

Atria University

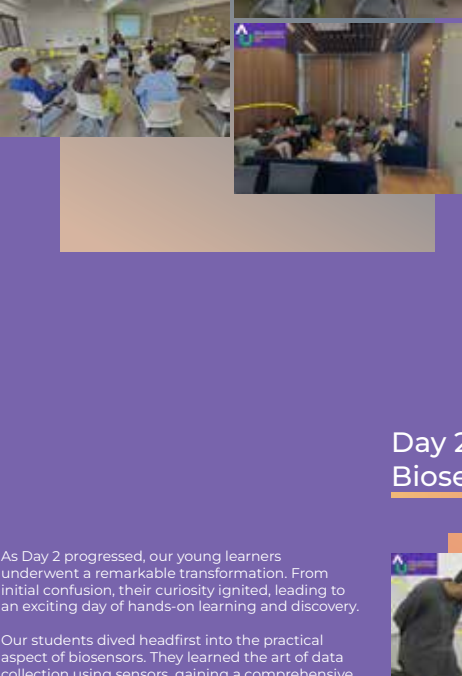
Make & Build Summer School 2023

Atria University's Make & Build Summer School 2023 was a 10-day extravaganza where knowledge and innovation intertwined, offering participants an unparalleled learning playground. Students immersed themselves in a vibrant environment that nurtured curiosity, fostered creativity, and sparked inspiration.

They embarked on an unforgettable journey of exploration, diving into cutting-edge courses, participating in hands-on workshops, and engaging in interactive sessions led by industry experts. Regardless of their passion for technology, entrepreneurship, design, or any other field, our Summer School had something incredible in store for everyone.

Read on for a day-by-day recap of our Make & Build Summer School.

Day 1 : Unveiling The World of Biosensors



The day kicked off with a warm welcome and icebreakers to help the students get acquainted with each other. Professor Saurabh Mahajan introduced the students to the intriguing world of biosensors.

Biosensors, the champions of scientific innovation, are remarkable devices that blend the power of biology with cutting-edge sensor technology. They detect and measure specific substances or biological reactions, providing real-time data that revolutionises fields like healthcare, environmental monitoring, and food safety.

The session began with an intriguing phenomenon that captured the students' attention—a fluctuating blue line displayed on a screen, accompanied by the y-axis. This mysterious line puzzled the students, igniting their curiosity and setting the stage for a day of fun exploration.

Eager to understand the connection between the line and the y-axis, the students engaged in a series of activities and experiments to unravel the mystery behind the fluctuating blue line.

The students discovered that this line might be associated with the "emotions of the human mind." By the end of the day, they were thoroughly excited to embark on a fascinating journey with biosensors.

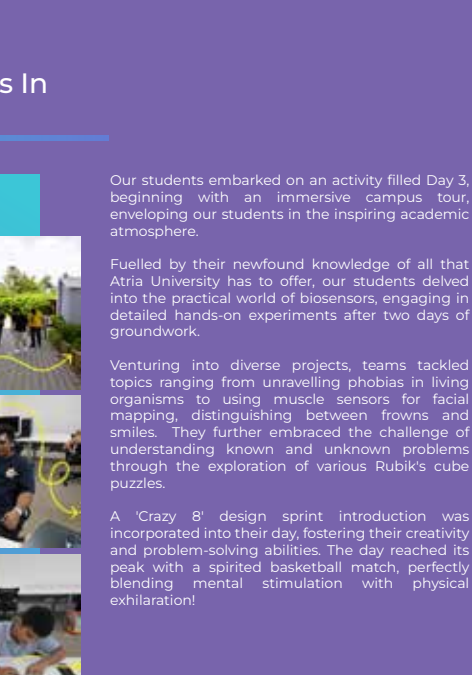
Day 2 : Deep Diving Into Biosensors

As Day 2 progressed, our young learners underwent a remarkable transformation. From initial confusion, their curiosity ignited, leading to an exciting day of hands-on learning and discovery.

