

**Guru Nanak Dev Engineering College, Ludhiana**  
**An Autonomous College under UGC Act 1956**  
**(Academic Section)**

No. AS/81/2384

Date: 01-01-2026

**CIRCULAR**

List for Open Electives to be opted by students of B.Tech. 4<sup>th</sup> Semester under Scheme Code-2024 for Session Jan-June, 2026 is enclosed herewith. Following are the important guidelines for students:

1. Any number of 12-week courses can be opted from the list enclosed which shall be considered as 'Open Elective-I/Open Elective-II/Open Elective-III', if qualified and consent will be taken from students as per the process listed below. Upon successful completion of the courses, the student will be exempted from attending 'Open Elective-I/II/III' courses when offered later in classroom teaching mode as per study scheme.

**Process:** There will be flexibility given to the students so that they can choose which of the successfully qualified NPTEL courses should be considered as Open Elective-I, II, III for their B.Tech. Programme. For this case, consent will be taken from students as per following timeline:

- (i) For Open Elective-I, consent will be taken before the start of 6<sup>th</sup> Sem for NPTEL courses successfully qualified by them during 3<sup>rd</sup> Sem to 5<sup>th</sup> Sem.
- (ii) For Open Elective-II and III, consent will be taken before the start of 7<sup>th</sup> Sem (if students have to undergo six month training in 8<sup>th</sup> Sem) and before the start of 8<sup>th</sup> Sem (if students have undergone six month training in 7<sup>th</sup> Sem) for NPTEL courses successfully qualified by them during 3<sup>rd</sup> Sem to 6<sup>th</sup> Sem.
- (iii) In case students have qualified NPTEL courses, but are not satisfied with the grades and they do not wish any of these to be considered as OE-I/OE-II/OE-III, in such case, they can opt for classroom teaching also in 6<sup>th</sup>/ 7<sup>th</sup>/ 8<sup>th</sup> Semester as per study scheme of department.

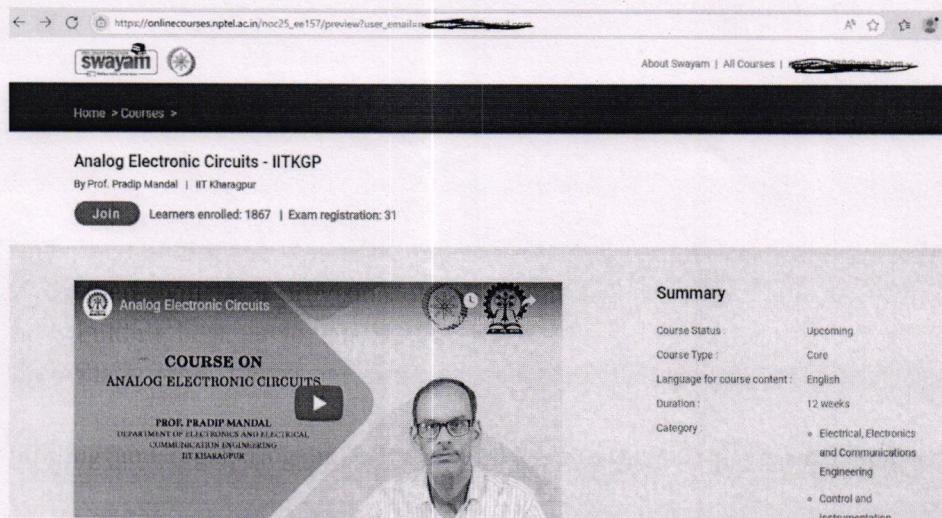
*Student should ensure whether his/her program is mentioned under 'Applicable UG Engg. Program' before enrolling for NPTEL course.*

2. In the list enclosed, NPTEL course "Introduction to Industry 4.0 and Industrial Internet of Things (noc26-cs38)" is being re-run in this session also; it can be opted by students, only if he/she wishes an improvement in grades or he/she has failed previously. Otherwise, enrolment in this course will be considered null.
3. Parent department will collect the information of students who enrolls in these courses such as NPTEL Roll No., NPTEL email as a proof etc.
4. On successfully qualifying the online course, student should submit a self-attested copy of final certificate issued by NPTEL to the parent department. Respective department and SPOC, Swayam-NPTEL Local Chapter of GNDEC shall verify the certificate.
5. Percentage scored in NPTEL Online Certification Exam will be mapped to End Sem Exam (ESE) Marks (i.e. out of 100 marks) and then to respective grades, hence '3' credits will be transferred for each 12-week course and considered as per study scheme of respective department. Grades obtained in NPTEL courses will be considered towards B.Tech. Programme, only if the course is

