

3DEXPERIENCE

BRUSHLESS ELECTRIC MOTOR 3 WHEEL VEHICLE -DESIGN AND ANALYSIS

GREEN CITY MOTION



With SIMULIA and CATIA V5

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(((CASE STUDY: BRUSHLESS ELECTRIC MOTOR 3 WHEEL VEHICLE -DESIGN AND ANALYSIS

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(((SITE: Aula Virtual – DSS PLM Center

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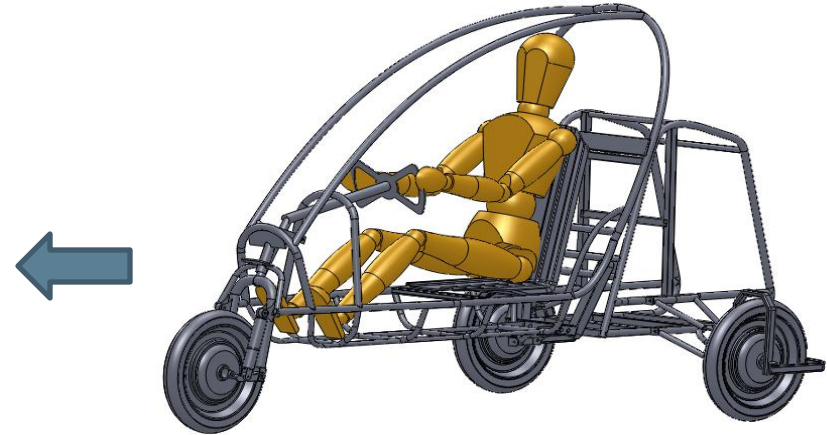
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OBJECTIVES:

DESIGN OF A THREE WHEEL ELECTRIC VEHICLE. THE VEHICLE IS POWERED WITH 19 5 KW/HS LITHIUM BATTERIES. THE ELECTRIC MOTORS ARE BRUSHLESS TYPE. THE DESIGN SPEED IS 60 KM/H WITH A RANGE OF 300 KM.



SUMMARY:

- ✓ ERGONOMIC DESIGN OF THE VEHICLE
- ✓ STRUCTURAL ANALYSIS AND DESIGN OF THE MAIN AND SECONDARY STRUCTURE
- ✓ TILTING MECHANISM DESIGN ,STRUCTURAL ANALYSIS AND CINEMATIC ANALYSIS
- ✓ STRUCTURAL DESIGN AND ANALYSIS OF REAR SUSPENSION SYSTEM
- ✓ MANUFACTURING DRAWINGS

