

BLENDED LEARNING

A one-stop platform offering engineering studies training solutions to B2B and B2C customers.

Challenges

The Client possesses an extensive collection of engineering-related content across various disciplines. However, there were shortcomings.

- It was disorganised and available in different formats, such as printed books, web, articles, videos, and recordings.
- The content was largely unstructured and lacked supplementary materials, leading to unsatisfactory outcomes in training programs.
- The organisation had limited awareness regarding the various departments and teams working on specific training materials for different customer segments or markets.

A significant issue arose from students feedback, particularly from the B2C group, which highlighted issues like inadequate access to laboratories, limited time slots, or a lack of essential equipment for hands-on experience with tools and applications.

Solutions Highlights

Having analysed the pain points and the expected business outcome of the training program, we applied the following elements as a part of the training design to address the key challenges.

Integrated the SARAS T&A and the vLab solution to the LMS architecture. The integration proved beneficial in multiple ways.

- First, having a virtual lab facility, each registered profile now doesn't need to be dependent on the offline laboratory slots or the conditions and availability of the apparatus. Instead, students gain hands-on experience and practical skills through immersive simulations and experiments.
- Secondly, facilitators (irrespective of the department he / she belongs to) have created a test and assessment suite in a specific course in 2022. Every facilitator is now aware of the types of assessments, interactivities, and programs already available in the LMS; and can reuse them either fully or in parts.
- Thirdly, it is easy to link assets with each other and create a structured design / framework for study that is not only accessible but also comprehensive.



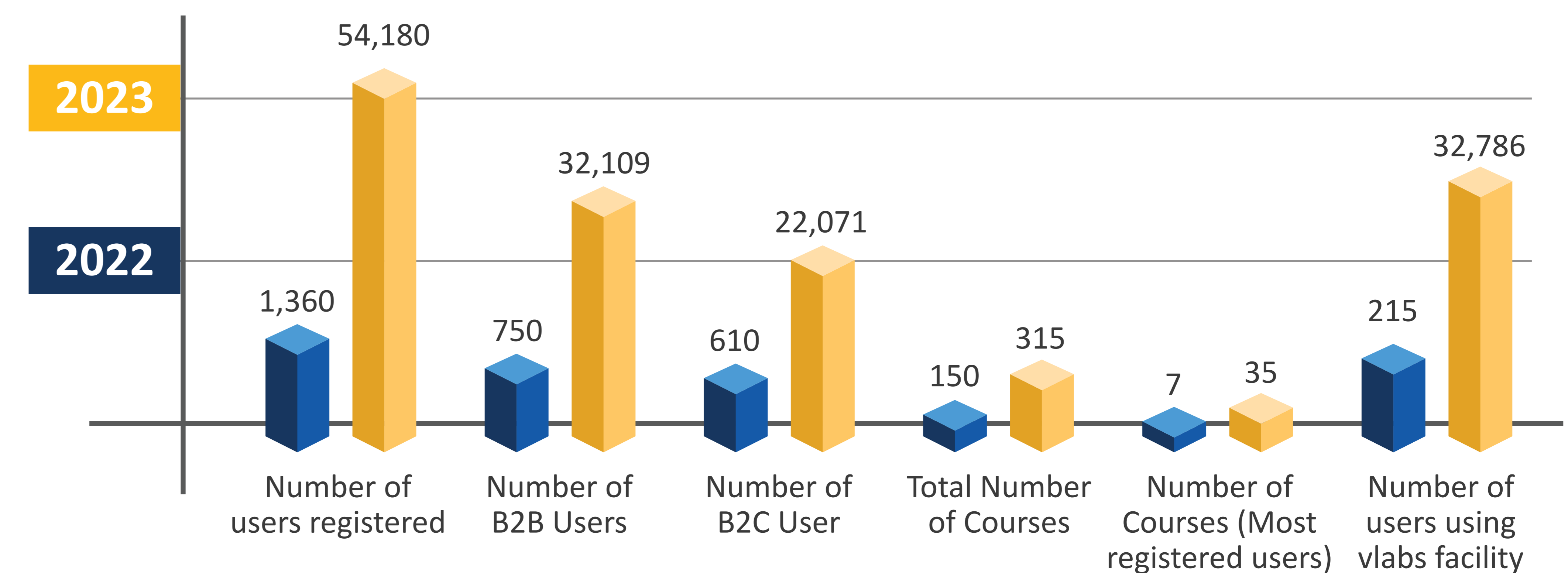
LAKSHMI.S
Student

“eLearning was a unique experience. It made me acquire real interest for the VLSI subject. The concepts, approach and assignments were very interactive and clearly presented. Lab sessions were also different from college. The projects gave us in-depth knowledge about the industry standards, at what level we are and what we need to learn to be there. I would also sign up for the RTL Design for Verilog HDL and other courses to get better understanding of the subject.”

Results

Designed a flexible micro-nugget framework for learning. As per the format, each learning asset (irrespective of the format to which it belongs) must follow a uniform seat time / duration, i.e., 3-5 minutes. These assets are later linked with each other at the backend. Having created the linkage and uniformity benefited the course design in the following ways.

- Every page, activity, test, or experiment has an equal duration – it helps the facilitator and administrator to determine the overall training duration, the ratio / distribution of online and offline study materials for the session, and the training schedules.
- Create groups, clusters, individual units, new courses, and course customisation quickly by re-using the assets or concept page within a course packet.
- Build a repository allowing individuals to learn about a concept or task in various formats – web, video, booklet, animated stories, etc.



About the Client

The Client is a 501(c)(3) professional association for electronics engineering, electrical engineering, and other related disciplines. The client produces over 30% of the world's electrical, electronics, and computer engineering literature, publishing approximately 200 peer-reviewed journals and magazines and more than 1,200 conference papers annually. In addition to journals and conference proceedings, the client also publishes tutorials and standards produced by its standardisation committees.



ASHWIN.R
Student

“Blended Learning Program was very well-organized and I am happy that I was part of this course. The labs were educational and helped me increase my knowledge, problem-solving skills and prepare for my exams.”

The Blended Learning Program combines the latest eLearning practices with extensive hands-on practice (both offline and online). The program is designed for aspiring engineers and industry workforces in various engineering fields, from aerospace to computing to cybermatics security.

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