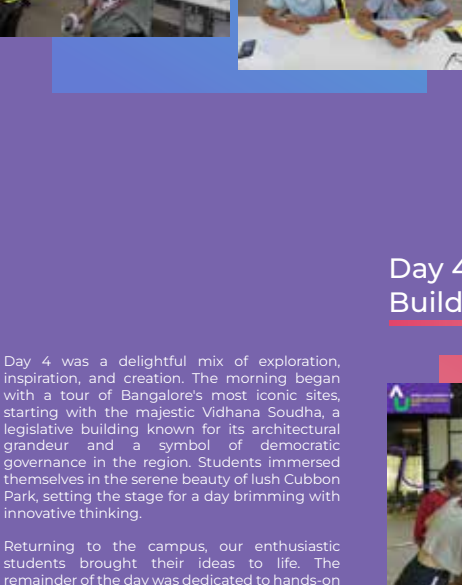
Our students dived headfirst into the practical aspect of biosensors. They learned the art of data collection using sensors, gaining a comprehensive understanding of their functioning. The students also had the opportunity to familiarise themselves with Arduino boards, an important data analysis tool and even got to operate a robot using only hand gestures!

These creative geniuses are even exploring diverse avenues, including the use of virtual reality, public surveys, puzzles like the Rubik's Cube, and stress testing.

The joy and zeal with which they embraced the learning process were truly inspiring!



Day 3 : Exploring Biosensors In Action



Our students embarked on an activity filled Day 3, beginning with an immersive campus tour, enveloping our students in the inspiring academic atmosphere.

Fueled by their newfound knowledge of all that Atria University has to offer, our students delved into the practical world of biosensors, engaging in detailed hands-on experiments after two days of groundwork.

Venturing into diverse projects, teams tackled topics ranging from unravelling phobias in living organisms to using muscle sensors for facial mapping, distinguishing between frowns and smiles. They further embraced the challenge of understanding known and unknown problems through the exploration of various Rubik's cube puzzles.

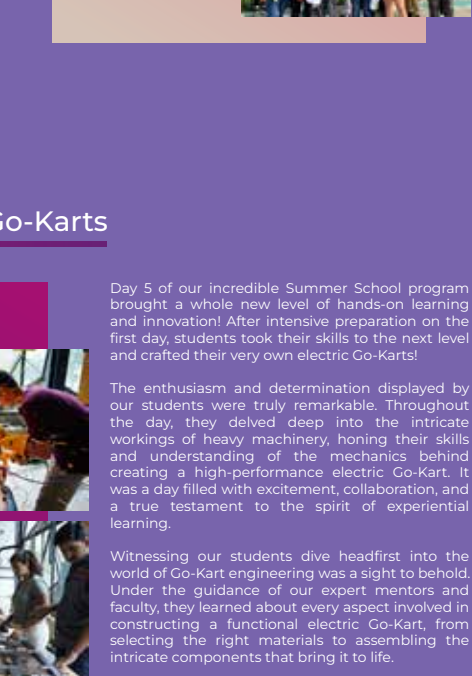
A 'Crazy 8' design sprint introduction was incorporated into their day, fostering their creativity and problem-solving abilities. The day reached its peak with a spirited basketball match, perfectly blending mental stimulation with physical exhilaration!

Day 4 : Heritage Wonders and Building Go-Karts From Scratch

Day 4 was a delightful mix of exploration, inspiration, and creation. The morning began with a tour of Bangalore's most iconic sites, starting with the majestic Vidhana Soudha, a legislative building known for its architectural grandeur and a symbol of democratic governance in the region. Students immersed themselves in the serene beauty of lush Cubbon Park, setting the stage for a day brimming with innovative thinking.

Returning to the campus, our enthusiastic students brought their ideas to life. The remainder of the day was dedicated to hands-on building, testing, and refining, paving the way for the much-anticipated Go-Kart workshop!

As the day drew to a close, students reflected on a well-spent day, eagerly looking forward to even greater things on the horizon.



Day 5 : Designing Electric Go-Karts



Day 5 of our incredible Summer School program brought a whole new level of hands-on learning and innovation! After intensive preparation on the first day, students took their skills to the next level and crafted their very own electric Go-Karts!

