



Government Polytechnic Lakhisarai

Department of Electrical Engineering

¼North of Vidyapeeth Chowk Lakhisarai- 811311½

9.4 Library and Internet

9.4.1 Library:-

The Central Library of Government Polytechnic Lakhisarai serves as a major academic resource centre supporting teaching, learning, research, innovation, and self-learning. The library provides adequate print and digital learning resources for students, faculty members, and staff in accordance with AICTE and NBA requirements.

The institute continuously strengthens its library collection by adding new textbooks, reference books, competitive examination books, journals, magazines, newspapers, and digital resources every academic year. The library also provides internet-enabled facilities and a digital library to support modern engineering education.

9.4.1 Quality of Learning Resources

A. Availability of Relevant Learning Resources including E-Resources and Digital Library.

The institute library maintains an extensive collection of learning resources covering Mechanical Engineering, Civil Engineering, Electrical Engineering, Electronics Engineering, Computer Science & Engineering, Science, Mathematics, Humanities, Management, Entrepreneurship, Environmental Studies, and General Engineering subjects.

The library collection includes textbooks and reference books published by reputed national and international publishers such as:

- Prentice Hall
- McGraw-Hill Education
- Tata McGraw-Hill
- Pearson Education
- Wiley India
- S. Chand Publishing
- Khanna Book Publishing Co.
- Dhanpat Rai & Sons



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- Laxmi Publications
- PHI Learning
- Technical Publications
- Cengage Learning
- Elsevier
- Springer
- Katson Publication

These resources enable students to strengthen conceptual understanding, improve analytical abilities, prepare for examinations, undertake project work, and support lifelong learning.

In addition to printed books, the institute provides access to:

- Digital Library
- E-learning resources
- Online technical study materials
- Previous year question papers
- Project reports
- Competitive examination books
- Daily newspapers
- Internet-enabled reference services

Table 9.4.1(a): Learning Resources Available During the Last Four Academic Years

Sl. No.	Learning Resource	2025–26	2024–25	2023–24	2022–23
1	Books	10,915	10,243	8,122	6,645

Observation

The institute has consistently enriched its library collection every academic year. The total number of books has increased from **6,645 in 2022–23** to **10,915 in 2025–26**, reflecting the institute's commitment towards strengthening academic resources.



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Table 9.4.1(b): Print Learning Resources

Sl. No.	Learning Resource	No. of Titles	No. of Volumes
1	Books	2,444	10,915
2	Journals / Periodicals	48	48

Digital Library Facilities

The institute has established a Digital Library equipped with internet-connected computer systems for accessing electronic learning resources.

The Digital Library provides access to:

- E-books
- Online study materials
- Open Educational Resources (OER)
- NPTEL Video Lectures
- SWAYAM Courses
- AICTE Learning Resources
- National Digital Library (NDLI)
- Technical standards and manuals
- Research articles (Open Access)
- Previous year question papers
- Project reports
- LMS

These facilities encourage self-learning and technology-enabled education.

B. Accessibility to Students

The Central Library is designed to provide easy and equitable access to learning resources for all Students and Faculties.

The following facilities are available:

- Spacious and well-furnished reading room.
- Open access system for easy retrieval of books.



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- Printed and digital resources accessible to students, faculty, and staff.
- Dedicated Digital Library with internet-enabled computers.
- Daily newspapers and technical magazines.
- Competitive examination books.
- Comfortable seating arrangement for study.
- Proper lighting and ventilation.
- Book circulation through issue-return system.
- Reference services by library staff.

Book Circulation Policy

- Students are permitted to issue **2–3 books** at a time.
- Books are issued for a prescribed borrowing period.
- Renewal facility is available as per library rules.
- Faculty members may borrow books as per institutional norms.

Library Working Hours

Particular	Details
Working Hours	10:00 AM – 5:00 PM
Working Days	All working days except Sundays and Government Holidays (DSTTE Bihar / SBTE Bihar)

Other Facilities Available in Library

- Reading Room Facility
- Digital Library
- Computer Systems
- High-Speed Internet Access
- Competitive Examination Books
- Magazines
- Daily Newspapers
- Book Issue & Return Counter
- Online Learning Support



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9.4.2 Internet (10 Marks)

The institute provides high-speed internet connectivity throughout the campus to support academic activities, online learning, digital library services, research, administration, and communication.

The campus network enables uninterrupted access to online educational resources for students and faculty members.

A. Available Bandwidth

The institute has a **500 Mbps Broadband Internet Connection** provided by **BSNL**.

The bandwidth is sufficient to support:

- Digital Library
- Online Classes
- Virtual Laboratories
- NPTEL/SWAYAM Courses
- Video Conferencing
- Research Activities
- Administrative Work
- Online Examination Activities
- Virtual Video/Audio Meeting
- Virtual Video/Audio Conferencing
- Spoken Tutorial/Cisco Learning
- KYP
- Online FDP/STTP
- Online seminar/Workshop

B. Wi-Fi Availability



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Campus-wide Wi-Fi connectivity is available.

Wi-Fi access is provided in:

- Academic Blocks
- Library
- Laboratories
- Faculty Rooms
- Administrative Offices
- Workshop
- Classrooms
- Computer Section
- Smart Classrooms
- Principal Office
- Reprographic section

The facility enables students and faculty members to access online learning resources from various locations within the campus.

C. Internet Access in Laboratories, Classrooms, Library and Offices

Internet connectivity is available in:

- Computer Laboratories
- Departmental Laboratories
- Smart Classrooms
- Central Library
- Digital Library
- Administrative Offices
- Principal's Office
- Department Offices
- Faculty Rooms

The internet facility supports:



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- Online practical sessions
- Technical presentations
- Learning Management Systems
- Research and Project Work
- Digital Content Access etc

D. Security Arrangements (2 Marks)

To ensure secure and reliable network operation, the institute has implemented appropriate security measures.

