



DEPARTMENT OF ELECTRICAL ENGINEERING

PROGRAM OUTCOMES

The graduate of the program will be able:-

PO1. Basic and Discipline specific knowledge: Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.

PO2. Problem analysis: Identify and analyse well-defined engineering problems using codified standard methods.

PO3. Design/ development of solutions: Design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs.

PO4. Engineering Tools, Experimentation and Testing: Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.

PO5. Engineering practices for society, sustainability and environment: Apply appropriate technology in context of society, sustainability, environment and ethical practices.

PO6. Project Management: Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well- defined engineering activities.

PO7. Life-long learning: Ability to analyze individual needs and engage in updating in the context of technological changes.


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If yes, give suggestion here:.....
.....

4. What type of job opportunities should be provided to the students?

- ☐ Limited to traditional fields such as engineering and medicine
- ☐ Tailored to individual interests and skills, encompassing diverse industries
- ☐ Focused on high-paying professions regardless of personal preferences
- ☐ Restricted to local job markets to ensure stability

5. Do you think that communication skill is necessary for leadership qualities, working in multidisciplinary team?

- ☐ No significance at all
- ☐ Limited significance
- ☐ Significant for understanding diverse perspectives
- ☐ Significant only for team members, not leaders

6. How crucial do you believe it is for students to cultivate interpersonal skills in order to thrive academically and professionally?

- ☐ No benefit
- ☐ Limited benefit
- ☐ Moderate benefit
- ☐ Significant benefit

7. Should there be an organized training program aimed at cultivating problem-solving skills?

- ☐ Yes, structured training programs can effectively enhance problem-solving skills.
- ☐ No, individuals can naturally develop problem-solving skills without organized training.
- ☐ It depends on the individual's innate abilities; some may benefit from organized programs, while others may not.
- ☐ Maybe, a combination of self-directed learning and organized training could be more effective for developing problem-solving skills.

8. Which skills and qualities are required by the students to make them better professional?

- ☐ Communication Skills
- ☐ Adaptability
- ☐ Technical Proficiency
- ☐ Leadership Skills
- ☐ Continuous Learning
- ☐ Global Awareness
- ☐ All of the Above

9. Any other suggestions.

QUESTIONNAIRE FOR TRAINING ACADEMIC PERFORMANCE

Vision and Mission of the Electrical Engineering Department

Vision of Electrical Engineering Department

To be a strong influence in preparing the next generation of electrical professionals and to improve the ability of students to actively participate in the well-being of society.

Mission Statements of Electrical Engineering Department

The mission of Electrical Engineering Department is: -

Mission No	Mission Statement
M1	To provide a high-quality and practical education that equips students with the essential skills and knowledge for success in the field of electrical engineering.
M2	Committed to create a friendly place for learning, encourage new and creative ideas.
M3	To get students ready to handle the changes and challenges in the electrical engineering field.

Program Educational Objectives (PEO's) of Electrical Engineering Department

1	Build successful careers in Electrical Engineering and related fields, delivering innovative and effective solutions to complex challenges.
2	Pursue entrepreneurship and seek advanced education opportunities to enhance their expertise.
3	Commit to lifelong learning by utilizing cutting-edge technologies to address societal issues, employing logical and adaptive decision-making strategies.

Program Specific Outcomes PSO's of Electrical Engineering Department

PSO 1	Maintenance and control of various types of static and rotating electrical machineries and electrical power system components.
PSO 2	Understand the impact of engineering solutions in societal and environmental context, commit to professional ethics and communicate effectively.

Please provide your suggestion regarding your expectations from student and the skill to be developed in them by program (Department of Computer Science & Engineering)

1. Whether the current statements of vision, mission and PEOs is as per current need. Yes ☐ NO ☐

2. Whether the department is moving towards right path as per vision & mission statement. Yes ☐ NO ☐

3. Do you want to suggest changes in

g) Mission statement Yes ☐ NO ☐

If yes, give suggestion here:.....

h) PEOs statement Yes ☐ NO ☐

Department of Electrical Engineering



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If yes, give suggestion here:

4 How do you think that fundamental knowledge of engineering is helpful in obtaining job?

- ☐ Fundamental knowledge of engineering provides a strong theoretical foundation, enabling individuals to understand and apply core principles in practical work settings.
- ☐ Engineering knowledge enhances problem-solving skills, allowing professionals to tackle complex challenges encountered in various job roles.
- ☐ Employers value candidates with a solid engineering background as they can contribute innovative solutions and ideas to projects.
- ☐ Understanding engineering fundamentals helps individuals communicate effectively with interdisciplinary teams, fostering collaboration in the workplace.
- ☐ Proficiency in engineering concepts is often a prerequisite for many technical roles, making individuals with this knowledge more competitive in the job market.