*Ques 11*

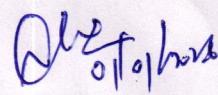
successfully qualified and obtained atleast 40% qualifying criteria as per College Examination rules. Moreover, there will be a provision of classroom teaching as per study scheme for the students, who wouldn't be able to qualify through Swayam-NPTEL platform. Evaluation of courses taught in classroom will be same as per existing method of assessment.

6. Steps for enrolling and registering in NPTEL course are given below (An example is shown here):
  - (i) Go to the Course URL given in the list enclosed and click on 'Join'.



The screenshot shows a web browser displaying a course page on the Swayam NPTEL platform. The URL in the address bar is [https://onlinecourses.nptel.ac.in/noc25\\_ee157/preview?user\\_email=\[REDACTED\]](https://onlinecourses.nptel.ac.in/noc25_ee157/preview?user_email=[REDACTED]). The page title is "Analog Electronic Circuits - IITKGP" by Prof. Pradip Mandal | IIT Kharagpur. A "Join" button is visible, along with learner statistics: 1867 learners enrolled and 31 exam registrations. The main content area features a thumbnail image of a man with glasses, identified as Prof. Pradip Mandal. To the right, a "Summary" box provides course details: Course Status: Upcoming; Course Type: Core; Language for course content: English; Duration: 12 weeks; Category: Electrical, Electronics and Communications Engineering, Control and Instrumentation.

- (ii) Update Profile i.e. Personal Details and Education Details. It is mandatory for student to select GNDEC as Swayam Local Chapter, fill college details as given below. Kindly note that '**University Roll Number**' is to be filled in section 'College/School Roll No.'. Then, 'Update Profile and Join Course'.



A handwritten signature in blue ink, appearing to read "Dr. S. T. Ghosh".

**Education Details**

Part of a SWAYAM local chapter? \*  Yes

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 \*

University Name \*

College/School Roll No. \*

Degree \*

Department \*

Study Year \*

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 "Update Profile and join course" button.

**UPDATE PROFILE AND JOIN COURSE** **CANCEL**

- (iii) Student will get an email confirming the course enrolment. Afterwards, he/she can start attending the course week wise. Student will have to fulfill the eligibility and qualification criteria as per NPTEL course guidelines from time to time.
- (iv) As per timeline notified by NPTEL, student has to do registration for enrolled course for appearing in the exam; 'Click to register for Certification Exam'.

https://onlinecourses.nptel.ac.in/noc25\_ee157/announcements?force=true#registration\_confirmation

NPTEL » Analog Electronic Circuits - IITKGP

Announcements About the Course Q&A Progress Mentor Review Assignment

Click to register for Certification exam

If already registered, click to check your payment status

Course outline

About NPTEL

How does an NPTEL online course work?

WEEK 0

There are new announcements since your last visit. Please have a look.

Feedback on NPTEL Translation and Transcripts!!

2025-07-14

Dear Learners,

Do you find the English difficult to follow in the NPTEL course?  
Would it be easier and help you if the videos had subtitles in Indian languages?

We have great news for you! The videos in this course have been translated into Hindi, Telugu

But how do you change the subtitles? Follow the steps below.

(v) On 'Exam Dashboard', Go to 'Personal Info', fill the required information.

Timelines and Guidelines and [Final Course List](#)'. An 'Important Note' box states: 'Kindly use the latest versions of Google Chrome or Mozilla Firefox to fill in the Application Form. Mouse to move between fields for entry of data instead of using Tab Key. Fields marked with \* are mandatory.' A 'Go to Personal Info' button is at the bottom." data-bbox="227 112 865 322"/>

FREE ONLINE EDUCATION  
**swayam**  
SABKI NAAL JABHI NAAL

Jul - Dec 2025 Exam Form

Select Exam Semester

Hi navkaur1588@gmail.com

**Exam Dashboard**

Welcome to the NPTEL Exam Form registration page.

Personal Info

Before you start, please go through the [Timelines and Guidelines](#) and [Final Course List](#).

