

## Innovations by the Faculty in Teaching and Learning

Following are the best and innovative practices undertaken by the faculty members for improving teaching and learning experience.

- **Flip Learning:** Flip learning gives the teacher a better opportunity to deal with mixed levels, student difficulties, and differentiated learning preferences during in-class time. Our faculty members use the following tools for flip learning:
  - Video lectures
  - Group discussion
  - Teacher-student interaction (Mentor-mentee concept)
- **Video Lectures:** Our faculty members recorded many course related as well as interdisciplinary video lectures through their YouTube channel to give students better understanding about engineering concepts. Faculty members also recorded video lectures at AKTU campus studio which are telecasted on Swayam Prabha channel no. 15.

Faculty member	Faculty ID (AKTU)	Topics of Video Lectures	Links of Video Lectures for respective Topics
Dr Shailendra Tahilyani	684382616858	Analog Integrated Circuit	1. <a href="https://youtu.be/7m9nZByCkrc">https://youtu.be/7m9nZByCkrc</a> 2. <a href="https://youtu.be/MDmSI5n4UiI">https://youtu.be/MDmSI5n4UiI</a>
Navneet Kumar Pandey	794228377032	Microcontroller for Embedded System	1. <a href="https://youtu.be/CC2mpM8Ugqw">https://youtu.be/CC2mpM8Ugqw</a> 2. <a href="https://youtu.be/NM9wqgtllok">https://youtu.be/NM9wqgtllok</a> 3. <a href="https://youtu.be/jTMv7MyUsSc">https://youtu.be/jTMv7MyUsSc</a> 4. <a href="https://youtu.be/McvB99ifRJA">https://youtu.be/McvB99ifRJA</a>
Kalyan Krishna Awasthi	434028518693	Network Analysis and Synthesis, Signals and Systems	1. Network Analysis and Synthesis (BASIC ELECTRICAL ENGINEERING CONCEPTS): <a href="https://www.youtube.com/playlist?list=PLXbLuD5WN A3KnewZl2kkleJVsfbiiGdTt">https://www.youtube.com/playlist?list=PLXbLuD5WN A3KnewZl2kkleJVsfbiiGdTt</a>  2. Signals and Systems: <a href="https://www.youtube.com/playlist?list=PLXbLuD5WN A3J6HXu6LZVPcUJyTCOBh1f6">https://www.youtube.com/playlist?list=PLXbLuD5WN A3J6HXu6LZVPcUJyTCOBh1f6</a>
		Huffman Coding, Shannon's Theorem, Measure of Information,	<a href="https://youtu.be/U2cAJjXAuhw">https://youtu.be/U2cAJjXAuhw</a> <a href="https://youtu.be/O0C3YGrGlnk">https://youtu.be/O0C3YGrGlnk</a> <a href="https://youtu.be/3_pvOCd8Mw0">https://youtu.be/3_pvOCd8Mw0</a> <a href="https://youtu.be/7fzzg0xgNrk">https://youtu.be/7fzzg0xgNrk</a>
Dr. Abhimanyu Kumar Yadav	212713407288	Machine Learning	<a href="https://www.youtube.com/watch?v=AOdIcpzTgPg">https://www.youtube.com/watch?v=AOdIcpzTgPg</a>  <a href="https://www.youtube.be/YmdYnfyiY_8">https://www.youtube.be/YmdYnfyiY_8</a>  <a href="https://www.youtube.be/garqGNKS-B4">https://www.youtube.be/garqGNKS-B4</a>

- **Group Discussion:** The main motive to conduct a group discussion is to observe their knowledge and ability on different topics.

Date: 15 Sept'20

Topic: "New Education Policy"

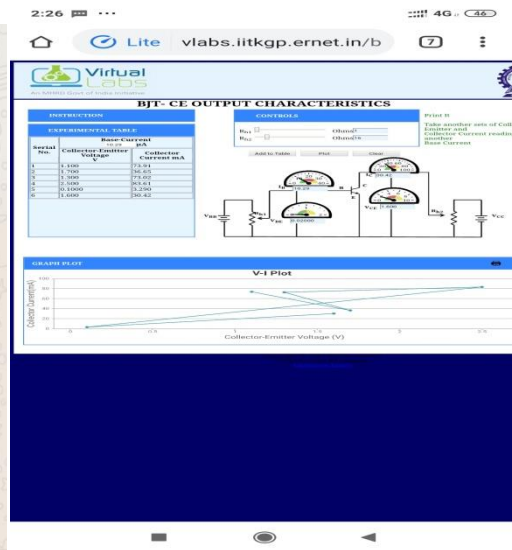
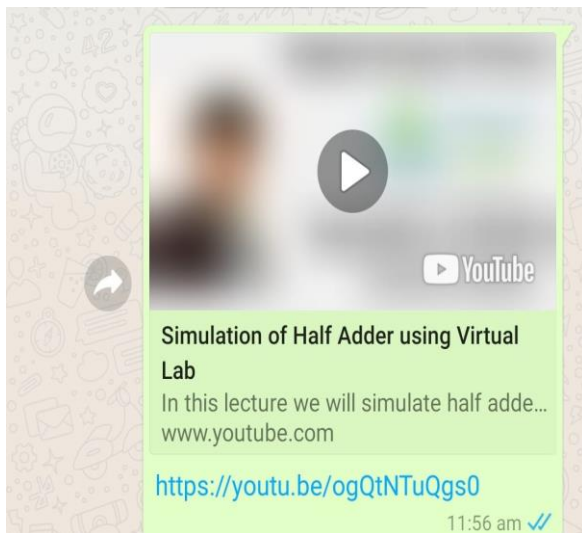
The poster is for a debate event organized by the Department of Electronics & Communication Engineering at Babu Banarasi Das Institute of Technology & Management. The event is titled "DEBATE ON THE TOPIC NEW EDUCATION POLICY 2020" and is held in celebration of Engineer's Day. It is open for all students of ECE BBDITM, with certificates provided for winners and participants. The event is scheduled for 15 September 2020, starting at 01:00 PM onwards, and will be held on Google Meet. The event coordinators are Mrs. Keerti Mishra and Mrs. Rupali Agarwal, both from the Dept. of ECE. Student coordinators are Harshit Sinha and Manas Nigam. A QR code is provided for registration, and the URL <https://forms.gle/VCCF79U8C0yG24w7> is also listed.

- **Poster Presentation:** Creating posters requires students to not only gain information about a specific topic but also to analyse information and disseminate it to others. Posters offer students to be creative in the delivery of information and to receive feedback from their peers and faculty.





- **Virtual Labs:** In the pandemic situation also our faculty members helped the students in learning basic and advanced concepts through remote experimentation.



- **Innovation through Projects:** Faculties in the department of Electronics and Communication provide continuous guidance to the students through multiple platforms. For giving more practical approach to learn theory, the department has developed “Centre of Product Development & Innovation” and “Centre of Excellence and Training Room”.



- a. **Innovation through Workshops:** Workshops provide the students, a setting to become involved and to interact with other students, thus leading to increased learning and enhanced development. A **Workshop on Embedded System Using Arduino** was organised in **Department of Electronics and Communication Engineering, BBDITM, Lucknow** on **10th March 2022** by our faculty member **Mr. Dharmesh Kumar**.

