Department of Electrical Engineering K.K. Wagh Institute of Engineering Education and Research HirabaiHaridasVidyanagari, AmrutDham, Panchavati, Nashik-422003



Table 5.5a Innovative techniques used

Sr. No.	Innovative techniques used	Remarks	Google drive links
1.	Mini projects	Encouraged hands-on learning; students demonstrated a practical understanding of concepts. Outcome: Improved hands-on skills	https://drive.google.com/drive/folders/1f_pfr18IR8dJkTsQo1OeCfCMM8jBRnWR?usp=drive_link
2.	YouTube videos	Faculty members create their own videos and share them with students. Faculties also look for top-quality videos and share them with students to enhance their understanding. Outcome: Enhanced concept clarity	https://docs.google.com/document/d/1_088gs- OcANnsuxIkyoVVjp5snwZqWIT/edit?usp=drive_link &ouid=100032385488623796920&rtpof=true&sd=true
3.	Use of Virtual laboratories	Virtual Lab provided a flexible platform for experiments. Outcome: Practical exposure	https://docs.google.com/document/d/1_088gs- OcANnsuxIkyoVVjp5snwZqWIT/edit?usp=sharing&ou id=100032385488623796920&rtpof=true&sd=true
4.	Google Classroom	Streamlined communication regarding notes, tests, video material and assignments. Outcome: Better organization and participation	https://drive.google.com/drive/folders/1v8MzCbwXbKf 83vSOTb-mkLDkgxD1jTLC?usp=sharing
5.	Cut section/ Turbo machine model Explanation	Helped visualize mechanisms; improved understanding of machine construction. Outcome: Better theoretical grasp	https://drive.google.com/drive/folders/119naWSLtQuw6 yeklayYh1KLvr89i0-Md?usp=sharing
6.	MOOCs developed by faculties	Faculties shared Udemy MOOCs prepared by them as well as by others with students. Outcome: Enhanced learning flexibility and self-study skills	https://docs.google.com/document/d/12X5uyEINDHm G8RUDBM2OU1bJsnWxAQG4/edit?usp=sharing&oui d=100032385488623796920&rtpof=true&sd=true
7.	Learning Management System (LMS) and LearniCo	Use of LMS -Quality objectives for enhancing the quality ofoutcome-based education and in making the learning environment engaging and joyful. Facilitated progress tracking; and organized resources. Outcome: Increased efficiency in learning	https://drive.google.com/drive/folders/145JH8xf99wW M9Tsl1qy_fLlvuuwxhQ?usp=sharing

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Sr. No.	Innovative techniques used	Remarks	Google drive links
8.	Use of Mathworks	Used for simulations and understanding electrical topics; faculties uploaded simulations and programs for practice. Outcome: Improved analytical and practical skills.	https://docs.google.com/document/d/1us75jokwYdO7J1 rSTGrbUmCM5skK9IrR/edit?usp=sharing&ouid=1000 32385488623796920&rtpof=true&sd=true
9.	Course delivered by Industry Experts (Co-teaching)	Industry experts provide industry insights and practical exposure for some topics in the curriculum. Outcome: Improved employability and awareness	https://docs.google.com/spreadsheets/d/11yqEhxKyA9 El- PCnPrNDYBW8JLXF1uy8/edit?usp=sharing&ouid=10 0032385488623796920&rtpof=true&sd=true
10.	Internship	Valuable experience and apply theoretical knowledge in industry. Outcome: Real-world problem-solving skills	https://drive.google.com/drive/folders/1ac1V4x6Vgh9e S2w8Ubrlh2Jo2UB3Ggrw?usp=sharing
11.	Case Studies	Promoted critical thinking and analysis through case studies. Outcome: Better decision-making and application	https://drive.google.com/drive/folders/1Lfv4zraIgDANt ND5lHNrdaCuhfoyLWve?usp=sharing
12.	NPTEL Courses Mathwork course	Faculties shared quality courses for self-paced learning. Outcome: Improved understanding and certifications	https://drive.google.com/drive/folders/1_e20Uju8eBUK RW36-lloypUhS3pVYeqv?usp=sharing
13	Publications on Engineering Educations	The faculty's publications on Engineering Education reflect a commitment to innovative teaching and learning practices. These contributions highlight research-driven methodologies that enhance student engagement, conceptual understanding, and practical skill development. Outcome:This activity includes the adoption of evidence-based teaching strategies, improved student learning experiences, and enhanced academic credibility	https://www.jetir.org/view?paper=JETIR2303611 https://www.researchgate.net/publication/369493198_N ew Approach for Providing Adaptable Curriculum E nrichment through Teaching- Learning and Evaluation https://journaleet.in/articles/project-based-learning- teaching-methodology-to-impart-knowledge-and-skills