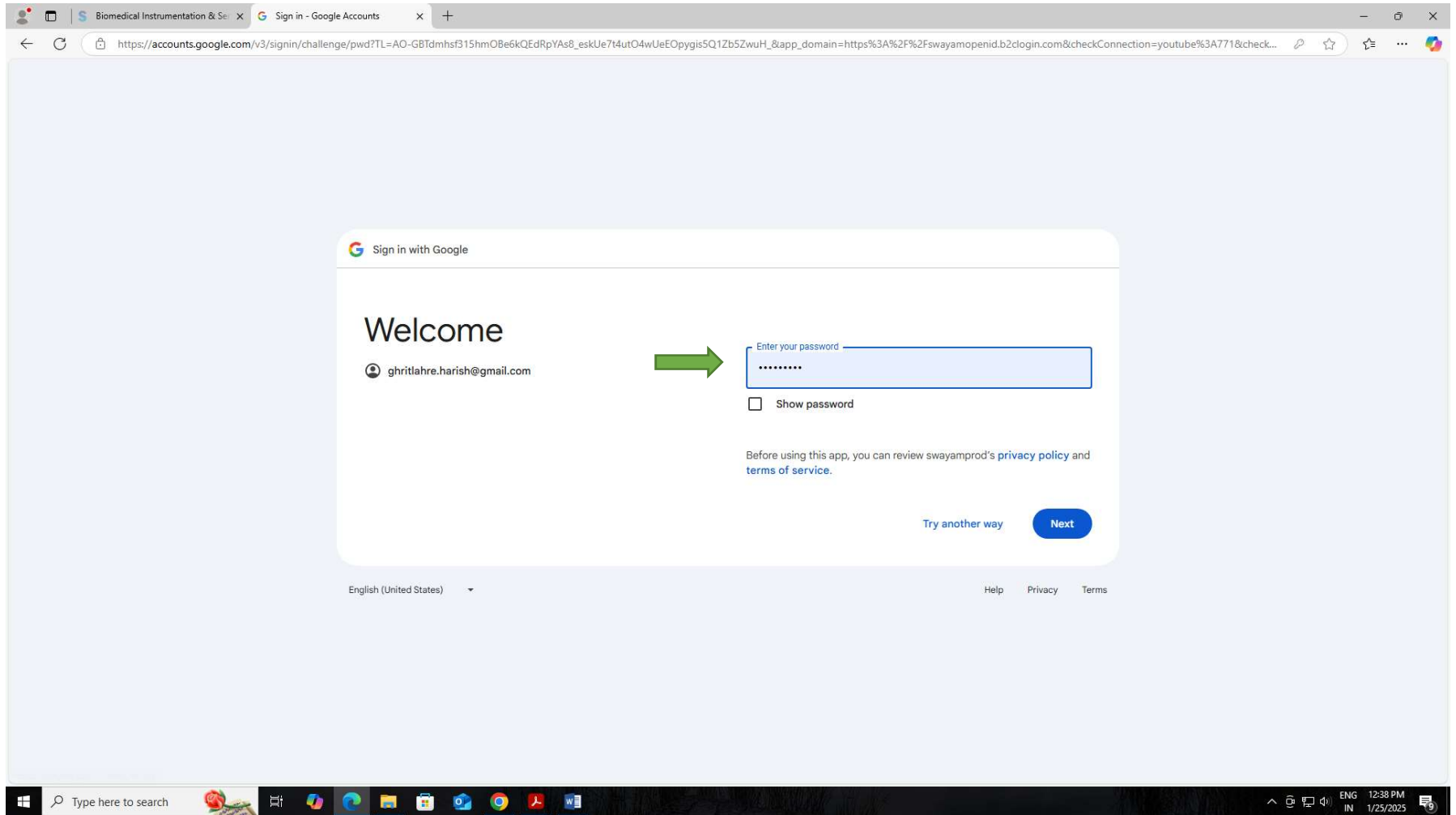
2. Go through the Google Account.

The screenshot shows a web browser window with the URL https://swayamopenid.b2clogin.com/swayamopenid.onmicrosoft.com/B2C_1_swayam2/oauth2/v2.0/authorize?response_type=code&client_id=9d496f4e-cf40-4487-b6e5-ec40fd214dd&redirect_uri=https%3A%2F%2Fonlinecourses.swayam2.ac.in%2Fwso.... The page header includes the Swayam logo and navigation links: About Swayam | All Courses | Partner Institutions | Local Chapters | Swayam Plus. The main content area features a large image of a person using a laptop and smartphone, overlaid with a semi-transparent login form containing fields for Username, Password, and a Login button. To the right, a grey box contains the text: "Login: Login into SWAYAM using Google, Microsoft or SWAYAM account. Users can use Google (Gmail) or Microsoft accounts (MSN, Hotmail etc.) to log in. If you haven't associated with either of these accounts, you must use the 'Sign up now' option to create a new SWAYAM account." Below this, the heading "Sign in with your social account" is followed by buttons for Microsoft and Google. A green arrow points to the Google button. Below the social login options, the heading "Sign in with your user name" is followed by input fields for Username and Password, a "Forgot your password?" link, and a blue "SIGN IN" button. At the bottom, there is a link for "Don't have an account? Sign up now". The Windows taskbar at the bottom shows the search bar, taskbar icons, and system tray with the date 1/25/2025 and time 12:31 PM.