5 What role does advanced technology training play in preparing students for the workforce?

- ☐ It hinders their adaptability to new technologies
- ☐ It enhances their skills and makes them more competitive
- ☐ To eliminate the gap between industry and academics
- ☐ To encourage students for pursuing higher education

6 How can spirit of innovation and creativity be developed among students?

- ☐ Integrate Technology
- ☐ Encourage Creative Expression
- ☐ Incorporate Design Thinking
- ☐ Support Mentorship Programs
- ☐ Expose Students to Real-World Challenges

7 Why are communication skills considered crucial in the professional world, and how do they contribute to a student's success in their career?

- ☐ To facilitate effective collaboration and understanding
- ☐ They enhance the ability to convey ideas, build relationships, and navigate workplace challenges
- ☐ They contribute to improved teamwork, conflict resolution, and career advancement
- ☐ Effective communication is critical for success in various aspects of professional life

8. What are your thoughts on the importance of motivating students to engage in research work, and how do you believe such motivation can positively impact their academic and personal development?

- ☐ Significant impact; research motivation contributes to both academic excellence and personal development.
- ☐ Moderate impact; research involvement can enhance critical thinking and academic skills.
- ☐ Limited impact; only academically inclined students benefit from research engagement.

9 Do you think that qualities like leadership, teamwork, etc. are required in a professional environment?

- ☐ Yes, these qualities are essential for success in a professional setting.
- ☐ No, individual skills and expertise are sufficient for professional success.
- ☐ It depends on the nature of the profession; not all roles require such qualities.
- ☐ Qualities like leadership and teamwork are overrated in the professional world.

10. Any other suggestions.

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QUESTIONNAIRE FOR PROFESSIONAL BODIES

Vision and Mission of the Electrical Engineering Department

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Mission Statements of Electrical Engineering Department

The mission of Electrical Engineering Department is: -

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Please provide your suggestion regarding your expectations from student and the skill to be developed in them by program (Department of Electrical Engineering)

- Whether the current statements of vision, mission and PEOs is as per current need. Yes ☐ NO ☐
- Whether the department is moving towards right path as per vision & mission statement. Yes ☐ NO ☐
- Do you want to suggest changes in
 - Mission statement Yes ☐ NO ☐

If yes, give suggestion here:.....

.....

 - PEOs statement Yes ☐ NO ☐

Department of Electrical Engineering



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c) Mission statement Yes NO ☐

If yes, give suggestion here:.....
.....

d) PEOs statement Yes ☐ NO ☐

If yes, give suggestion here:.....
.....

4. How do you think that fundamental knowledge of engineering is helpful in obtaining job?

- ☐ It provides a strong foundation for problem-solving and critical thinking.
- ☐ It enhances communication skills and teamwork.
- ☐ It allows for specialization in a specific engineering field.
- ☐ All of the above.

5. Which educational level marks the pinnacle of developing advanced problem-solving skills?

- ☐ Elementary school
- ☐ Middle school
- ☐ High school
- ☐ Higher education (college/university)

6. How does the application of practical knowledge contribute to success in the industry?

- ☐ It enhances theoretical understanding only
- ☐ It has no impact on professional success
- ☐ It improves problem-solving skills and decision-making
- ☐ It hinders creativity and innovation

7. How programming skills are important? Is it necessary for a student to know many languages?

- ☐ B) Programming skills are essential for problem-solving and automation
- ☐ C) Knowing many languages is not necessary; proficiency in one is sufficient
- ☐ D) Programming skills are only required for IT professionals
- ☐ Not Applicable

8. What kind of projects should be adopted for better prospects in the corporate sector?

- ☐ Projects with a focus on cost-cutting and efficiency improvement
- ☐ Innovative projects that explore new markets and technologies
- ☐ Collaborative projects that enhance team dynamics and communication
- ☐ Projects aligned with the organization's strategic goals and objectives
- ☐

9 Any other specific skills, which student should have?

10 Any other suggestions.

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QUESTIONNAIRE FOR INDUSTRY

Vision and Mission of the Electrical Engineering Department

Vision of Electrical Engineering Department

To be a strong influence in preparing the next generation of electrical professionals and to improve the ability of students to actively participate in the well-being of society.

Mission Statements of Electrical Engineering Department

The mission of Electrical Engineering Department is: -

Mission No	Mission Statement
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3	Commit to lifelong learning by utilizing cutting-edge technologies to address societal issues, employing logical and adaptive decision-making strategies.

