Exit Ticket

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Lecture Topic : Distributed Generation Vs. Centralized Generation
Link to the Google Form : https://forms.gle/XsG3AU1S9CupJ8L56

Summary of Student Feedback – Exit Ticket

1. Quantitative Ratings

- **Understanding of topic (1–5 scale)**:
    - Average: **2.75** (indicates moderate to low understanding for many students)
    - Spread: Wide range (1–5), suggesting some students grasped it well while others struggled.
- **Interest level (1–5 scale)**:
    - Average: **3.63** (moderately high interest)
    - Many found the topic engaging despite varied understanding.

2. Key Learnings Students Reported

- Core concepts: differences between **distributed** and **centralized generation**.
- Benefits of distributed generation: reduced transmission losses, local generation advantages, renewable integration.
- Real-life aspects: practical challenges, solar panel design, location impacts.
- Some retained only general impressions like “knowledge” or “subject,” hinting at surface-level recall for some.

3. Questions Still Unanswered

- How to minimize transmission losses over long distances.
- Environmental impact differences (life cycle) between centralized & distributed systems.
- Practical application of theoretical concepts.
- Challenges of integrating DG into existing grids.
- Some students reported no doubts — may indicate confidence or lack of deep engagement.

4. Suggestions & Comments

- Mostly positive — appreciation for interactive teaching style.
- Requests for **more practical examples and activities**.
- One suggestion to extend such teaching to junior years.
- A few said “No” to suggestions, showing satisfaction.

Insights

- **Interest is higher than understanding** — the topic is engaging but some students need clearer, deeper explanations.
- **Varied learning levels** — some students captured detailed concepts; others gave very generic responses.
- **Applied knowledge gap** — questions lean towards practical implications, suggesting students want real-world linkage.

Recommendations for Improvement

1. **Content Adjustments**
    - Include **step-by-step practical examples** (e.g., mini case studies, small-scale DG planning exercises).
    - Integrate **comparative visuals** for centralized vs distributed generation (loss diagrams, cost-flow charts).
    - Add **environmental and economic perspectives** explicitly, since some students asked about these.
2. **Teaching Approach**
    - Use **active learning**: group problem-solving on loss minimization, role-play as planners, or design challenges.
    - Conduct **formative checks** mid-class to identify students who are lagging and address gaps in real time.
    - Provide **short application tasks** at the end of each section to cement theory-practice linkage.
3. **Follow-up**
    - Address unanswered questions in the next session to reinforce a culture of curiosity.
    - Consider **tiered learning activities** — easy to advanced — to cater to varied understanding levels.