3. Fill the mail id:

The screenshot shows a web browser window with the address bar displaying a URL from accounts.google.com. The main content area features a white sign-in card with the Google logo and the text "Sign in with Google". Below this, it says "Sign in to continue to swayamprod". A large green arrow points from the text "Sign in" to a text input field labeled "Email or phone". Below the input field is a link for "Forgot email?". At the bottom of the card are links for "Create account" and a blue "Next" button. The footer of the page includes "English (United States)", "Help", "Privacy", and "Terms". The Windows taskbar at the bottom shows the search bar, task view, and several application icons, with the system tray displaying the date and time as 12:33 PM on 1/25/2025.

4. Fill Password:



The screenshot shows a web browser window with a Google sign-in page. The browser's address bar contains the URL: https://accounts.google.com/v3/signin/challenge/pwd?TL=AO-GBTdmhsf315hmOB6kQEEdRpYAs0_eskUe7t4utO4wUeEOpygis5Q1Zb5ZwuH_&app_domain=https%3A%2F%2Fswayamopenid.b2clogin.com&checkConnection=youtube%3A771&check...

The sign-in card features the Google logo and the text "Sign in with Google". Below this, it says "Welcome" followed by the email address "ghritlahre.harish@gmail.com". A green arrow points to a password input field labeled "Enter your password" which contains several dots. Below the field is a checkbox labeled "Show password".

At the bottom of the card, there is a link "Try another way" and a blue "Next" button. Below the card, the language is set to "English (United States)" and there are links for "Help", "Privacy", and "Terms".

The Windows taskbar at the bottom shows the search bar with "Type here to search", several application icons, and the system tray with the date and time "12:38 PM 1/25/2025".

5. Click on “Continue”

The screenshot shows a web browser window with a Google sign-in dialog box. The dialog box has a title bar that says "Sign in with Google". The main heading is "Sign in to swayamprod". Below the heading, the email address "ghritlahre.harish@gmail.com" is displayed. To the right of the email, there is a small text block: "By continuing, Google will share your name, email address, language preference, and profile picture with swayamprod. See swayamprod's Privacy Policy and Terms of Service." Below this text, it says "You can manage Sign in with Google in your Google Account." A large green arrow points downwards from this text towards the "Continue" button. At the bottom of the dialog box, there are two buttons: "Cancel" and "Continue". The "Continue" button is highlighted with a blue border. At the bottom of the browser window, there is a footer with "English (United States)", "Help", "Privacy", and "Terms". The Windows taskbar is visible at the bottom of the screen, showing the search bar, taskbar icons, and system tray with the date "1/25/2025" and time "12:39 PM".

Sign in with Google

Sign in to swayamprod

ghritlahre.harish@gmail.com

By continuing, Google will share your name, email address, language preference, and profile picture with swayamprod. See swayamprod's [Privacy Policy](#) and [Terms of Service](#).

You can manage Sign in with Google in your [Google Account](#).

Cancel Continue

English (United States) Help Privacy Terms

27°C Sunny 12:39 PM 1/25/2025

6. Email Address:

The screenshot shows a web browser window with multiple tabs open, including 'Biomedical Instrumentation & ...', 'swyamopenid.b2clogin.com/sv...', and several 'Swayam Central' tabs. The address bar shows a URL from 'swyamopenid.b2clogin.com'. The page header features the logos of the Ministry of Education, Government of India, and the All India Council for Technical Education (AICTE). Below the header is the 'swyam' logo with the tagline 'FREE ONLINE EDUCATION' and 'India ke liye, jaha se bhi'. Navigation links for 'HOME', 'ABOUT SWAYAM', 'ALL COURSES', and 'NATIONAL COORDINATORS' are present. The main content area is a login form with the label 'Email Address' and a text input field containing 'skriveclass@gmail.com'. Below the input field are two buttons: 'CONTINUE' and 'CANCEL'. A 'Google play' logo is displayed in a box below the form. At the bottom of the page, there are links for 'Privacy Policy', 'Terms of Use', and 'Honor Code'. The Windows taskbar at the bottom shows the search bar, taskbar icons, system tray with weather (27°C Sunny), and date/time (1:04 PM, 1/25/2025).