Program Specific Outcomes (PSO's) of Electrical Engineering Department

PSO 1	Maintenance and control of various types of static and rotating electrical machineries and electrical power system components.
PSO 2	Understand the impact of engineering solutions in societal and environmental context, commit to professional ethics and communicate effectively.

Name of Company/Organization

(Please provide your suggestion regarding your expectations from student and the skill to be developed in them by program.)

- Whether the current statements of vision, mission and PEOs is as per current need. Yes ☐ NO ☐
- Whether the department is moving towards right path as per vision & mission statement. Yes ☐ NO ☐
- Do you want to suggest changes in

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1) Whether the current statements of vision, mission and PEOs is as per current need. Yes ☐ NO ☐

2) Whether the department is moving towards right path as per vision & mission statement. Yes ☐ NO ☐

3) Do you want to suggest changes in

a) Mission statement Yes ☐ NO ☐

If yes, give suggestion here:.....
.....

b) PEOs statement Yes ☐ NO ☐

If yes, give suggestion here:.....
.....

4) Do you think that fundamental knowledge of engineering is important for development of your ward?

☐ Yes, because it provides a strong foundation for problem-solving and critical thinking skills.

☐ No, as there are other fields that are equally important for personal development.

☐ Maybe, it depends on the specific career goals and interests of my ward.

☐ I'm not sure.

5) Does basic knowledge of science/mathematics is required for your ward?

☐ Yes, it is essential for a well-rounded education.

☐ No, it's optional and depends on personal interests.

☐ Partially, as some subjects may require basic science/math understanding.

☐ I'm not sure, and I would like more information before deciding.

6) What specific skills should college students focus on developing to ensure they become successful professionals in their chosen fields?

☐ Technical expertise in their field

☐ Advanced knowledge of industry trends

☐ Creativity and problem-solving

☐ Adaptability and resilience

☐ All of the above

7) What types of job opportunities do you believe a Department should actively provide to ensure the holistic development and career success of your ward?

☐ Internship placements in relevant industries

☐ Networking events with professionals and alumni

☐ Career counselling services for personalized guidance

☐ Skill development workshops and training programs

☐ Job fairs and recruitment drives with diverse employers

8) Is the knowledge of ethical and social values is required along with knowledge of engineering?

☐ Yes, ethical and social values are essential in engineering.

☐ No, engineering is solely about technical knowledge.

☐ Ethical and social values may be helpful but are not necessary in engineering.

☐ It depends on the specific engineering field.

Department of Electrical Engineering



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Govt. Polytechnic, Lakhisarai

QUESTIONNAIRE FORM FOR PARENTS

Vision and Mission of the Electrical Engineering Department

Vision of Electrical Engineering Department

To be a strong influence in preparing the next generation of electrical professionals and to improve the ability of students to actively participate in the well-being of society.

Mission Statements of Electrical Engineering Department

The mission of Electrical Engineering Department is: -

Mission No	Mission Statement
M1	To provide a high-quality and practical education that equips students with the essential skills and knowledge for success in field of electricals engineering.
M2	Committed to create a friendly place for learning, encourage new and creative ideas.
M3	To get students ready to handle the changes and challenges in the electrical engineering field.

Program Educational Objectives (PEO's) of Electrical Engineering Department

1	Build successful careers in Electrical Engineering and related fields, delivering innovative and effective solutions to complex challenges.
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Program Specific Outcomes (PSO's) of Electrical Engineering Department

PSO 1	Maintenance and control of various types of static and rotating electrical machineries and electrical power system components.
PSO 2	Understand the impact of engineering solutions in societal and environmental context, commit to professional ethics and communicate effectively.

Please provide your esteemed suggestions for following points regarding expectations from the program for your ward.

Department of Electrical Engineering



H.O.D
Department of
Electrical Engineering
Govt. Polytechnic, Lakhisarai

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- ☐ Yes, ethical values are essential for maintaining trust and integrity in the workplace.
- ☐ No, professional success is solely determined by individual skills and performance, not ethical values.
- ☐ It depends on the industry; ethical values may be more important in some sectors than others.
- ☐ It depends on the industry; ethical values may be more important in some sectors than others.

9) How do effective communication skills contribute to success in the corporate world

- ☐ Increased Productivity
- ☐ Better Decision-Making
- ☐ Improved Team Collaboration
- ☐ Conflict Resolution
- ☐ Enhanced Leadership Abilities

10) Any other suggestions.