These include:

- Firewall protection
- Secure Wi-Fi authentication
- Antivirus-enabled computer systems
- Password-protected administrative access
- Regular software updates
- Network monitoring and maintenance
- Controlled internet access for institutional use
- Data backup and system security practices

Internet Facility Summary

Particular	Details
Internet Service Provider	BSNL
Available Bandwidth	500 Mbps
Wi-Fi Facility	Available
Internet Access	Available in Labs, Classrooms, Library and Offices etc.
Network Security	Firewall, Antivirus, Authentication & Secure Access etc.

Conclusion:-



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Government Polytechnic Lakhisarai has developed adequate library and internet infrastructure in line with AICTE and NBA quality requirements. The continuous enhancement of learning resources, digital library services, high-speed internet connectivity, campus-wide Wi-Fi, and secure network facilities significantly contributes to effective teaching-learning processes, self-learning, innovation, and research. The institute remains committed to further strengthening these facilities to support Outcome-Based Education (OBE) and lifelong learning.

NATIONAL PROGRAMME ON TECHNOLOGY ENHANCED LEARNING

A JOINT VENTURE BY INDIAN INSTITUTES OF TECHNOLOGY & INDIAN INSTITUTE OF SCIENCE

NPTEL

2020-07-31

To
The Principal
GOVERNMENT POLYTECHNIC, LAKHISARAI
NORTH OF VIDYAPEETH CHOWK, LAKHISARAI, BIHAR 811311

Dear Sir/Madam,

Sub: Establishing SWAYAM NPTEL Local Chapter in your college

Greetings from the NPTEL office.

This is to acknowledge the receipt of your letter accepting to host SWAYAM NPTEL Local Chapter in your institution.

The **Single Point of Contact (SPOC)** nominated from your college is

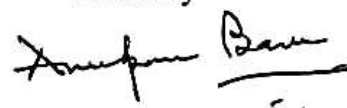
Name of SPOC: RAJESH KUMAR
Designation: LECTURER
Department: ELECTRONICS ENGINEERING
Contact No(s): 9431006838
E-mail id: rajeshbit070620@gmail.com

We wish to inform you that all future correspondence related to NPTEL contents and online courses will be made to the afore-mentioned SPOC. He/she will be routinely updated with all the latest NPTEL initiatives which then may be circulated among the students.

We are also happy to share that a dedicated SWAYAM NPTEL Local Chapter web page is being created and institution will have a separate page on it (<http://archive.nptel.ac.in/LocalChapter>)

Thanking you.

