



Yeast Beast

**The beer crate racing competition
under Formula Student Czech Republic**

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1 Introduction

Alright, listen up, fellow Formula Student friends. We all know that the season is intense: endless hours in the workshop, last minute fixes, and way too many energy drinks. But let us be real, there are always those moments when you are just standing around, waiting for something to happen. That is where this *beast of a competition* comes in!

We figured, why not give all that wasted potential something fun to do? So, we are bringing you the most ridiculous side competition of the season – **racing beer crates**. Grab a beer crate, slap some wheels on it, and prove once and for all which team has the best (or worst) engineering skills when it actually does not matter.

Expect wild designs, epic wipeouts, crazy aerodynamic packages, shining lights, and way too much competitive spirit for something this dumb. Whether you are here to win, to crash spectacularly, or just to laugh with your friends, this is the perfect way to make summer races even more fun.

So, get building, get racing, and let's see who is the true Yeast Beast!

2 Rules

As for the Formula Student competition, the rules regarding constructing a racing car are *mostly* straightforward and clear, but lately, there are many of them and it's getting out of hand. Regarding our competition, there will be only a few basic rules, giving you a free hand in what you can come up with:

- YB 1.1 The entire powertrain, including the wheels, must fit within the interior of the standardized beer crate (400x300 mm). The height of the crate may differ based on the manufacturer.
- YB 1.2 The powertrain can have a maximum voltage of 60V and maximum motor/engine power of 2 kW. Implementing an "off the shelf" powertrain is allowed (e.g., for electric scooters, hoverboards, grass cutters, and many more).
- YB 1.3 The racing beer crate must not be louder than 90 dB.
- YB 1.4 During the race, only the team's driver may be present on the race track and start the racing beer crate.
- YB 1.5 Driver must wear a protective helmet. Customization to the helmet in the form of lights, wraps, speakers, or wings is allowed.
- YB 1.6 Prior to the competition, each team must submit the *This Seemed Like a Good Idea* sheet for their racing beer crate to the officials. This document serves as a small engineering design exercise outlining the team's technical concept and construction choices.
- YB 1.7 Each racing beer crate must have a visible *Yeast Beast Number* on its side. The number is based on your official FSCzech team number (example: E42 => **B42**).
- YB 1.8 Good engineering practice is to be ignored during this event.

3 Cone track

Based on the location of the race, the cone track should be held on a hard surface (tarmac, road...) and it must at least consist of:

- Slalom
- Hairpin with a wet surface
- Off-the-track cheerleaders

4 Scoring and penalties

YB 2.1 Final team standings are determined by results in the knockout bracket. Each team is permitted to complete a single lap only (approx. 200 metres). Two drivers from opposing teams will compete simultaneously in a head-to-head format in each run. The running order will be announced to the teams prior to the competition.

YB 2.2 A separate *Beauty and the Yeast Award* will be presented for the most creative and ridiculous design. Judging is subjective and favors wild aerodynamic packages, excessive lighting, and thematic driver attire.

YB 2.3 Not following the rules can result in the team or driver being disqualified.

YB 2.4 Everyone present at the event is required to follow the official's instructions and assist them if requested. Violation of this rule may result in the attendee being removed from the event.