Government Polytechnic Lakhisarai

1. Whether the current statements of vision, mission and PEOs is as per current need.

Yes ☐ NO ☐

2. Whether the department is moving towards right path as per vision & mission statement.

Yes ☐ NO ☐

3. Do you want to suggest changes in

a) Mission statement ☐ Yes ☐ NO

If yes, give suggestion here:.....

b) PEOs statement ☐ Yes ☐ NO

If yes, give suggestion here:.....

4. How can educators effectively train students on advanced technologies to enhance their knowledge and simultaneously bridge the gap between industry and academia?

☐ Implementing hands-on projects and practical exercises that simulate real-world industry scenarios.

☐ Offering specialized workshops and industry collaborations to expose students to current technological trends.

☐ Integrating industry professionals as guest lecturers to share practical insights and experiences.

☐ Providing access to cutting-edge technology labs and resources to encourage exploration and experimentation.

6) What type of skills you think can make a student a better professional.

☐ Communication Skills

☐ Technical Proficiency

☐ Critical Thinking

☐ Teamwork and Collaboration

☐ Leadership Skills

7) To what extent do social values play a crucial role in shaping individuals' experiences and decision-making processes within the professional landscape of various industries?

☐ Minimal Impact

☐ Moderate Influence

☐ Significant Impact

☐ Overwhelming Influence

8) Do you believe that ethical values play a crucial role in the professional environment, particularly within the industry you work in?

Department of Electrical Engineering


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Govt. Polytechnic, Lakhisarai

QUESTIONNAIRE FORM FOR ALUMNI**Vision and Mission of the Electrical Engineering Department****Vision of Electrical Engineering Department**

To be a strong influence in preparing the next generation of electrical professionals and to improve the ability of students to actively participate in the well-being of society.

Mission Statements of Electrical Engineering Department

The mission of Electrical Engineering Department is: -

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Program Educational Objectives (PEO's) of Electrical Engineering Department

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3	Commit to lifelong learning by utilizing cutting-edge technologies to address societal issues, employing logical and adaptive decision-making strategies.

Program Specific Outcomes (PSO's) of Electrical Engineering Department

PSO 1	Maintenance and control of various types of static and rotating electrical machineries and electrical power system components.
PSO 2	Understand the impact of engineering solutions in societal and environmental context, commit to professional ethics and communicate effectively.

Name of Alumni

Name of Company/Organization

(Please provide your suggestions for following points, regarding expectations from the program to firm up the above said subject.)

Department of Electrical Engineering



H.O.D
Department of
Electrical Engineering
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4) What role does innovation play in a life-long learning environment?

- ☐ It is a distraction
- ☐ It is essential for problem-solving skills
- ☐ It leads to a static mind set
- ☐ It diminishes ethical values

5) What is one of the core competencies the institution aims to strengthen in its students?

- ☐ Academic skills
- ☐ Research Skills
- ☐ Innovation and problem-solving skills
- ☐ Artistic creativity

6) How do you think that fundamental knowledge of engineering is helpful in obtaining job?

- ☐ Problem-Solving Skills:
- ☐ Technical Competence:
- ☐ Communication and Collaboration
- ☐ Innovation and Creativity

7) Do you think training must be organized on advanced technologies

- ☐ Strongly Agree
- ☐ Agree
- ☐ Neutral
- ☐ Disagree

8) In your opinion what strategies do you think are effective in inspiring students to set and achieve higher education goals

- ☐ Career Counselling
- ☐ Regular Progress Assessments
- ☐ Interactive Learning
- ☐ Technology Integration

9) Any other suggestions.

Name

Signature

QUESTIONNAIRE FORM FOR STUDENTS**Vision and Mission of the Electrical Engineering Department****Vision of Electrical Engineering Department**

To be a strong influence in preparing the next generation of electrical professionals and to improve the ability of students to actively participate in the well-being of society.

Mission Statements of Electrical Engineering Department

M1	To help the institute become a renowned and cutting-edge center of excellence in the field of Electrical.
M2	To put the strict accreditation requirements into practice while encouraging cooperative relationships and ongoing development.
M3	To support students in developing their talents and ethics for societal impact while upholding the highest standards of education and innovation for academic and industrial achievement.

Program Educational Objectives (PEO's) of Electrical Engineering Department

1	Build successful careers in Electrical Engineering and related fields, delivering innovative and effective solutions to complex challenges.
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3	Commit to lifelong learning by utilizing cutting-edge technologies to address societal issues, employing logical and adaptive decision-making strategies.

Program Specific Outcomes (PSO's) of Electrical Engineering Department

PSO 1	Maintenance and control of various types of static and rotating electrical machineries and electrical power system components.
PSO 2	Understand the impact of engineering solutions in societal and environmental context, commit to professional ethics and communicate effectively.