Sincerely



Anupam Basu

Chairman and Head Centre for Edu
IIT KHARAGPUR

S.no	Name	Email Id	Course Id	CourseName	College Roll Number	Mobile Number	City	Profession	Qualification	Degree	Department	Study Year	Motivation	Timeline
1	Akriti kumari	akritik985@gmail.com	noc23-me22	Convective Heat Transfer	21/M/13	+91 91538 92679	Lakhisarai	student	diploma	diploma	Mechanical Engineering	2		Jan-Apr 2023
2	Amar kumar	amarkumar1kr273@gmail.com	noc23-me22	Convective Heat Transfer	21/M/21	+91 82710 68271	Lakhisarai	student	diploma	me	Mechanical Engineering	2		Jan-Apr 2023
3	Deonandan Kumar	deonandanraj4@gmail.com	noc23-me23	Convective Heat Transfer	21/M/03	+91 95721 39451	Lakhisarai	student	diploma	diploma	Mechanical Engineering	3		Jan-Apr 2023
4	Gopal kumar	gopalku1112@gmail.com	noc23-ee62	Basic Electronics	6.11232E+11	+91 62042 37239	Doghar	student	diploma	diploma	Electrical Engineering	3		Jan-Apr 2023
5	Harlom shankar	hariomshanker556@gmail.com	noc23-me23	Convective Heat Transfer		+91 82520 74068	Lakhisarai	student	diploma	diploma	Mechanical Engineering	2		Jan-Apr 2023
6	Nishant kumar	infonishant797@gmail.com	noc23-me23	Convective Heat Transfer	21/M/06	+91 62037 62907	Lakhisarai	student	diploma	diploma	Mechanical Engineering	2		Jan-Apr 2023
7	Ishu Kumari	ishukumaribar@gmail.com	noc23-me23	Convective Heat Transfer	21/M/10	+91 79911 57219	Lakhisarai	student	diploma	diploma	Mechanical Engineering	2		Jan-Apr 2023
8	Jitendre kumar	jit01020304@gmail.com	noc23-me23	Convective Heat Transfer	21/M/23	+91 96930 64424	Lakhisarai	student	diploma	diploma	Mechanical Engineering	2		Jan-Apr 2023
9	narayan kumar	kumarnarayan058@gmail.com	noc23-ee52	Power System Engineering	20103158921	+91 72730 28716	Koura	student	diploma	btech	Electrical Engineering	4		Jan-Apr 2023
10	narayan kumar	kumarnarayan058@gmail.com	noc23-ee54	Network Analysis	20103158921	+91 72730 28716	Koura	student	diploma	btech	Electrical Engineering	4		Jan-Apr 2023
11	Sumit kumar	kumarsumit23833@gmail.com	noc23-me23	Convective Heat Transfer	21/M/11	+91 62917 81440	Lakhisarai	student	diploma	diploma	Mechanical Engineering	2		Jan-Apr 2023
12	Mamta Kumari	mamtakrnwd854@gmail.com	noc23-bt02	मार्तु शिशु युवा बाल पोषण	L-21-EE-78	+91 75430 67760	Nawada	student	diploma	btech	Electrical Engineering	3		Jan-Apr 2023
13	Mamta Kumari	mamtakrnwd854@gmail.com	noc23-ee03	Fundamental of Power Electronics	L-21-EE-78	+91 75430 67760	Nawada	student	diploma	btech	Electrical Engineering	3		Jan-Apr 2023
14	Mamta Kumari	mamtakrnwd854@gmail.com	noc23-ee05	Principles of Communication Systems - I	L-21-EE-78	+91 75430 67760	Nawada	student	diploma	btech	Electrical Engineering	3		Jan-Apr 2023
15	Mamta Kumari	mamtakrnwd854@gmail.com	noc23-ee16	Control engineering	L-21-EE-78	+91 75430 67760	Nawada	student	diploma	btech	Electrical Engineering	3		Jan-Apr 2023
16	Mamta Kumari	mamtakrnwd854@gmail.com	noc23-ee50	Digital Electronic Circuits	L-21-EE-78	+91 75430 67760	Nawada	student	diploma	btech	Electrical Engineering	3		Jan-Apr 2023
17	Mamta Kumari	mamtakrnwd854@gmail.com	noc23-ee55	Electrical Machines - II	L-21-EE-78	+91 75430 67760	Nawada	student	diploma	btech	Electrical Engineering	3		Jan-Apr 2023
18	Mamta Kumari	mamtakrnwd854@gmail.com	noc23-ee62	Basic Electronics	L-21-EE-78	+91 75430 67760	Nawada	student	diploma	btech	Electrical Engineering	3		Jan-Apr 2023
19	Mamta Kumari	mamtakrnwd854@gmail.com	noc23-ee73	Communication Networks	L-21-EE-78	+91 75430 67760	Nawada	student	diploma	btech	Electrical Engineering	3		Jan-Apr 2023
20	Mamta Kumari	mamtakrnwd854@gmail.com	noc23-hs17	Education for Sustainable Development	L-21-EE-78	+91 75430 67760	Nawada	student	diploma	btech	Electrical Engineering	3		Jan-Apr 2023
21	Mamta Kumari	mamtakrnwd854@gmail.com	noc23-hs18	Training and Development	L-21-EE-78	+91 75430 67760	Nawada	student	diploma	btech	Electrical Engineering	3		Jan-Apr 2023
22	Mamta Kumari	mamtakrnwd854@gmail.com	noc23-hs52	English Language for Competitive Exams	L-21-EE-78	+91 75430 67760	Nawada	student	diploma	btech	Electrical Engineering	3		Jan-Apr 2023
23	MANNU KUMAR	mannukumar392000@gmail.com	noc23-ee03	Fundamental of Power Electronics	L-21-EE-94	+91 62074 09723	Lakhisarai	student	diploma	btech	Electrical Engineering	3		Jan-Apr 2023
24	MANNU KUMAR	mannukumar392000@gmail.com	noc23-ee04	Principles of Signals and Systems	L-21-EE-94	+91 62074 09723	Lakhisarai	student	diploma	btech	Electrical Engineering	3		Jan-Apr 2023
25	MANNU KUMAR	mannukumar392000@gmail.com	noc23-ee14	Signals and Systems	L-21-EE-94	+91 62074 09723	Lakhisarai	student	diploma	btech	Electrical Engineering	3		Jan-Apr 2023
26	MANNU KUMAR	mannukumar392000@gmail.com	noc23-ee16	Control engineering	L-21-EE-94	+91 62074 09723	Lakhisarai	student	diploma	btech	Electrical Engineering	3		Jan-Apr 2023
27	MANNU KUMAR	mannukumar392000@gmail.com	noc23-ee47	Microprocessors And Microcontrollers	L-21-EE-94	+91 62074 09723	Lakhisarai	student	diploma	btech	Electrical Engineering	3		Jan-Apr 2023