**Important Note:** Kindly use the latest versions of Google Chrome or Mozilla Firefox to fill in the Application Form. Mouse to move between fields for entry of data instead of using Tab Key. Fields marked with \* are mandatory.

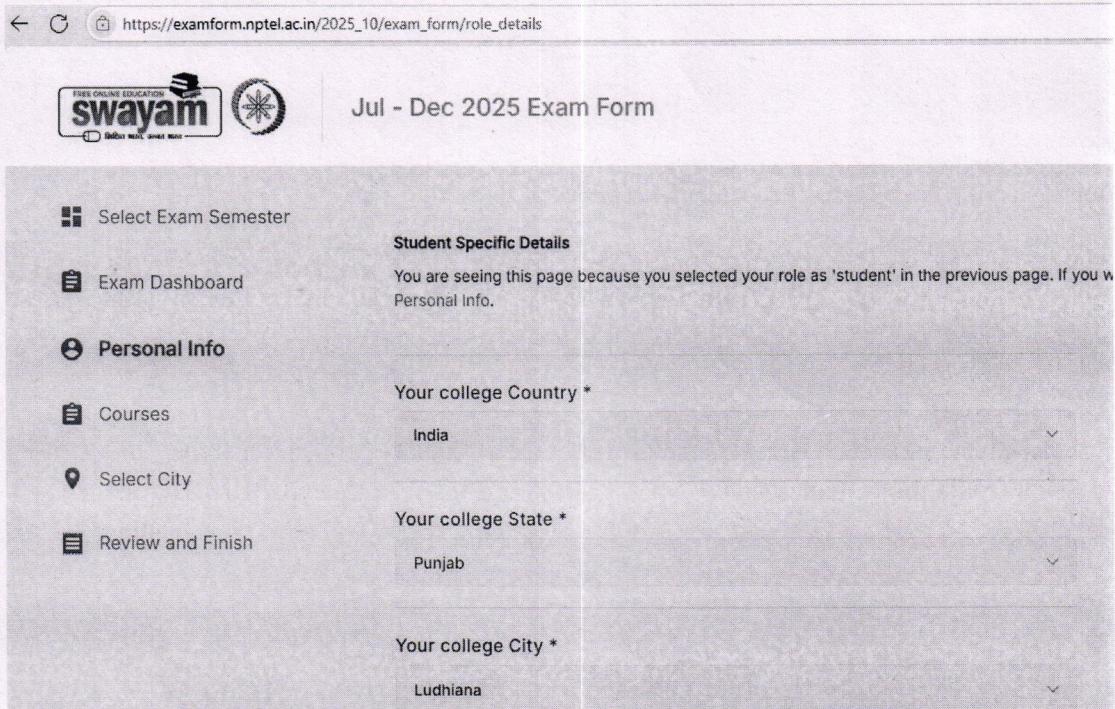
Courses

Select City

Review and Finish

Go to Personal Info

(vi) Fill 'Student Specific Details' i.e. College Name, Degree, Department, Year of Study, APAAR/ABC ID etc. **Student has to tick 'Yes', when asked about sharing scores with college.**



FREE ONLINE EDUCATION  
**swayam**  
SABKI NAAL JABHI NAAL

Jul - Dec 2025 Exam Form

Select Exam Semester

**Student Specific Details**

You are seeing this page because you selected your role as 'student' in the previous page. If you w...

Exam Dashboard

Personal Info

Courses

Select City

Review and Finish

Your college Country \*

India

Your college State \*

Punjab

Your college City \*

Ludhiana

01/01/2024



### Jul - Dec 2025 Exam Form

Electronics and Communication Engineering

Year of study \*

2nd Year

Are you taking this exam for Credit Transfer? \*

Yes  No

Do you have an APAAR / Academic Bank of Credits Identification? \*

Yes  No

If Yes - Please ensure that the Name, Gender and Date of birth entered in the form match the details on your AADHAAR card. Failure to do so will result in the failure of your credit transfer.

Can we share score with your college? \*

Yes  No

I agree and understand that my registration details, hall ticket, exam score and e-certificate will be shared with my SPOC and college.

**Save and Continue**

(vii) 'Add Course' for payment; select 'Exam Date' and 'Exam Cities'. Further 'Confirm and Pay'. Pay Applicable Exam Fee.

Jul - Dec 2025 Exam Form

Select Exam Semester

Important Note: Selected Exam Date is subjected to change based on seat availability. You can check final Exam Date on your hall ticket.

