

FORMULA MONDAY

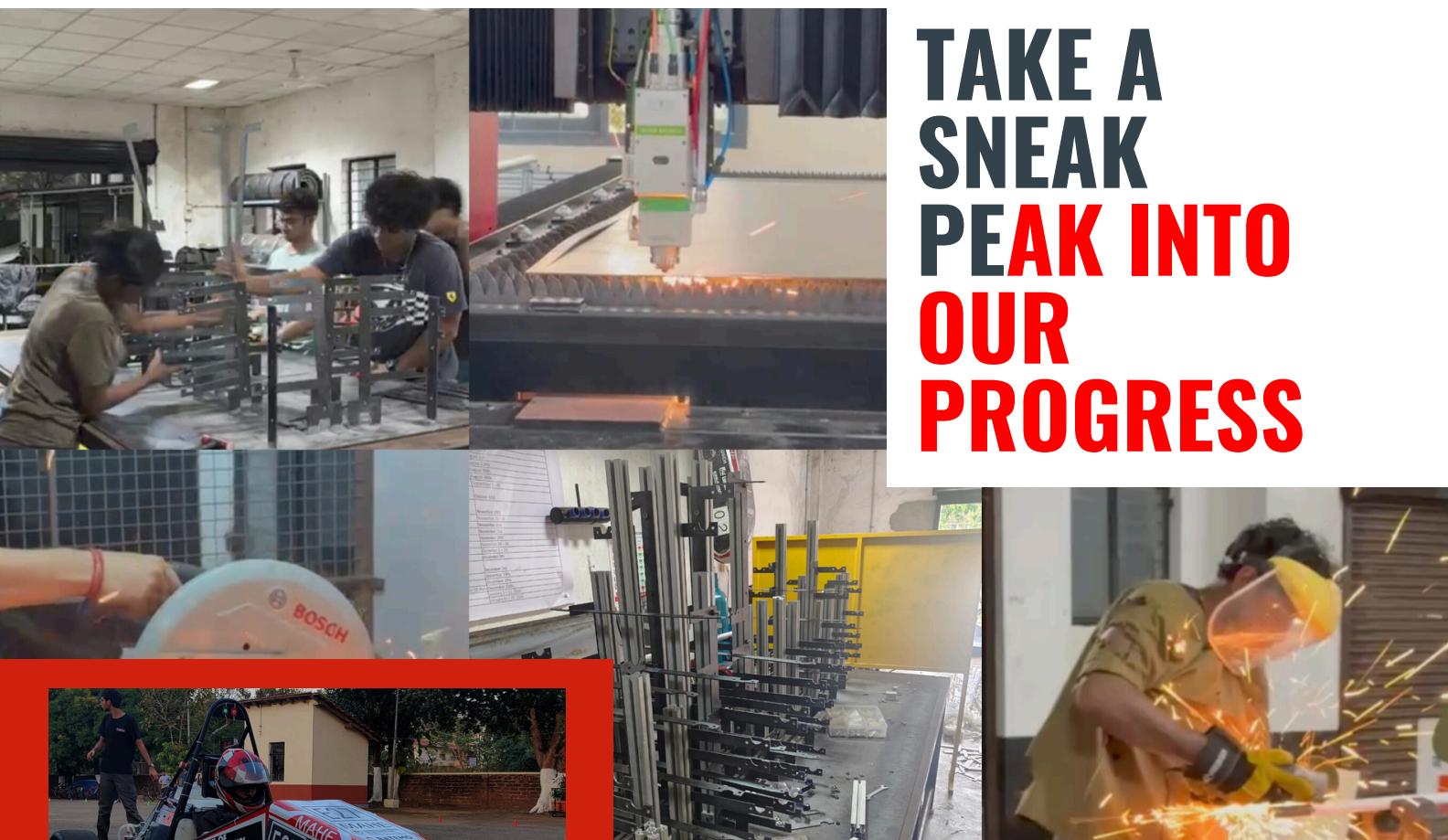
JUNE 2025

 | **FORMULA**
manipal
Engineered with Passion



KEEPING UP WITH FM

TAKE A SNEAK PEAK INTO OUR PROGRESS



Structures

The Structures subsystem manufactured and assembled the fixtures, and also hand-profiled the chassis tubes. Once the fixtures were ready and all tubes were accurately profiled, the tubes were placed on the fixtures for alignment. Following this, the tubes were securely tacked in place, marking a crucial step towards the final chassis welding and integration.

Aerodynamics and composites

This month, the Aerodynamics and Composites team finalized the front and rear wing designs after multiple simulation iterations on STAR-CCM+. Sidepod and cooling inlet designs are currently in progress. Layups for the floor panel and some body panels were successfully completed. Iterations for wing mounting ribs, spars, and the steering wheel structure are in progress.

Vehicle dynamics

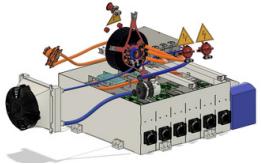
In June, Vehicle Dynamics finalized designs for uprights, clevises, and steel wishbone inserts, which were sent for manufacturing. Motion ratio, spring rate, rear toe link positioning, and front damper mount were confirmed. Progress continued on anti-roll bar, brake pedal, pedal assembly, and rotor designs. A vendor was contacted for CF insert testing; tyre model development progressed.

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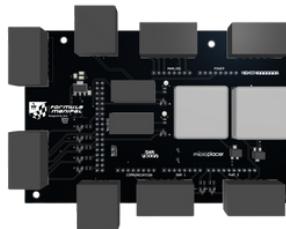
Transmission

This month, the transmission fixtures and brackets were manufactured, and kept ready to weld the transmission assembly onto the new chassis in the coming month. Spares mounts, sprockets, along with the one piece intermediate shaft and new halfshafts are to be manufactured by Teal, who are providing an in-kind sponsorship.



E-Powertrain

The EPT subsystem manufactured the battery pack for the upcoming season. The team is also prototyping various parts to improve the DFA process of the segments for the battery pack. Alongside, the team is working on calculations to optimise the cooling system as well.



Electronics and controls

The ECS subsystem began the process of fabrication of PCBs for the car. The PCBs were tested and validated as well. The wiring harness for FM26 was prepared as well, and the process of manufacturing the harness is in progress.



Driverless

Work was started on the initial safety circuitry and motor controller connection for Tarzaan 2025. Initial simulations for the precharge and discharge circuitry have been completed, and now will be tested on site.



Grit, Grind, Glory: Inside Formula Manipal

Featured

 July 9, 2025

 News Desk

WE ARE FEATURED !

We're excited to share a fantastic article written by Formula Manipal alumna Keerthana Mukesh, featured on the reputed EV Tech website! The article highlights Formula Manipal's journey, innovation, and unwavering spirit in the world of electric mobility.

A special shoutout to Arnav, our 2nd-semester recruit from the task phase, whose initiative and dedication made this feature possible. It's incredibly motivating to see such drive and ownership from our youngest team members, setting the bar high for others.

We also extend our heartfelt thanks to EV Tech for recognizing and featuring our team. Moments like these not only boost team morale but also validate the hard work we put in every single day.

It's a powerful glimpse into what drives Formula Manipal forward every season!

THANK YOU SPONSORS



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