



JEPPIAAR
ENGINEERING COLLEGE

JEPPIAAR NAGAR, CHENNAI, TAMILNADU – 600119

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

IP CONCLAVE 25



Our Students KANNAN D, JONY FELIX A and GOKUL SARATHY R (B.E. ECE, Batch 2021-25) presented their Project in front of Our Deputy Chief Minister of Tamil Nadu, Mr. Udhayanidhi Stalin in IP CONCLAVE 25.

The system is used to classify waste into recyclable or non-recyclable categories via machine learning. Recyclables are sorted into a dedicated bin using a servo motor, while non-recyclables are directed into a heating chamber for incineration.

The system innovatively utilizes the heat from incineration through a Peltier module, which converts thermal energy into electricity via Seebeck effect. This recovered energy powers a fan, showcasing waste-to-energy conversion.