28	MANNU KUMAR	mannukumar392000@gmail.com	noc23-ee50	Digital Electronic Circuits	L-21-EE-94	+91 62074 09723	Lakhisarai	student	diploma	btech	Electrical Engineering	3		Jan-Apr 2023
29	MANNU KUMAR	mannukumar392000@gmail.com	noc23-ee77	Analog Electronic Circuits - IITM	L-21-EE-94	+91 62074 09723	Lakhisarai	student	diploma	btech	Electrical Engineering	3		Jan-Apr 2023
30	Rahul	rahulrajyadav360@gmail.com	noc23-me65	Thermodynamics	L-21ME-203	+91 83404 94766	Munger	student	bachelor4yr	btech	Mechanical Engineering	2		Jan-Apr 2023
31	Vikash Kumar Yadav	rajvikash7970@gmail.com	noc23-me23	Convective Heat Transfer	21/M/LE/601	+91 79705 53142	Lakhisarai	student	diploma	diploma	Mechanical Engineering	2		Jan-Apr 2023
32	Puja kumari	rinakumari21102001@gmail.com	noc23-ce50	Concrete Technology	19132	+91 91425 37269	Bhagalpur	student	pre_university	btech	Civil Engineering	3		Jan-Apr 2023
33	Ritik Kumar	ritikku614@gmail.com	noc23-me23	Convective Heat Transfer		+91 91372 97559	Lakhisarai	student	diploma	me	Mechanical Engineering	3		Jan-Apr 2023
34	Sandeep Kumar	sandeepkumar66577@gmail.com	noc23-me23	Convective Heat Transfer	21/M/25	+91 91175 98670	Lakhisarai	student	diploma	diploma	Mechanical Engineering	2		Jan-Apr 2023
35	SANJANA KUMARI	sanjana01kumari02@gmail.com	noc23-cs07	Advanced computer architecture	Le-30272	+91 97983 51015	Lakhisarai	student	bachelor3yr	btech	Electrical Engineering	3		Jan-Apr 2023
36	SANJANA KUMARI	sanjana01kumari02@gmail.com	noc23-cs44	Ethical Hacking	Le-30272	+91 97983 51015	Lakhisarai	student	bachelor3yr	btech	Electrical Engineering	3		Jan-Apr 2023
37	SANJANA KUMARI	sanjana01kumari02@gmail.com	noc23-ee19	Analog Circuits	Le-30272	+91 97983 51015	Lakhisarai	student	bachelor3yr	btech	Electrical Engineering	3		Jan-Apr 2023
38	SANJANA KUMARI	sanjana01kumari02@gmail.com	noc23-ee47	Microprocessors And Microcontrollers	Le-30272	+91 97983 51015	Lakhisarai	student	bachelor3yr	btech	Electrical Engineering	3		Jan-Apr 2023
39	SANJANA KUMARI	sanjana01kumari02@gmail.com	noc23-ee48	Analog Electronic Circuits - IITKGP	Le-30272	+91 97983 51015	Lakhisarai	student	bachelor3yr	btech	Electrical Engineering	3		Jan-Apr 2023
40	SANJANA KUMARI	sanjana01kumari02@gmail.com	noc23-ee52	Power System Engineering	Le-30272	+91 97983 51015	Lakhisarai	student	bachelor3yr	btech	Electrical Engineering	3		Jan-Apr 2023
41	SANJANA KUMARI	sanjana01kumari02@gmail.com	noc23-ee54	Network Analysis	Le-30272	+91 97983 51015	Lakhisarai	student	bachelor3yr	btech	Electrical Engineering	3		Jan-Apr 2023
42	SANJANA KUMARI	sanjana01kumari02@gmail.com	noc23-ee55	Electrical Machines - II	Le-30272	+91 97983 51015	Lakhisarai	student	bachelor3yr	btech	Electrical Engineering	3		Jan-Apr 2023
43	SANJANA KUMARI	sanjana01kumari02@gmail.com	noc23-mg41	Ethics In Engineering Practice	Le-30272	+91 97983 51015	Lakhisarai	student	bachelor3yr	btech	Electrical Engineering	3		Jan-Apr 2023
44	Shivjee Kumar	shivjee41331@gmail.com	noc23-me23	Convective Heat Transfer	21/M/22	+91 62074 36626	Lakhisarai	student	diploma	diploma	Mechanical Engineering	3		Jan-Apr 2023
45	Shrithesh Kumar Jayant	shritheshkumarjayant2003@gmail.com	noc23-me23	Convective Heat Transfer	21/M/08	+91 98359 49862	Lakhisarai	student	diploma	diploma	Mechanical Engineering	2		Jan-Apr 2023
46	Shrithesh Kumar Jayant	shritheshkumarjayant2004@gmail.com	noc23-me23	Convective Heat Transfer	21/M/08	+91 98359 49862	Lakhisarai	student	diploma	me	Mechanical Engineering	3		Jan-Apr 2023
47	Sumit Kumar	sumitkumarclg8877@gmail.com	noc23-me23	Convective Heat Transfer	21/M/12	+91 76349 13312	Lakhisarai	student	diploma	diploma	Mechanical Engineering	2		Jan-Apr 2023
48	SURAJ KUMAR	suraj10m26@gmail.com	noc23-me14	Product Design and Manufacturing	21/M/05	+91 77668 87621	Lakhisarai	faculty	bachelor4yr		Mechanical Engineering	None		Jan-Apr 2023
49	SURAJ KUMAR	suraj10m26@gmail.com	noc23-mm0	Material Characterization		+91 77668 87621	Lakhisarai	faculty	bachelor4yr		Mechanical Engineering	None		Jan-Apr 2023
50	Sushant kumar	sushant2by@gmail.com	noc23-me23	Convective Heat Transfer	21/M/05	+91 62074 84930	Lakhisarai	student	diploma	me	Mechanical Engineering	3		Jan-Apr 2023
51	Sushant kumar	sushantkumar2by@gmail.com	noc23-me23	Convective Heat Transfer	21/M/05	+91 62074 84960	Lakhisarai	student	diploma	me	Mechanical Engineering	2		Jan-Apr 2023
52	Sweety Kumari	sweetykumariasarganj10@gmail.com	noc23-ee62	Basic Electronics	L-21-EE-77	+91 95341 84639	Asarganj	student	diploma	btech	Electrical Engineering	2		Jan-Apr 2023
53	Sweety Kumari	sweetykumariasarganj10@gmail.com	noc23-hs30	Enhancing Soft Skills and Personality	L-21-EE-77	+91 95341 84639	Asarganj	student	diploma	btech	Electrical Engineering	2		Jan-Apr 2023
54	Shivam Tripathi	tripathicvam286@gmail.com	noc23-ce03	Geotechnical Engineering - 1	L200111	+91 62994 28442	Lakhisarai	student	bachelor4yr	btech	Civil Engineering	3		Jan-Apr 2023
55	Ved Prakash Rajak	vedprakashrk122@gmail.com	noc23-me22	Convective Heat Transfer	21/M/04	+91 72568 60519	Lakhisarai	student	diploma	diploma	Mechanical Engineering	2		Jan-Apr 2023



