

2 PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES (200)

All POs and PSOs are being demonstrably met through Curriculum ? : YES

2.1.1 State the process used to identify extent of compliance of the Board curriculum for attaining the Program Outcomes (POs) and Program Specific Outcomes (PSOs) as mentioned in Annexure I. Also mention the identified curricular gaps, if any (40)

A. Process used to identify extent of compliance of curriculum for attaining POs & PSOs (40)

To achieve the POs and PSOs SBTE has prepared a curriculum. The overall SBTE Curriculum is categorized under six different domains. The details of these domains are presented in the following table.

Sl.No.	Domain	Percentage Coverage (%)
1	Engineering science	10
2	Basic science	20
3	Humanities & Management	6
4	Professional core	50
5	Open Elective (COE)	7
6	Projects, Laboratory Practices, and Internship / Industrial Training	7

A simple and well-planned method is used to check how well the SBTE Bihar Diploma in Electrical Engineering syllabus meets the Program Outcomes (POs) and Program Specific Outcomes (PSOs). All Electrical Engineering faculty members take part in this process, along with suggestions from academic and industry experts, to make sure the syllabus matches industry requirements and societal needs.

The methodology adopted for identifying the extent of compliance of the SBTE curriculum with POs and PSOs is illustrated through the process flow and described below:-

Steps Involved in Identifying Extent of Compliance

1. Curriculum Categorization

The entire SBTE Bihar Electrical Engineering curriculum is categorized into the following components:

- o Engineering science
- o Basic science


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ACTIVITY / CO-CURRICULAR PROGRAMME - PO, PSO & SDG MAPPING

1. POs & PSOs:-

Outcomes	Interpretation
PO1	Basic and Discipline specific knowledge
PO2	Problem analysis
PO3	Design/development of solutions
PO4	Engineering Tools, Experimentation and Testing
PO5	Engineering practices for society, sustainability and environment
PO6	Project Management
PO7	Life-long learning
PSO1	Maintenance and control of various types of static and rotating electrical machineries and electrical power system components.
PSO2	Understand the impact of engineering solutions in societal and environmental context, commit to professional ethics and communicate effectively.

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2-1.1

NOTICE

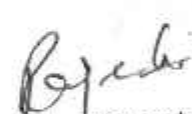
Notice No.: GP/EE/COPO/2020 - 01

Date: 01/07/2020

All concerned faculty members and members of the PCC and DAB are hereby informed that a meeting will be held on 02 July 2020 regarding the preparation and finalization of CO-PO/PSO Mapping for the courses that are not mapped prescribed under the SBTE Bihar Curriculum/Syllabus 2020 of all semester.

The Course Outcomes (COs) are provided in the SBTE Bihar Curriculum/Syllabus 2020; however, CO-PO/PSO Mapping is not provided for all courses. Therefore, the meeting will focus on:

1. Reviewing the COs provided in the SBTE Bihar Curriculum/Syllabus 2020.
2. Identifying appropriate POs and PSOs corresponding to each CO.
3. Preparing the CO-PO/PSO Mapping Matrix based on course content and learning outcomes.
4. Discussing and finalizing the appropriate mapping levels and their justification.
5. Ensuring proper alignment with Outcome-Based Education (OBE)
6. Finalizing the mapping for departmental academic records


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Copy To:

1. All Members, Program Coordination committee(PCC) All Members, Departmental Academic Board (DAB)
2. All concerned faculty members, Department of Electrical
3. NBA coordinator, GP lakhisarai
4. Principal, GP lakhisarai
5. Department Office


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Method
of gap

NOTICE

Notice No.: GPEE/COPD/2020-03

Date: 18/8/2020

Subject: Identification of Curriculum Gaps and Gap-Filling Activities

All concerned faculty members are hereby informed that, as part of the Outcome Based Education (OBE), the Department has decided to identify the Curriculum Gaps between the prescribed SBTE Bihar curriculum/syllabus, Course Outcomes (COs), and the competencies required for current industry practices.

The concerned faculty members are requested to review their respective courses and identify the gaps with respect to:

1. Course Outcomes and prescribed course contents.
2. Emerging technologies and recent developments in the relevant field.
3. Industry requirements and employability skills.
4. Modern tools, techniques, materials and practices.
5. Practical knowledge and field-oriented competencies.
6. Sustainable, environmental and safety aspects.
7. Topics/skills required for higher education and professional practice.

The identified curriculum gaps shall be documented along with suitable gap-filling measures, such as:

- Expert lectures and invited talks.
- Industrial visits and field exposure.
- Case studies and real-life examples.
- Additional practical/demonstration activities.
- Workshops and hands-on training.
- Assignments and project-based learning.
- Exposure to modern tools, software, technologies and equipment.
- Beyond-syllabus topics related to emerging technologies.

The concerned faculty members shall prepare a Curriculum Gap Analysis clearly indicating:
Existing Syllabus → Identified Gap → Gap-Filling Content/Activity → Expected Student Competency → Evidence/Record

The completed Curriculum Gap Analysis shall be submitted to the PCC/DAB for review and verification.