Analog Electronic Circuits - IITKGP

Selected Exam Date: Sunday, November 02, 2025

Add Exam City And Proceed To Pay

Info Remove

+ Add Course Select Exam Cities

Courses

Review and Finish

Review and Finish

*D. T. J. M.*



Jul - Dec 2025 Exam Form

Select Exam Semester

Exam Dashboard

Personal Info

Courses

Select City

Review and Finish

Select ExamCity

Edit

Analog Electronic Circuits - IITKGP: Sunday, November 02, 2025  
Price: ₹ 1000

First Preference

Punjab Ludhiana

First Preference City Pincode  
141013

Second Preference

Punjab Jalandhar

Third Preference

If exam city choices 1 and 2 are not available, you will be allotted to this 3rd choice exam city. Please choose this exam city very carefully.

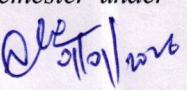
Punjab Chandigarh/Mohali

Confirm and pay

**Note:** If student does not share information with GNDEC Swayam-NPTEL Local Chapter at any step while enrolling or registering for the course, then the course shall not be considered by the college.

7. Student must keep visiting NPTEL official website <https://onlinecourses.nptel.ac.in/> for updated information.
8. Kindly note that the aforementioned steps may be subject to change based on NPTEL's specific procedures. So, the student must register carefully.

**Encl:** List of Open Electives offered through Swayam-NPTEL platform for B.Tech. 4<sup>th</sup> Semester under Scheme Code-2024 for Session Jan-June, 2026.

  
AR (Academics)

Cc: Principal- for information, please, (ii) All HoDs (UG Engineering), (iii) Dean Academics- for information, please. (iv) SPOC-Swayam NPTEL Local Chapter, (v) Mr. Ajay Verma- for uploading on Notice Board, (vi) Dealing Hand- Ms. Satwinder Kaur

AS/81/2384

Dated 01-01-2026

## GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA

List of Open Electives offered through Swayam-NPTEL Platform for B.Tech. 4th Semester under Scheme Code-2024 for Session: Jan-June 2026

Sr. No	Course ID	Course Name	Institute	Course URL	Offering Dept.	Applicable UG Engg. Programs	Course Start Date	Course Enrolment Last Date*
1	noc26-ce11	Smart Cities	IIT Indore	<a href="https://onlinecourses.nptel.ac.in/noc26_ce11/preview">https://onlinecourses.nptel.ac.in/noc26_ce11/preview</a>	CE	CSE,EE,ECE,IT, ME	19-Jan-26	26-Jan-26
2	noc26-ce56	Basic Construction Materials	IIT Madras	<a href="https://onlinecourses.nptel.ac.in/noc26_ce56/preview">https://onlinecourses.nptel.ac.in/noc26_ce56/preview</a>	CE	CSE,EE,ECE,IT, ME	19-Jan-26	26-Jan-26
3	noc26-ce74	Air Pollution and Control	IIT Roorkee	<a href="https://onlinecourses.nptel.ac.in/noc26_ce74/preview">https://onlinecourses.nptel.ac.in/noc26_ce74/preview</a>	CE	CSE,EE,ECE,IT, ME	19-Jan-26	26-Jan-26
4	noc26-cs22	Introduction to Embedded System Design	IIT Delhi	<a href="https://onlinecourses.nptel.ac.in/noc26_cs22/preview">https://onlinecourses.nptel.ac.in/noc26_cs22/preview</a>	CSE	CE,EE,ME	19-Jan-26	26-Jan-26
5	noc26-cs35	Computer Networks and Internet Protocol	IIT Kharagpur	<a href="https://onlinecourses.nptel.ac.in/noc26_cs35/preview">https://onlinecourses.nptel.ac.in/noc26_cs35/preview</a>	CSE	CE,EE,ME	19-Jan-26	26-Jan-26
6	noc26-cs36	Programming in Java	IIT Kharagpur	<a href="https://onlinecourses.nptel.ac.in/noc26_cs36/preview">https://onlinecourses.nptel.ac.in/noc26_cs36/preview</a>	CSE	CE,EE,ECE,ME	19-Jan-26	26-Jan-26
7	noc26-cs38	Introduction to Industry 4.0 and Industrial Internet of Things	IIT Kharagpur	<a href="https://onlinecourses.nptel.ac.in/noc26_cs38/preview">https://onlinecourses.nptel.ac.in/noc26_cs38/preview</a>	CSE	CE,EE,ECE,ME	19-Jan-26	26-Jan-26
8	noc26-cs74	Introduction to Machine Learning	IIT Madras	<a href="https://onlinecourses.nptel.ac.in/noc26_cs74/preview">https://onlinecourses.nptel.ac.in/noc26_cs74/preview</a>	CSE	CE, ME	19-Jan-26	26-Jan-26
9	noc26-ee13	Sensors and Actuators	IISc Bangalore	<a href="https://onlinecourses.nptel.ac.in/noc26_ee13/preview">https://onlinecourses.nptel.ac.in/noc26_ee13/preview</a>	EE	CE, CSE, ECE, IT, ME	19-Jan-26	26-Jan-26
10	noc26-ch42	Matlab Programming for Numerical Computation	IIT Madras	<a href="https://onlinecourses.nptel.ac.in/noc26_ch42/preview">https://onlinecourses.nptel.ac.in/noc26_ch42/preview</a>	EE	CE, CSE, IT, ME	19-Jan-26	26-Jan-26
11	noc26-ee14	Fundamentals of Semiconductor Devices	IISc Bangalore	<a href="https://onlinecourses.nptel.ac.in/noc26_ee14/preview">https://onlinecourses.nptel.ac.in/noc26_ee14/preview</a>	ECE	CE,CSE ME,IT	19-Jan-26	26-Jan-26
12	noc26-ee54	Digital Electronic Circuits	IIT Kharagpur	<a href="https://onlinecourses.nptel.ac.in/noc26_ee54/preview">https://onlinecourses.nptel.ac.in/noc26_ee54/preview</a>	ECE	CE, ME	19-Jan-26	26-Jan-26
13	noc26-cs82	Social Networks	IIT Ropar	<a href="https://onlinecourses.nptel.ac.in/noc26_cs82/preview">https://onlinecourses.nptel.ac.in/noc26_cs82/preview</a>	IT	CE,EE,ECE,ME	19-Jan-26	26-Jan-26