अखिल भारतीय तकनीकी शिक्षा परिषद



प्रमाणित किया जाता है कि

सूरज कुमारी

एनआईटीटीटी पंजीयन क्रमांक : 20202111203

ने

राष्ट्रीय तकनीकी शिक्षक प्रशिक्षण पहल के अंतर्गत

- मॉड्यूल 1 : तकनीकी शिक्षा और पाठ्यचर्या पहलुओं का अभिविन्यास
मॉड्यूल 2 : वृत्तिक आचार नीति और संधारणीयता
मॉड्यूल 3 : संचार कौशल, मोड और ज्ञान प्रसार
मॉड्यूल 4 : अनुदेशात्मक योजना और सुपुर्दगी
मॉड्यूल 5 : प्रौद्योगिकी समर्थित अधिगम और आजीवन स्वाधिगम
मॉड्यूल 6 : छात्र निर्धारण और मूल्यांकन
मॉड्यूल 7 : सृजनात्मक समस्या समाधान, नवाचार और सार्थक आर & डी
मॉड्यूल 8 : संस्थागत प्रबंधन और प्रशासनिक कार्यविधि
- को सफलता पूर्वक पूर्ण किया।

All India Council for Technical Education (AICTE)



This is to certify that

SURAJ KUMAR

NITTTT Registration No: 20202111203

has successfully completed

- Module 1 : Orientation towards Technical Education and Curriculum Aspects
Module 2 : Professional Ethics and Sustainability
Module 3 : Communication Skills, Modes and Knowledge Dissemination
Module 4 : Instructional Planning and Delivery
Module 5 : Technology Enabled Learning and Life-Long Self Learning
Module 6 : Student Assessment and Evaluation
Module 7 : Creative problem Solving, innovation and Meaningful R & D
Module 8 : Institutional Management and Administrative Procedures

of

National Initiative for Technical Teachers Training

Signature

Director
NITTTT, Bhopal



Signature

Director
NITTTT, Chandigarh



Signature

Member Secretary
AICTE



Signature

Director
NITTTT, Chennai



Signature

Director
NITTTT, Kolkata



FEBRUARY 2022



CamScanner



NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

SURAJ KUMAR

for successfully completing the course

Product Design and Manufacturing

with a consolidated score of 72 %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



(Jan-Apr 2023)



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

SURAJ KUMAR

for successfully completing the course

Product Design and Manufacturing

with a consolidated score of **72** %

Online Assignments	20.6/25	Proctored Exam	51/75
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Total number of candidates certified in this course: **1673**

Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Jan-Apr 2023

(12 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL20EE22S1816519

To

RAJESH KUMAR
RAJESH KUMARGOVERNMENT POLYTECHNIC
LAKHISARAINORTH OF VIDYAPEETH CHOWK
LAKHISARAI
BIHAR-811311
PH. NO :9576811989



No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



NPTEL Online Certification

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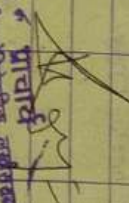
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Sl. No.	Ques.	Topic	Ans.	Ref.	Page	Ques. No.	Ques.	Ques. No.	Ques. No.
425	6297	Strength of materials	Subramanian	Nikas Pub.	10	550/-	5500/-	11.3	
	98	Strength of materials	Bhavikatti, S.S.						
	99	"	"						
	6300	"	"						
	01	"	"						
	02	"	"						
	03	"	"						
	04	"	"						
	05	"	"						
	06	"	"						
	07	"	"						
426	08	Strength of material through Ques. & Ans.	Jindal	Made Easy	05	400/-	2000/-	11.4	
	09	"	"						
	10	"	"						
	11	"	"						
	12	"	"						
427	13	Theory of machine	Khurmi, Gupta	S. Chand.	20	699/-	13980/-	40.3	
	14	"	"						
	15	"	"						
	16	"	"						
	17	"	"						
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	30	"	"						

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6999	Workshop Technology - II	"	"	"	"
6400	"	"	"	"	"
01	"	"	"	"	"
02	"	"	"	"	"


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22

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6946	Immigration Engg. & Hydraulic Structural	Chakraborty				
47	"					
48	"					
49	"					
50	"					
51	"					
52	"					
53	"					
54	Lechness on Engineering Physics	Naharona	10	359/-	3590/-	20.4
55	"					
56	"					
57	"					
58	"					
59	"					
60	"					
61	"					
62	"					
63	"		10	399/-	3990/-	6.2
64	Linear Integrated Circuits	Choudhary				
65	"					
66	"					
67	"					
68	"					
69	"					
70	"					
71	"					
72	"					
73	"					
74	Material Science & Metallurgy	O.P. Khanna	04	455/-	1820/-	
75	"					
76	"					
77	"					
78	Mechanics	Golten	02	850/-	1700/-	
79	"					

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569	7261 Microwave & Radar Engineering	Kulkarni			05	575/-	2875/-	5.4
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570	7266 microwave Engineering	S. Das			10	1050/-	10500/-	6.4
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74	"							
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571	7276 SSC JE 2011: Electrical Engg Physical Part-I	made easy			10	900/-	9000/-	
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78	"							
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572	7286 Gate 2023 Electronics Engineering	made easy			15	975/-	14625/-	5.4
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	34	"					
	35	"					
	36	"		10	850/-	8500/-	
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S85	39	"					
	40	"					
	41	"					
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7462	59	"					
	60	"					
	61	"					
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610	8014	Electric and Hybrid Vehicles	Rabu	20	199/-	3980/-	
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53	10089	INTERNATIONAL JOURNAL OF Hydropower and civil Engg.(issue 1 &2)	Civil Engg.	2800	A-33
54	10091	INTERNATIONAL JOURNAL OF Material science (issue 1 &2)		2800	A-33
55	10093	INTERNATIONAL JOURNAL OF Mechanical and Thermal Engg. (issue 1 &2)	Mech. Engg	2800	A-33
56	10095	INTERNATIONAL JOURNAL OF Mechanics Of Solid (issue 1 &2)	Mech. Engg	2800	A-33
57	10097	INTERNATIONAL JOURNAL OF Research in Circuit, Divices and system (issue 1 &2)	Elect. Engg.	2800	A-33

58	10099	INTERNATIONAL JOURNAL OF Surveying and Structural Engg. (issue: 1 & 2)	Civil Engg.	2800	A-33
59	10101	Asian Journal of Basic Science and Reseach (Issue: 1, 2, 3 & 4)	Basic Sc.	4500	A-33
60	10105	INTERNATIONAL JOURNAL for Research and Development		2000	A-33
61	10106	Jouranl Of Engg. In Industrial Research (Issue: 1& 2)		4000	A-33

Rajesh
Kumar
Ranjan

Digitally signed
by Rajesh Kumar
Ranjan
Date: 2026.02.13
15:02:38 +05'30'

ENTERPRISE BUSINESS (F) SECTION O/o THE CHIEF GENERAL MANAGER, BIHAR TELECOM CIRCLE.	 BSNL BSNL - Bharat Sanchar Nigam Limited	4th Floor SANCHAR SADAN, BUDHA MARG, PATNA (BIHAR)-800 001 Mobile no. : - 9431000583 Email : aoebbr@gmail.com
---	---	--