The above work shall be completed and submitted by 10/08/2020.

This activity shall form part of the departmental records for continuous curriculum improvement.

Copy to: Principal / PCC / DAB / Concerned Faculty / Departmental Record

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बिहार सरकार

Government of Bihar Government Polytechnic, Lakhisarai

ACADEMIC CALENDAR SESSION 2025-2026
ODD SEMESTER (3rd & 5th)



Sl. No.	Name of Activity	Proposed Date and Month
01.	Commencement of Academic Session	30/05/2025
02.	Issuing relieving Letter for Summer Internship (3rd & 5th as applicable)	30/05/2025 to 31/05/2025
03.	Summer Vacation	01/06/2025 to 30/06/2025
04.	Issuance of Library books, Preparation of Students detail & Lesson Plans in Teacher Diaries and Interaction with students by respective Teachers to discuss Course Outcomes, Display of Class time table.	01/07/2025
05.	Semester Enrolment	03/07/2025 to 10/07/2025
06.	One day technical excursion of all classes	Minimum one in a semester. To be arranged as per institute calendar.
07.	Verification of Lesson Plan compliance & Teachers Diaries by HOD's & Principal	Monthly
08.	Display of attendance of students by faculties of all Branches	Every Month
09.	Communication to Parents/Guardians of Students regarding attendance record and Sessional.	Monthly
10.	Industry Expert Lecture	One lecture per month per branch
11.	Webinars/Seminars/debate/ quiz contest etc.	Every Saturday
12.	Academic interaction of Principal with Faculty members and students	Every Saturday
13.	Independence Day Celebration & Meritorious students Encouragement Award (Institute level)	15/08/25
14.	1st Internal Examination for (3rd & 5th) Semester	22/08/25 & 23/08/25
15.	Display of 1st Internal Examination marks and identification of weak students for extra classes.	25/08/25 & 26/08/25
16.	Submission of Concrete Plan by Concerned HOD's to the Principal for conducting remedial classes for weak students	27/08/25 & 28/08/25
17.	Teacher's Day Celebration	05/09/25
18.	Parents Teachers Meeting	13/09/2025
19.	Hindi Diwas Celebration	14/09/25
20.	Engineers Day Celebration & Meritorious students Encouragement Award (State level)	15/09/25
21.	Durga Puja Holidays	29/09/25 to 02/10/25

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2.2.18

NOTICE

Notice No.: GPL/EE/COPD/2020 -04

Date: 12/8/2020

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2.2.1.

Notice

All concerned faculty members are hereby informed that, as part of the Outcome Based Education (OBE) for various appropriate Instructional Planning and Delivery Methods shall be adopted during the delivery of courses to improve the quality and effectiveness of teaching-learning.

Faculty members are directed to plan and deliver their courses by appropriately using the following methods, as applicable to the course outcomes, topic requirements, and students' learning needs:

1. Course Planning and Academic Calendar
 - o Preparation and implementation of course-wise teaching plan.
 - o Mapping of topics/units with Course Outcomes (COs).
 - o Completion of syllabus as per the prescribed academic calendar.
2. Conventional Classroom Teaching
 - o Interactive lectures.
 - o Blackboard/whiteboard teaching.
 - o Question-answer and discussion-based teaching.
3. ICT-Based Teaching
 - o Digital learning resources and e-content.
4. Student-Centered Teaching-Learning Methods
 - o Problem-solving activities.
 - o Case-study based learning.
5. Practical and Experiential Learning
 - o Laboratory demonstrations and experiments.
 - o Hands-on activities.
 - o Industrial/application-oriented examples.
 - o Mini-projects and project-based learning.
6. Outcome-Based Teaching
 - o Teaching activities shall be aligned with the defined COs, POs and PSOs.
 - o Appropriate assessment methods shall be used to measure attainment of Course Outcomes.
7. Assessment and Feedback
 - o Class tests, assignments, practical assessment and other formative assessment methods.
 - o Regular feedback from students shall be obtained and used for improvement of teaching-learning.
8. Remedial and Enrichment Measures
 - o Remedial classes/support shall be provided to slow learners wherever required.
 - o Additional learning materials, challenging problems and enrichment activities shall be provided to advanced learners.


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Electrical Power Generation Transmission and Distribution

2.2.1

	DEPARTMENT OF ELECTRICAL ENGINEERING	A.Y-2024-25 Session: 2024-27
	Slow learners and And Advance learners	SEMESTER- 3rd

The students are categorized as Advance and Slow learners based on their performance in the internal class tests of respective courses.

The faculty members in the relevant subjects identify the students based on their marks in continuous assessment and identify those who scores below 50% marks as slow learning students and those who scores above 80% mark as advance learning students. Students who scores between 50% and 80% marks are identified as average students.