7. Click on “Continue”

The screenshot shows a web browser window with the URL <https://swyamopenid.b2clogin.com/swyamopenid.onmicrosoft.com/oauth2/authresp?state=StateProperties%3DeyJTSUQjOUJ4LW1zLWNwaW0tcM6OTM0MDE4ZUUtMzJhMS00ZGZLTg0YjYtNDhIMWVjODRhOWM0IiwVElEjoiZTVkY2VmZGUyYTZmYi00Yy...>. The page header includes the Ministry of Education Government of India logo and the All India Council for Technical Education logo. Below the header is the Swayam logo with the tagline "FREE ONLINE EDUCATION" and "शिक्षण निःशुल्क, ज्ञाना निःशुल्क". Navigation links for HOME, ABOUT SWAYAM, ALL COURSES, and NATIONAL COORDINATORS are present. The main content area features an "Email Address" label above a text input field containing "skrliveclass@gmail.com". A green arrow points to the "CONTINUE" button, which is highlighted in orange. A "CANCEL" button is also visible. Below the login form is a "Google play" logo. At the bottom of the page, there are links for "Privacy Policy", "Terms of Use", and "Honor Code". The Windows taskbar at the bottom shows the search bar, several application icons, and system tray information including "27°C Sunny", "ENG IN", and "1:05 PM 1/25/2025".

8. Fill all the details as given:

The screenshot displays the Swayam Central 'MY PROFILE' page. The browser's address bar shows the URL: https://onlinecourses.swyam2.ac.in/signup?user_email=skrliveclass@gmail.com&raw_slug=/nou25_ec03&origin=%2Fnou25_ec03%2Fregister%3Fautojoin%3Dyes%26user_email%3Dskrliveclass%40gmail.com&join=true. The page header includes the Swayam logo and navigation links: 'About Swayam | All Courses | skrliveclass@gmail.com'. The main content area is titled 'MY PROFILE' and features a 'Save Profile' button. Below this, there are two sections: 'Personal Details' and 'Education Details'. The 'Personal Details' section includes fields for Name, Mobile Number (with a '+91' prefix), Email (skrliveclass@gmail.com), Date of Birth (mm/dd/yyyy), Gender (dropdown menu), Country residing in currently (dropdown menu), Pincode, State (dropdown menu), City/District (dropdown menu), Profession (dropdown menu), Highest Qualification (dropdown menu), Year of Graduation (dropdown menu), and Academic Bank of Credits (ABC) (dropdown menu). A link 'Click here' is provided for more details. The 'Education Details' section includes a dropdown menu for 'Part of a SWAYAM local chapter?' with the value 'No'. A note below this field states: 'If you are a student/faculty in a college, go to here and check if your college is an SWAYAM Local Chapter'. The Windows taskbar at the bottom shows the search bar, taskbar icons, and system tray information: 27°C Sunny, ENG IN, 1:06 PM, 1/25/2025.



Profession *

Highest Qualification *

Year of Graduation *

Academic Bank of Credits (ABC) *

For more details [Click here](#)

Education Details

Part of a SWAYAM local chapter? *

If you are a student/faculty in a college, go to [here](#) and check if your college is an SWAYAM Local Chapter

Local Chapter State *

College Name *

Tip: Start typing your City or College name for automatic filtering

I agree to SWAYAM [Terms of Service](#)

I agree to follow the [Honor Code](#)

We've updated our form, please ensure all the required fields have been filled properly to activate the "Save" button.



9. After filling the detailsClick on “Save”

The screenshot shows a web browser window with the URL https://onlinecourses.swyam2.ac.in/signup?user_email=skriveclass@gmail.com&raw_slug=/nou25_ec03&origin=%2Fnou25_ec03%2Fregister%3Fautojoin%3Dyes%26user_email%3Dskriveclass%40gmail.com&join=true. The page displays the Swayam logo and navigation links: "About Swayam | All Courses | skriveclass@gmail.com".

The registration form includes the following fields:

- Profession *
- Highest Qualification *
- Year of Graduation *
- Academic Bank of Credits (ABC) *
- For more details [Click here](#)
- Education Details**
- Part of a SWAYAM local chapter? * (Selected: No)
- If you are a student/faculty in a college, go to [here](#) and check if your college is an SWAYAM Local Chapter
- Local Chapter State *
- College Name * (Selected: Other)
Tip: Start typing your City or College name for automatic filtering

Below the form, there are two checkboxes:

- I agree to SWAYAM [Terms of Service](#)
- I agree to follow the [Honor Code](#)

A red message states: "We've updated our form, please ensure all the required fields have been filled properly to activate the 'Save' button."

At the bottom of the form, there are two buttons: "SAVE" (highlighted with a green arrow) and "CANCEL".

The footer contains the Ministry of Education Government of India logo, the Swayam logo, a "DOWNLOAD APP" button with the Google Play logo, and "FOLLOW US" links for Facebook, YouTube, and Twitter. It also includes "Privacy Policy | Terms of Use | Honor Code", "SWAYAM Helpline / Support", "© 2025 SWAYAM. All rights reserved.", and "Initiative by : Ministry of Education (Govt of India)".

The Windows taskbar at the bottom shows the search bar, task view, and various application icons. The system tray on the right displays "27°C Sunny", "ENG IN", and the date "1/25/2025".