EASWARI ENGINEERING COLLEGE
(AUTONOMOUS)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Innovation No.	Academic Year	Name of Faculty	Dept.	Course code	Code name	Description of the innovation (attach link or pdf)	Impact on teaching /Learning	Outcomes	Feedback/ Suggestions
1	2021 - 2022	Dr.E.Kaliappan	EEE	191EEE615T	Hybrid Electric Vehicles	A User Manual for retrofitting of electric bike - Wheel Design	The data provided in the manual was very useful to the students in designing the wheel and accordingly retrofit an electric bike. The studnets gained knowledge and confidence in designing and developing a product.	A team of Final year students have done a retrofitted E bike,2 students have got placed in EV related company	
2	2020 - 2021	Dr. R. Karpagam	EEE	191EEC502I	Power Electronics	Design of various power converters using circuit simulator APPLET - FALSTAD	The students understood the various type of Power converters for Various applications and were able to design and simuate the different power converters.	Final Year students did few projects	https://forms.gle/s7iyMRcYktYcXcKa9
3	2020 - 2021	Dr.D.Fathema Farzana	EEE	EE8501	Power System Analysis	Power world simulator	The students developed the skill to solve complex engineering problems.	Students were able to do few projects	
4	2020 - 2021	Dr.P.Marish Kumar	EEE	191EEC511L	Control and Instrumentation lab	Measurement of Capacitance by Schering's bridge	The students understood the measurement of capaciance by Schering's Bridge through virtual lab.	Students did the experiement vurtually and learnt the methodology of proceeding with V - lab experiments.	
5	2020 - 2021	Dr.K.V.Thilagar	EEE	191EEC402T	Electrical Machines -I	Construction and working	The students understood the construction of	Students were able to understand the concepts and	

					of DC machine	Machines by Animated video	reproduce in the exams. Improvement in results	
6	2020 - 2021	Mrs. D. Chandrakala	EEE	191EEC302T	Digital Logic Circuits	User manual for VHDL coding for combinational circuits with simulation results	Students improved their coding skills and were able to write the coding with their own way	Students were able to understand the concepts and reproduce in the exams. Improvement in results	
7	2020 - 2021	Mrs. N. Priya	EEE	191EEC503T	Electrical Machines II	Case study of health monitoring of electrical machines using machine learning techniques	Students understood the concept and the application of machine learning techniques in electrical machines.	Students did a project on health monitoring of Motors	https://forms.gle /s7iyMRcYktYc XcKa9
8	2020 - 2021	Mrs. J. Lydia	EEE	191EEC301T	Electromagnetic Theory	Power factor measurement by two wattmeter method	Determination of power factor from Wattmeter readings, the vector diagram for balance loads and the variation of wattmeter readings with the phase angles are clearly explained. The students level of understanding the concepts was enhanced and the tutorials in the video helped the students to clearly understand and solve power factor measurement problems at different load conditions.	Students were able to understand the concepts and reproduce in the exams. Improvement in results	

9	2020 - 2021	Mrs. K. A. Indu Sailaja	EEE	191EES301T	Electronic devices and circuits	Simulation using tinkercad	Students were able to understand the concept better with circuit working and seeing the output	Students did few Experiements and learnt simulation tools	
10	2020 - 2021	Mrs. K. A. Indu Sailaja	EEE	191EEC601I	Embedded system	Lecture video	students were able to gain knowledge in the scheduling process	students did few projects using Embedded Systems	
11	2020 - 2021	Mr. T. Kesavan	EEE	191EEC404T	signals and system	Animation of sampling theorem	Students can understand the concept of sampling theorem with various sampling rate	Students were able to understand the concepts and reproduce in the exams. Improvement in results	https://forms.gle /s7iyMRcYktYc XcKa9
12	2020 - 2021	Dr. C. R. Raghavendran	EEE	191EEE506T	Power plant Engineering	Creating an Atomic reactor using a Virtual prototyping (VR Concept)	Students gained knowledge on designing Power plant using Virtual Reality Concept.	Students were able to understand the concepts better as the concepts were thought through virtual tools	
13	2022-2023	Dr. K. Prabaakaran	EEE	191EEC701T	Power Electronics for Renewable Energy System	Simulation - Design of renewable energy based power grid	Students gained knowledge on designing Power Grid using Renewable Energy Sources and analyse the impact of Power Quality disturbance in Utility grid.	Students were able to understand the concepts and reproduce in the exams.	
14	2020 - 2021	Dr. G.Geethamahalaksh mi	EEE	191EEC302T	Digital Logic Circuits	KMAP SOLVER	Students can understand the procedure and practice problems using the given methodology	Students were able to understand the concepts and reproduce in the exams. Improvement in results	

Faculty Incharge   **HOD/ EEE**