**Tasks Vehicle Dynamics Department**

**General:**

* Know about motorcycle dynamics and the stability issues
* Help the other deparments with values
* Start early -> they want the values/ranges when they start designing

**Department specific:**

Powertrain:

* Necessary torque and gear ratio to reach certain laptime/goal
* At which point more torque doesn’t result in an improvement
* How much energy is needed for the race

Chassis:

* Where to put the COG -> location ranges
* Range for the best wheelbase
* Ranges for caster angle, rake, trail
* Internal loads on the frame (acceleration/deceleration differences between front and rear wheel during the braking/acceleration/cornering)