



Patch and Play

By Circuitology Club

Time: 9:30am to 12:30pm

Date: 24th February 2024

Venue: MA115, Marwadi University



Objective

The “Patch and Play Event” was organized by the Circuitology Club to generate curiosity among the students for communication and digital electronics-related concepts like Modulation, Quantization etc. Also, to visualize and listen to the different types of waveforms and modulation techniques.

Execution

The event spanned from 9:00 AM to 12:30 PM. Prior notification was given to the students to download the VCV RACK Software, which they were required to utilize for conducting all necessary simulations. Throughout the event, participants were instructed in the manipulation of various fundamental modules through drag-and-drop methods. They were tasked with patching these modules and applying core concepts from both Digital Electronics and Information and Communication Engineering. Towards the conclusion of the event, participants were afforded the opportunity to collaborate and exchange the knowledge acquired over the preceding hours. Additionally, they were encouraged to share ideas pertaining to the musical sequences they had generated.

Learning Outcomes

PO1 (Engineering Knowledge): Participants apply fundamental engineering and software concepts to identify and fix vulnerabilities in systems or applications.

PO2 (Problem Analysis): The activity involves analyzing security flaws, debugging issues, and developing effective patches to enhance system reliability.

PO6 (The Engineer and Society): By addressing security vulnerabilities, the event promotes ethical hacking practices and highlights the societal importance of cybersecurity.

PO9 (Individual and Teamwork): Participants collaborate in teams to analyze, debug, and implement patches, fostering teamwork and technical discussions.

PO10 (Communication): The event enhances participants' ability to document security vulnerabilities, explain their solutions clearly, and present findings effectively.

PO12 (Life-long Learning): Given the evolving nature of cybersecurity threats, the activity encourages continuous learning and staying updated with the latest security trends and technologies.

PSO1: The activity equips graduates with skills in problem identification and resolution in software development, security, and embedded systems, preparing them for real-world industry challenges.

Photos of the event





Student Feedback

Feedback

Very fabulous event learn lots of things, waiting for part 2.
It was a very fun event ... i just want to ask if this possible if we can have one more session on this where we would can have more knowledge of this software
This event was fun. Complexity of concepts decreased with the level of quantization. I have never thought these boring hardware's output can be this fun Thank you so much

Fire event . Great learning. Waiting for this kind of events in future. Thanks
It was one of the best event i had... i liked the way he taught us. i wish that he will take such classes in future.... it was fun and enjoyable...
it is very good thing to learn and create crazy tune and it will good if this session will arrange again in upcoming time,so we can learn new things.
It was a wonderful session by our senior Umang. It was a lot fun. We explored many new things. Thanks to Circuitology club for organizing this event. Looking forward to more such sessions.

It was extremely new way to learn the academic concepts in musical way, as well it was a refreshment concept.

Good, very informative session

The session was quite impressive and interactive. We learned about many different concepts of ADC and also we learned new things like how different waves sound and how we can produce different music and sound from the VCV Rack software.
I loved the event and I am exited to explore more on this field.Thanks for introducing this concept to us which we weren't aware also

List of Attendees

Name	Enrollment No.	Semester No.
Albeija Bernadete Lola Laissane	92301733003	2
Helena Chongo	92301733005	2
Kaushal parmar	92301733015	2
Ashutosh kumar singh	92301733016	2
Om Makadiya	92301733022	2
Disha vadoliya	92301733028	2
Milan Jani	92301733041	2
Gouri Unnithan	92301733048	2



SHIVANI AMBATI	92301733049	2
Kakadiya Tanvi	92301733051	2
SAURABH BHUPTANI	92301733052	2
Payal Makwana	92301733057	2
Shingala kirti	92301733061	2
Lordwin Joseph	92301733065	2
Domadiya harshil	92301733069	2
Prashant Sarvaiya	92200133003	4
Harshvardhan Soni	92200133028	4
Kirtan A. Makwana	92200133031	4
Rajvi Dave	92200133038	4
Jay Mangukiya	92200133040	4
Rohan Roy	92310133003	4
Bhargav Bhalodiya	92310133004	4
Neel Raiyani	92310133019	4
Aryan Langhanoja	92200133030	4
Krushang Savaliya	92301733060	2
Mit solanki	92301733013	2