GSTIN: 10AABCB5576G1Z0 CIN: U74899DL2000GO1107739

COMMERCIAL INVOICE

Invoice Num EB/COLL./2025-26/7001000237-6 Date 09-01-2026

Recipient	The Principal, Government Polytechnic, Lakhisarai		
ShipTo	North of Vidyapeeth Chowk, Lakhisarai-811311		
Service :	500 Mbps ILL(1:1) with DDoS BA	7001000237	CIRCUIT ID 1000598743
Bill Period	01-01-2026 To : 31-03-2026	Recipient GSTIN 10PTNG05360F2DT	Place of Supply Bihar (10)

Product Name / HSN Code	Nos of Days for which the bill is being issued	Quantity	UOM	Rate (Annual) (Rs)	Gross (Rs)	Discount (Rs)	TaxableValue (Rs)
500 Mbps ILL(1:1) with DDoS	90	1	Nos	158067.58	158067.58	0.00	158067.58

CGST (Rs)	(%)	SGST (Rs)	(%)	IGST (Rs)	(%)	InvoiceValue (Rs)
14226	9.00%	14226.00	9.00%	0.00	0.00%	186519.58

Total Invoice Value (Rs.) 1,86,520.00
Rupees One Lakh Eighty-six Thousand Five Hundred And Twenty Only

Please pay the invoice amount latest by : 24-01-2026

PayeID 19125G0

Payment may please be made through RTGS/NEFT to BSNL A/c No.0380002100061706 in Punjab National Bank, Exhibition Road, Patna (IFSC: PUNB0038000) or through A/c payee Cheque or Demand Draft in favour of A. O. (B&A) BSNL % CGMT Bihar Circle Patna and details of payment to be provided on E-mail id- aoebbr@gmail.com.


 09.01.26
 (Authorized Signatory)

कनिष्ठ लेखा अधिकारी (उद्यम/एल.सी.)
 Junior Accounts Officer (EB/LL)
 कार्य: मुख्य महाप्रबंधक, बिहार सर्किल, पटना
 O/o The CGMT, BSNL, Bihar Circle, Patna

Pass for Rs:- 1,86,520/- (One lakh Eighty - Six thousand five hundred twenty only.)


PAID & CANCELLED


Principal
 Govt. Polytechnic, Lakhisarai

Rajesh Kumar Ranjan
 Digitally signed by Rajesh Kumar Ranjan
 Date: 2026.02.13 14:22:55 +05'30'

Sub Voucher No- 101/24
 Sub Voucher Date- 13/01/2026
 Bill No- 168/2025-26
 Date- 13/01/2026
 Bill Reference No- 2026011341706009

Gmail

bsnl lease line

Compose

inbox
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Drafts
More

Labels

[imap] Lakhi
More



Welcome To BSNL

Inbox x

BSNL SUPPORT <BSNL_SUPPORT@ndc.bsnl.co.in>
to me

Dear Customer,

Thank you for choosing BSNL Leased line service. BSNL is a complete telecom solution provider with a wide range of world class services.

Your details are as follows:

Name Of The Customer : Principal Government Polytechnic Lakhisarai

Name Of Service : LEASED LINE

Leased circuit ID : 1000598743

Customer Account Number : 7001000236

Billing Account Number : 7001000237

Commissioning Date : 27.09.2024

Service/Bandwidth : INTERNET LC/500 MBPS

For any query please feel free to contact on BSNL customer care at 18004251957 and login web selfcare portal www.selfcare.bsnl.co.in.

Regards

BSNL Support

One attachment • Scanned by Gmail













Rajesh
Kumar
Ranjan

Digitally signed
by Rajesh Kumar
Ranjan
Date: 2026.02.13
14:23:22 +05'30'

MECH

Government Polytechnic Lakhisarai

Implementing robust cybersecurity measures in a government polytechnic college is essential to protect sensitive information, ensure the safety of digital assets, and provide a secure environment for students, faculty, and administrative staff. Here's a comprehensive plan:

1. Develop a Cybersecurity Policy

- **Formal Guidelines:** Create a cybersecurity policy detailing acceptable use of resources, data protection measures, and responsibilities.
- **Awareness Campaigns:** Inform students and staff about the policy and ensure strict adherence.

2. Secure IT Infrastructure

- **Firewall and Intrusion Detection Systems:** Install firewalls and IDS/IPS to monitor and prevent unauthorized access.
- **Data Encryption:** Encrypt all sensitive data, including student records, faculty details, and administrative data.
- **Regular Software Updates:** Keep all operating systems, software, and applications up to date to address vulnerabilities.

3. User Authentication and Access Control

- **Strong Password Policy:** Enforce complex password requirements and regular password updates.
- **Role-Based Access:** Limit access to sensitive systems and data based on user roles (e.g., administrative staff, students, faculty).
- **Two-Factor Authentication (2FA):** Implement 2FA for all critical systems.

4. Network Security Measures

- **Wi-Fi Security:** Use strong encryption protocols (WPA3) for campus Wi-Fi and separate guest and internal networks.
- **Regular Network Audits:** Conduct periodic audits to identify and address vulnerabilities.
- **MAC Address Filtering:** Restrict network access to registered devices.

5. Endpoint Security

- **Antivirus and Anti-Malware:** Install and maintain reliable antivirus and anti-malware software on all devices.

- **Device Management:** Use endpoint management solutions to monitor and secure devices connected to the network.
- **USB Control:** Restrict the use of external devices like USB drives to prevent malware infections.

6. Backup and Recovery

- **Automated Backups:** Set up automated, secure backups of all critical data to both on-site and off-site locations.
- **Disaster Recovery Plan:** Develop and test a disaster recovery plan to ensure quick recovery in case of cyber incidents.