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14	noc26-cs70	Human Computer Interaction	IIIT Delhi	<a href="https://onlinecourses.nptel.ac.in/noc26-cs70/preview">https://onlinecourses.nptel.ac.in/noc26-cs70/preview</a>	IT	CE,EE,ECE,ME	19-Jan-26	26-Jan-26
15	noc26-de14	Strategies for Sustainable Design	IIT Hyderabad	<a href="https://onlinecourses.nptel.ac.in/noc26-de14/preview">https://onlinecourses.nptel.ac.in/noc26-de14/preview</a>	ME	CE,CSE,EE,ECE,IT	19-Jan-26	26-Jan-26
16	noc26-me01	Robotics: Basics and Selected Advanced Concepts	IISc Bangalore	<a href="https://onlinecourses.nptel.ac.in/noc26-me01/preview">https://onlinecourses.nptel.ac.in/noc26-me01/preview</a>	ME	CE,CSE,EE,ECE,IT	19-Jan-26	26-Jan-26
17	noc26-me29	Power Plant System Engineering	IIT Guwahati	<a href="https://onlinecourses.nptel.ac.in/noc26-me29/preview">https://onlinecourses.nptel.ac.in/noc26-me29/preview</a>	ME	CE,CSE,EE,ECE,IT	19-Jan-26	26-Jan-26
18	noc26-me42	Elements of Solar Energy Conversion	IIT Kanpur	<a href="https://onlinecourses.nptel.ac.in/noc26-me42/preview">https://onlinecourses.nptel.ac.in/noc26-me42/preview</a>	ME	CE,CSE,EE,ECE,IT	19-Jan-26	26-Jan-26
19	noc26-me49	Product Design and Manufacturing	IIT Kanpur	<a href="https://onlinecourses.nptel.ac.in/noc26-me49/preview">https://onlinecourses.nptel.ac.in/noc26-me49/preview</a>	ME	CE,CSE,EE,ECE,IT	19-Jan-26	26-Jan-26
20	noc26-me74	Operations Management	IIT Roorkee	<a href="https://onlinecourses.nptel.ac.in/noc26-me74/preview">https://onlinecourses.nptel.ac.in/noc26-me74/preview</a>	ME	CE,CSE,EE,ECE,IT	19-Jan-26	26-Jan-26

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