

**CONCURSUL INTERNAȚIONAL STUDENȚESC DE INGINERIE
A AUTOVEHICULELOR
„Profesor universitar inginer Constantin GHIULAI”**

Secțiunea „Automotive CAD – CATIA”

**THE INTERNATIONAL CONTEST FOR STUDENTS
IN AUTOMOTIVE ENGINEERING
„PROFESSOR ENG. CONSTANTIN GHIULAI”**

The „AUTOMOTIVE CAD – CATIA V5” Section



**TEMATICĂ PENTRU CONCURS
The contest subjects**

CATIA V5 Workbenches required:

- **Sketcher** – complete
- **Assembly Design** – Product Structure Management, Constraints, Analysis, BOM, Assembly Features, design in assembly context, no clashes at the end excepting for fixtures, create an exploded scene) – [final Assy management](#)
- **Part Design** – Sketch Based Features, DressUp Features, Surface Based Features, Transformation Features, Boolean Operations – nice to have if helps – [for solid modelling](#)
- **Interactive/Generative Drafting** – complete – [for a final Assembly Drawing with required dimensions and BOM](#)
- **Generative Shape Design 1** - Work without hybrid design (Enable hybrid design deactivated), Wireframe geometry, Surfaces including Explicit Sweeps and Multi-sections, Operations on wireframes and surfaces) – [advanced shape design](#)

Bibliography

*** - CATIA V5. Software Documentation.