The enthusiasm and determination displayed by our students were truly remarkable. Throughout the day, they delved deep into the intricate workings of heavy machinery, honing their skills and understanding of the mechanics behind creating a high-performance electric Go-Kart. It was a day filled with excitement, collaboration, and a true testament to the spirit of experiential learning.

Witnessing our students dive headfirst into the world of Go-Kart engineering was a sight to behold. Under the guidance of our expert mentors and faculty, they learned about every aspect involved in constructing a functional electric Go-Kart, from selecting the right materials to assembling the intricate components that bring it to life.

Day 6 : Beyonders' Day Out

Day 6 took our young learners to Mysore, where they got to explore the Atria Group's diverse portfolio and also get a taste of the historical city's heritage.

First stop was the Atria Brindavan Hydro Power Plant, situated on the banks of the Krishna Raja Sagar (KRS) Reservoir, where students were captivated by the massive operations and learned about the intricacies of hydroelectric power generation. They even got to walk on to the KRS Dam bridge and take a look at the dam floodgates up close. After a sumptuous meal at the Royal Orchid Hotel, overlooking the gorgeous Brindavan Gardens, students visited the majestic Mysore Palace, immersing themselves in its rich history. Our students' Beyonders Day Out concluded with a shopping spree at a heritage emporium and a traditional filter coffee.

On the journey back to Bangalore, the bus ride turned into a mini party with the latest hits playing in full swing, ensuring a joyful end to the day, leaving behind the woes of any traffic jams. Albeit a short day trip, this experience left our students eager for more incredible experiences to come!



Day 7 : Art, Science, and Locavore Delights



Day 7 of Atria University Summer School was a whirlwind of excitement and inspiration. Our students had a blast learning the art of capturing flower scents in oils, creating incredible extracts and exploring their potential for body applications.

The brilliance of our students reached the ears of none other than our esteemed Founder, Mr. Sunder Raju. He graciously took the time to engage in heartfelt conversations with our young talents, discussing their Summer School experiences and their aspirations in STEM. This unexpected visit was a cherished moment for everyone involved.

Students got their creative juices flowing while delving into a workshop on cyanotype photography. Armed with unique photosensitive solutions and iron compounds, they produced some fun, eclectic blue-toned prints. The final results were a testament to their imagination and artistic flair.

They also had the opportunity to visit Farmlore, Mr. Kaushik Raju's award-winning molecular gastronomy restaurant, and Hydrolore, his sustainable farming venture. This immersive experience introduced them to the concept of locavore and the vast potential of sustainable farming in urban spaces, fostering a deep connection with nature. This was an extraordinary day of exploration and inspiration, leaving an indelible mark on our students' Summer School journey.

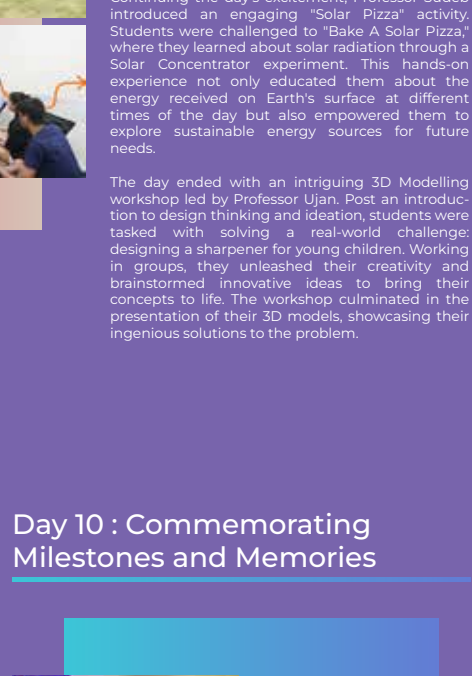
Day 8 : Lights, Camera, Action!

Day 8 at the Atria University Summer School was all about lights, camera, and action! The day began with a video-making workshop led by the talented filmmaker, Mr. Sendhil. With his expertise, they gained valuable insights into the intricate process of video production. Splitting into teams, the students engaged in enthusiastic discussions, brainstorming ideas for their projects and determining the shooting styles they wanted to pursue. The excitement was palpable as they prepared to bring their creative visions to life.

