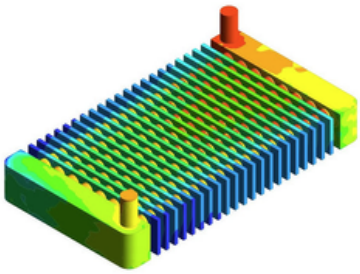


SUGGESTED TOPIC FOR SCIENTIFIC WORK

Radiator



The University of Stuttgart Racing Team is offering a project focused on developing a custom radiator. The goal is to design, construct, and evaluate an efficient cooling system for a Formula Student vehicle.
As part of the project, existing solutions will be analysed, and a custom concept will be developed based on this analysis. The design will be carried out using thermal calculations and optional simulations (e.g., CFD). The radiator will then be manufactured.



Another key focus is validating the developed system. Its thermal performance will be verified through simulations and/or experimental tests. Measurement results will be compared with calculated values to validate and optimise the models. The topic is merely a suggestion and must be finalised with the institute.

Tasks:

- Thermal Design
- Construction
- Validation

Requirements:

- CAD-Experience
- Thermodynamic Knowledge
- Optional: CFD Experience