Mentoring system	
Identification criteria	Actions taken
Students scoring below 50% marks in Continuous Assessment Test.	For such students, special doubt clearing sessions were organized. Also, during the session based upon their weakness some reference materials were suggested.
Students scoring above 80% marks in Continuous Assessment Test.	Such students are encouraged to do practice on the questions asked in competitive examination. Students are also encouraged to join MOOCs courses.
Students scoring between 50% and 80% marks in Continuous Assessment Test are identified as average students.	Such students are encouraged practice assignments of moderate difficulty level. Students are also encouraged to join MOOCs courses.


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2.2.5.

Department of Electrical Engineering

Summer Internship Record

(Batch: 2024-27)

Sl. No.	Batch/Sem	Place of Visit	Date of Visit	No. of Students
1.	2024-27/5 th Sem	APSD INNOVATION INFOTECH PVT LTD	1/6/2026 to 30/6/2026	32
2.	2024-27/3 rd Sem	NKB IINFINITY (OPC) PRIVATE LIMITED	1/6/2025 to 30/6/2025	29
3.	2024-2027/ 3 rd Sem	BIHAR STATE HOLDING COMPANY	20/10/2025 to 2/11/2025	5



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Notice No.: GPL/EE/OBE/2020-09

Date: 10/9/2020

NOTICE

All faculty members, Department Advisory Board (DAB) members, and PCC members of the Engineering Department are hereby informed that a meeting will be conducted for the preparation of rubrics to assess the effectiveness and outcomes of Industrial Training undergone by students.

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Copy to:

1. All Members, Program Coordination committee(PCC) All Members, Departmental Academic Board (DAB)
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2-2.6.A

Notice No.: GPL/EE/OBE/2020-11

Date: 16/9/2020

NOTICE

All students of Government Polytechnic Lakhisarai are hereby informed that the institute provides the following facilities to support their **skill development, practical learning, online learning, and academic enhancement**:

Sl. No.	Facility	Major Learning Area
1.	KYP (Kushal Yuva Program)	Computer, communication and employability skills
2.	e-Yantra	Robotics, embedded systems and project-based learning
3.	NPTEL / MOOCs	Online courses and additional technical learning
4.	CAD Lab	Computer-Aided Design and technical drawing
5.	Virtual Lab	Online simulation and virtual experiments
6.	Cisco Networking Academy	Networking, IT and digital skills
7.	Spoken Tutorial	Software learning and digital skill development

Students are encouraged to make maximum use of these facilities for enhancing their **technical knowledge, practical skills, employability, and overall learning outcomes**.

All concerned faculty members are requested to guide and motivate students to utilize these facilities effectively.


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Executive Report : Programs and Institutional Functions

Government Polytechnic, Lakhisarai

1. Academic Excellence & Accreditation

The institution has prioritized high-level academic auditing and faculty growth to meet national standards.

- **NBA Accreditation Series: * "A Path to NBA" (FDP):** A primary initiative held from **October 24–29, 2024**, focused on Outcome-Based Education (OBE) and SAR preparation.
 - **SAR Submission Phase:** Intensive strategic planning is currently underway, with a final submission target set for **April 2026**.
- **Regulatory Compliance:** Regular engagement with **AICTE** and Standing Appellate Committee (SAC) meetings to ensure institutional growth and departmental approvals for upcoming academic sessions.

2. Technical Training & Industry Integration

Bridging the gap between the classroom and the professional world through specialized workshops.

Program Type	Focus Areas	Partners/Collaborators
Skill Development	Robotics, Embedded Systems, IT e-Yantra, NIELIT	
Departmental Focus	Mechanical Engineering	Internal Newsletters & Lab Posters
Expert Lectures	Real-world engineering insights	Alumni & Industry Professionals

3. Career Guidance Cell (CGC) Initiatives

The CGC acts as a bridge for student employability, operating consistently from **2023 through 2026**.

- **Professional Readiness:** Specialized workshops on **Resume Writing** and **Personality Development**.
- **Career Strategy:** Seminars on competitive exam preparation and diverse career pathways (Government, Industry, and Higher Education).
- **Student Induction:** Annual orientation programs to welcome new cohorts and introduce them to the polytechnic's academic culture.

4. Social Responsibility & Campus Governance

Focusing on safety, transparency, and community engagement.

- **Safety & Ethics:** A comprehensive workshop on the **SHE-Box Portal** and **POSH Act-2013** was held on **December 20, 2025**, to ensure a secure environment for staff and students.

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8.5 Entrepreneurship Cell/Technology Business Incubator

A. Availability: -

The institute has a functional Entrepreneurship Development Cell (EDC) / Start-up Cell with defined objectives, faculty coordinators, and necessary infrastructure to promote entrepreneurship and innovation among students.

B. Management: -

EDC provides a supportive platform for students to explore entrepreneurial activities and offers technical guidance to convert innovative ideas into viable products and services for the benefit of society. Aspiring entrepreneurs are supported at every stage of their journey, from idea generation to planning, mentoring, and execution of start-up ventures.

C. Effectiveness: -

To strengthen start-up culture within the institute, a dedicated Start-up Cell has been established with faculty coordinators. The details of the faculty coordinators are given below.


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