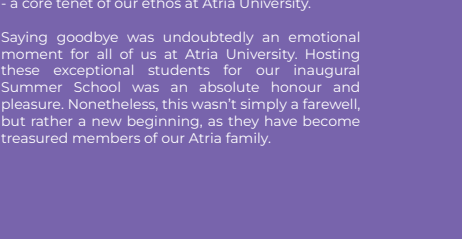
From concept to action, the students put their newfound knowledge into practice. After exhaustive video shoots, they eagerly gathered around their Go-Karts, which they had designed and assembled from scratch.

Despite a heavy morning downpour, the students' spirits remained undeterred. Once the rain subsided, they seized the opportunity to unleash the thrill of racing their self-built Go-Karts on the track, strictly adhering to safety measures such as speed limits and helmets. Their unwavering enthusiasm was a testament to their passion for the project.

As they watched the results of their hard work unfold on the screen, a sense of pride and accomplishment filled the air. This hands-on experience not only allowed them to appreciate the complexities of battery technology but also highlighted the tangible outcomes that arise from their creativity and technical skills.



Day 9 : Microbial Marvels, Solar Solutions and the Art of 3D Design



The penultimate day of Atria University's Summer School, was an action-packed day of activity-based exploration. Our brilliant learners immersed themselves in a fascinating analysis of bacterial antibiotic sensitivity, examining bacteria present in fruits, water, soil, and human body surfaces. Dr. Abhishek led this activity, providing valuable insights into the diverse bacterial populations and their reactions to antibiotics in different environments. Adding an artistic twist, the students also participated in a drawing competition using live bacterial cultures in their Petri dishes, combining creativity with their newfound knowledge of microbiology and bacterial growth patterns.

Continuing the day's excitement, Professor Sudeb introduced an engaging "Solar Pizza" activity. Students were challenged to "Bake A Solar Pizza," where they learned about solar radiation through a Solar Concentrator experiment. This hands-on experience not only educated them about the energy received on Earth's surface at different times of the day but also empowered them to explore sustainable energy sources for future needs.

The day ended with an intriguing 3D Modelling workshop led by Professor Ujan. Post an introduction to design thinking and ideation, students were tasked with solving a real-world challenge: designing a sharpener for young children. Working in groups, they unleashed their creativity and brainstormed innovative ideas to bring their concepts to life. The workshop culminated in the presentation of their 3D models, showcasing their ingenious solutions to the problem.

Day 10 : Commemorating Milestones and Memories

As the final day of Atria University's Summer School drew to a close, a mix of emotions filled the air. It was a bittersweet moment, marking the end of an incredible chapter while opening doors to new opportunities. With a touch of creativity and a spark of brilliance, our students showcased their achievements, leaving us in awe.

During the day, students marvelled at the physical manifestations of their 3D modelling workshop, witnessing firsthand the ingenious and imaginative sharpeners they had designed for young children. Additionally, Dr. Abhishek guided them through the outcomes of their Petri dish activity, unveiling the fascinating results of their scientific exploration.

Post lunch, our closing ceremony took everyone on a journey down memory lane, reliving the past ten days of this remarkable summer school. The announcement of the winners of the video workshop brought a burst of excitement. "Business Affair," a quirky and exceptionally creative short video, claimed the top spot, capturing hearts and minds. Moreover, we celebrated the achievements of the winners of the Petri dish competition and biosensors.

Mr. Santosh Kanekar, the Head of Atria Education, delivered an inspiring closing address, expressing his immense pride in witnessing the personal growth of our students. He offered invaluable advice and underscored the importance of pursuing one's endeavours "dil se" (wholeheartedly) - a core tenet of our ethos at Atria University.

Saying goodbye was undoubtedly an emotional moment for all of us at Atria University. Hosting these exceptional students for our inaugural Summer School was an absolute honour and pleasure. Nonetheless, this wasn't simply a farewell, but rather a new beginning, as they have become treasured members of our Atria family.