You are requested that kindly mark your sincere input by providing your valuable feedback / suggestions for following points, regarding expectations in this regard.

- 1) Whether the current statements of vision, mission and PEOs is as per current need. Y ☐ N ☐
- 2) Whether the department is moving towards right path as per vision & mission statement. Y ☐ N ☐
- 3) Do you want to suggest changes in
- c) Mission statement Yes ☐ NO ☐
 If yes, give suggestion here:.....

- d) PEOs statement Yes ☐ NO ☐
 If yes, give suggestion here:.....



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- 4) What kind of environment does the department aim to provide?
- ☐ Competitive and stressful
 - ☐ Intellectual, innovative, and inspirational
 - ☐ Traditional and conventional
 - ☐ Relaxed and casual
- 5) In addition to technical excellence, what is mentioned as a key aspect for professionals from the department?
- ☐ Strict adherence to rules
 - ☐ Attitude to create start-ups for society
 - ☐ Isolation from societal needs
 - ☐ Focus solely on academic achievements
- 6) What role does ethics play in the department's vision?
- ☐ No emphasis on ethics
 - ☐ Highest ethics as a priority
 - ☐ Moderate ethics
 - ☐ Ethical considerations are irrelevant
- 7) What is the overall purpose of the department's focus on technical excellence?
- ☐ To be average in the field
 - ☐ To contribute to society through start-up's
 - ☐ To prioritize financial gains
 - ☐ To surpass others in computing and information systems
- 8) How does a life-long learning environment contribute to personal and professional development?
- ☐ By prioritizing stagnation
 - ☐ By hindering problem-solving skills
 - ☐ By fostering continuous growth and adaptability
 - ☐ By discouraging ethical values
- 9) Any other suggestions.
- _____
- _____

Name

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QUESTIONNAIRE FOR FACULTY

Vision and Mission of the Electrical Engineering Department

Vision of Electrical Engineering Department

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3	Commit to lifelong learning by utilizing cutting-edge technologies to address societal issues, employing logical and adaptive decision-making strategies.

Program Specific Outcomes (PSO's) of Electrical Engineering Department

On successful completion of graduation degree, the graduates will be able to:

PSO 1	Maintenance and control of various types of static and rotating electrical machineries and electrical power system components.
PSO 2	Understand the impact of engineering solutions in societal and environmental context, commit to professional ethics and communicate effectively.

You are requested that kindly mark your sincere input by providing your valuable feedback / suggestions for following points, regarding expectations in this regard.

- 1) Whether the current statements of vision, mission and PEOs is as per current need. Yes ☐ NO ☐
- 2) Whether the department is moving towards right path as per vision & mission statement. Yes ☐ NO ☐
- 3) Do you want to suggest changes in

a) Mission statement Yes ☐ NO ☐

If yes, give suggestion here:

b) PEOs statement Yes ☐ NO ☐

If yes, give suggestion here:

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1.5 Establish Consistency of PEOs with Mission of the Department (15)

PEO	Mapping with Mission (M1, M2, M3)	Justification
PEO-1: Build successful careers in Electrical Engineering and related fields, delivering innovative and effective solutions to complex challenges.	Strongly attained by M1 & M2, Moderately attained by M3	M1 provides strong fundamental and practical knowledge essential for professional success. M2 encourages creativity and innovation, enhancing problem-solving capability. M3 moderately supports by preparing students to face changing engineering challenges.
PEO-2: Pursue entrepreneurship and seek advanced education opportunities to enhance expertise.	Strongly attained by M3, Moderately attained by M2, Slightly attained by M1	M3 supports higher studies and entrepreneurship through exposure to advanced technologies. M2 moderately contributes by promoting creativity and innovation. M1 slightly assists by giving foundational skills required for career growth.
PEO-3: Commit to lifelong learning using modern technologies to address societal issues with logical and adaptive decision-making.	Strongly attained by M2 & M3, Moderately attained by M1	M2 and M3 strongly support adaptability, innovation, and lifelong learning. M1 moderately contributes by offering foundational knowledge that supports continuous development.

PEO Statements			
	M1	M2	M3
Graduates will be able to apply basic principles of electronics to analyze and design basic electronic circuits and systems for various applications.	3	3	2
Graduates will be proficient in basic programming languages, embedded systems, and their use in automation and control.	1	2	3
Graduates will be able to adapt to new technology and continuously improve their abilities, with an ethical approach to lifelong learning.	2	3	3

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Govt. Polytechnic, Lakhisarai

Department of Electrical Engineering | Part B