7. Cybersecurity Awareness and Training

- **Workshops and Seminars:** Regularly conduct training for students and staff on cybersecurity best practices, including phishing awareness.
- **Simulated Cyber Attacks:** Organize drills to test the preparedness of the college community against cyber threats.
- **Cyber Hygiene Practices:** Promote habits like logging out of public devices, avoiding suspicious links, and reporting potential threats.

8. Monitoring and Incident Response

- **Real-Time Monitoring:** Use monitoring tools to detect unusual activities or potential breaches.
- **Incident Response Team (IRT):** Form an IRT to handle cyber incidents and investigate breaches.
- **Incident Reporting System:** Set up an easy-to-use system for reporting cybersecurity concern.

9. Collaboration with Experts

- **Partner with Security Firms:** Work with cybersecurity experts or firms for audits and threat analysis.
- **Engage Students in Projects:** Allow IT students to participate in developing and testing cybersecurity measures as part of their coursework.

10. Legal and Regulatory Compliance

- **Adhere to Standards:** Follow guidelines from bodies like the Indian Computer Emergency Response Team (CERT-In) and relevant educational boards.
- **Data Privacy Laws:** Ensure compliance with data privacy regulations such as the IT Act, 2000.

Example Action Plan for Implementation

Activity	Timeline	Responsibility	Outcome
Draft and communicate cybersecurity policy	Month 1	IT Department	Clear guidelines for all users
Install firewalls and monitoring tools	Month 2	IT Department	Enhanced network security
Conduct cybersecurity workshops	Quarterly	Cybersecurity Committee	Improved awareness and skills
Perform vulnerability assessments	Bi-Annual	External Security Partner	Identification of potential risks
Test disaster recovery plan	Annual	IT Department	Preparedness for cyber incidents

Hello from ActSoftware!

Thanks for your order!

Your order has been received and is now being processed. Your order details are shown below for your reference:

Order #153958 (October 16, 2024)

Product	Quantity	Price
INSTANT DELIVERY  Windows, Mac & Mobile Lifetime 5 Device License Office 365 Professional Plus Lifetime – 5 Devices	9	₹6,291.00
Installation Instructions 1. Make sure you have uninstalled all existing Office editions. 2. Go to http://office.com 3. Sign in with the email and password provided below. You will be prompted to change the password for the first-time login. 4. Install office by clicking on "Install Office" on the top right-hand corner. 5. Once installed, open Word and go to Account. Check if you are logged in with the account we sent.		
Subtotal:		₹6,291.00
Payment method:		PayUBiz
Total:		₹6,291.00

Order Note

Order details

Product	Total
Office 365 Professional Plus Lifetime – 5 Devices × 9	₹6,291.00
Installation Instructions	
1. Make sure you have uninstalled all existing Office editions.	
2. Go to http://office.com	
3. Sign in with the email and password provided below.	
You will be prompted to change the password for the first-time login.	
4. Install office by clicking on “Install Office” on the top right-hand corner.	
5. Once installed, open Word and go to Account. Check if you are logged in with the account we sent.	
Subtotal:	₹6,291.00
Payment method:	PayUBiz
Total:	₹6,291.00
Note:	PRINCIPAL, GOVERNMENT POLYTECHNIC LAKHISARAI

https://actsoftware.net/checkout/order-received/153958/?key=wc_order_TDsqJYuWXVFvf

2/3

10/16/24, 11:14 AM

Checkout - ActSoftware

Order again

Billing address

PRINCIPAL GOVERNMENT POLYTECHNIC LAKHISARAI
NORTH OF VIDYAPEETH CHOWK LAKHISARAI,811311
LAKHISARAI 811311
Bihar
7766887621

gp.lakhi@gmail.com



Bill No - 134/20-21

State Name : Bihar, Code : 10

Terms of Delivery

Destination

Pass for Rs- 34771/- (Thirtyfour Thousand seven hundred seventy one only)

PAID & CANCELLED

[Signature]
13.03.2021
Principal
Govt. Polytechnic, Lakhisarai

Principal
Govt. Polytechnic, Lakhisarai

Tax Invoice

AVYANSH ENTERPRISES - (2023-24)

AT+PO.-B. CHANDI, PS.-CHANDI

Dist- Nalanda, Bihar

GSTIN/UID: 3IOPK2685J1Z2

State Name : Bihar, Code : 10

Contact : 9934107607

E-Mail : sales@avyansh.in

avyansh.in

Consignee

THE PRINCIPAL GOVERNMENT POLYTECHNIC, LAKHISARAI

NORTH OF VIDYAPEETH CHOWK,

LAKHISARAI, BIHAR, 811311

PAN/IT No :

State Name : Bihar, Code : 10

Buyer (if other than consignee)

THE PRINCIPAL GOVERNMENT POLYTECHNIC, LAKHISARAI

NORTH OF VIDYAPEETH CHOWK,

LAKHISARAI, BIHAR, 811311

PAN/IT No :

State Name : Bihar, Code : 10

Place of Supply : Bihar

Invoice No.

2023-24/46

Dated

12-Dec-2023

Delivery Note

Mode/Terms of Payment

Supplier's Ref.

Other Reference(s)

Buyer's Order No.

Dated

Despatch Document No.

Delivery Note Date

Despatched through

Destination

Terms of Delivery

SI No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Amount
1	ANTIVIRUS QUICK HEAL SOFTWARE	8523	3 set	7,906.78	set	23,720.34
		CGST				2,134.83
		SGST				2,134.83
Total						₹ 27,990.00

E. & O.E

Amount Chargeable (in words)

INR Twenty Seven Thousand Nine Hundred Ninety Only

HSN/SAC	Taxable Value	Central Tax Rate	Central Tax Amount	State Tax Rate	State Tax Amount	Total Tax Amount
8523	23,720.34	9%	2,134.83	9%	2,134.83	4,269.66
Total	23,720.34		2,134.83		2,134.83	4,269.66

Tax Amount (in words) : INR Four Thousand Two Hundred Sixty Nine and Sixty Six paise Only

Sub Voucher No- 122

Sub Voucher Date- 13/12/2023

Bill No-

Date- 13/12/2023

Bill Reference No- 2023/13/55871

Company's PAN : BIOPK2685J

Declaration

We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

Company's Bank Details

Bank Name : BANK OF INDIA A/C-578220110000350

A/c No. : 578220110000350

Branch & IFS Code : CHANDI, NALANDA & BKID0005782

for AVYANSH ENTERPRISES - (2023-24)

Authorized Signatory

Proprietor

SUBJECT TO BIHARSHARIF JURISDICTION

This is a Computer Generated Invoice

Bill Cum Sanction Document

Contract No: GEMC- 511687745987323	Contract Date: 06.08.2025 13:35	Sanction No: 511687745987323	Bill Sanction Date: 22.09.2025 11:28	PRC Reference No: 26767484	PRC Date: 30.08.2025	CRAC No: GEMCRAC-1- 511687745987323- 1	CRAC Date: 06.09.2025 10:37
---	--	--	---	--------------------------------------	--------------------------------	--	--

Bill No: 511687745987323-1B1

BILL PROCESSING FORM FOR BUYER

Bill Date: 22.09.2025 11:31

ORGANISATION DETAILS

Type: **State Government**
Ministry:
Department: **Science & Technology Department Bihar**
Organisation Name: **Science and Technology Department**
Office Name: **Government Polytechnic Lakhisarai**
HOD Name: **Suraj Kumar**

SELLER DETAILS

Company Name: **XPRESS IT CONSULTANCY SERVICES**
Email: **xpressitconsultancyservices@gmail.com**
Address: **XPRESS IT CONSULTANCY SERVICES, 46H, New Ballygunge Road, Kolkata, South 24 parganas, WEST BENGAL - 700039**

RECIPIENT DETAILS

Account Holder Name: **XPRESS IT CONSULTANCY SERVICES**
Bank Account No: **96940200001283**
IFSC Code: **BARB0DBKLUJ**

BUYER DETAILS

Name: **Rakesh Ranjan**
Address: **Government Polytechnic Lakhisarai, North of Vidyapeeth Chowk, Lakhisarai, Bihar - 811311, Jamui, BIHAR - 811311**

CONSIGNEE DETAILS

Name: **Suraj Kumar**
Address: **Government Polytechnic Lakhisarai, North of Vidyapeeth Chowk, Lakhisarai, Bihar - 811311, Jamui, BIHAR - 811311**

ACCOUNTING DETAILS

Designation of official providing admin approval:

Designation of official providing finance approval:

IFD Concurrence / Competent Authority (HOD / Head of Office) Approval Required? **NO**

IFD Concurrence / Competent Authority (HOD / Head of Office) Dairy Date: **NA**

Budget Blocked: **0.00**

PRINCIPAL

PRINCIPAL

IFD Concurrence / Competent Authority (HOD / Head of Office) Dairy No.: **NA**

Budget Availability: **YES**

Payment Method: **Offline**

INVOICE DETAILS



GeM Invoice Number:	GeM Invoice Date:	Seller Tax Invoice Number:	Seller Tax Invoice Date:	PRC Date:	CRAC Date:
GEM-63091396	30.08.2025	XICS/25-26/E062	30.08.2025	30.08.2025	06.09.2025

CONSIGNMENT DETAILS

#	Item Description	Make and Model	Ordered Quantity	Dispatched Quantity(Under this bill)	Qty Received	Qty Accepted	Unit	Price per unit incl. of all duties and taxes (INR)	Freight Charges (In INR)
1	K7 Security End Point Protection Software/ Appliances Subscription Per Device On premises	K7 Security K7EA-INDCEG-1U3Y	150	150	150	150	pieces	1298.0	0.0
Total Received and Accepted Order Value(INR):									194700.0

1. Was the delivery made within the original/re-fixed delivery period: **Yes**
2. Deductions:

Deduction	Deduction Imposed by Buyer	Amount (In INR)
Others (GST and Income Tax)	YES	7788.0

3. Net Amount deducted: **7788.00**
4. Net Amount payable: **186912.00**
5. Payment approved: **186912.00**

Note: Ink Signed Signatures are not required in System Generated Documents.

Note: This order pertains to a date prior to 22nd September 2025. I hereby confirm that I have reviewed the invoices / bills raised and noted the statutory variations arising as per the prevalent GST rates. Necessary deductions /adjustments, as applicable under the revised GST provisions, shall be effected and payment will be released accordingly.

K. J.
22-09-2025
Principal
Govt. Polytechnic, Lakhisarai

I/We hereby declare that our maximum turn over during last three years is only Rs. 1031539 and hence we are not covered under the ambit of GST e-invoicing provisions. We do hereby declare that once the said provisions are made applicable to us, we shall issue the duly complied e-Invoice under GST Law.

All GST invoice or document issued by us shall be properly and timely reported under respective returns under GST by us in line with the notified provisions and the applicable tax collected from Buyer shall be timely and correctly paid to the respective Government by us.

In case the Input Tax Credit of GST is denied or demand is recovered from Buyer on account of any act/ omission of us in this regard, we shall be liable in respect of all claims of tax, penalty and/or interest, loss, damages, costs, expenses and liability that may arise due to such non-compliance. Buyer shall have the right to recover such amount from any payments due to us or from Performance Security, or any other legal recourse from us.

INK SIGNED SIGNATURES ARE NOT REQUIRED IN SYSTEM GENERATED DOCUMENTS

Pass for Rs - 194700/- (Rupees One Lakh
Ninety Four Thousand Seven Hundred only).

@ 27. GST Deduction = 3894/-

@ 27. IT Deduction = 3894/-

Net Payment =

186912/-

24.09.2025

PAID & CANCELLED

Principal
Govt. Polytechnic, Lakhisarai

Sub Voucher No- 64
Sub Voucher Date- 24/09/2025
Bill No- 95/2025-26
Date- 24/09/2025
Bill Reference No- 2025700936/40049