

LEVEL 5 ASSESSMENT SPECIFICATION

Student name:		Student ID number:	
Programme:	BA/MDes Automotive & Transport Design		
Module:	Vehicle Technology		
Module code:	M5X01364	Contribution to Overall Module Assessment (%):	CW2 - 50%
Lecturer:	Paul Morrow	Internal Verifier:	
Assignment Title:	Vehicle Structure & Aero	Word count (or equivalent):	2000 word
Submission deadline:	By 16:00 on 03.04.19	Return date of provisional marks & written feedback:	20.05.19
Submission method:	All written assessments, where practical and possible, must be submitted via Turnitin unless otherwise instructed by the Lecturer. (Please DO NOT put this assessment specification into Turnitin or it will match many similarities with other students' submissions.) Alternative submission method (if applicable): Late submission of the assessment will result in a late penalty mark. Penalties for late submission: Up to one week late, maximum mark of 40%. Over one week late, 0%. Only the Extenuating Circumstances Panel may approve a change to submission dates.		
Academic honesty / referencing:	Academic honesty is required. In the main body of your submission you must give credit to authors on whose research and ideas your work is based. Append to your submission a reference list that indicates the books, articles, etc. that you have used, cited or quoted in order to complete this assessment.		

Module Learning Outcomes (from module syllabus)

- Specify methods of construction and materials in vehicle designs and demonstrate knowledge of the principles of vehicle aerodynamics.

TASK DESCRIPTION

As designers a basic understanding of vehicle body structure and aerodynamic consideration will help you make informed decisions when proposing new designs, hopefully allowing you to avoid confrontation with design engineers.

Your task is to produce a 2000 word report answering the following two questions (Use reference imagery in your report):

Q1 Choose two of the following body/chassis structure types & discuss the pros and cons:

- Bonded aluminium chassis tub with fibre glass body (lotus Elise)
- Steel Monocoque (most cars on the road today)
- Generative Design (a potential new approach to chassis design & manufacture)

Q2 An understanding of aerodynamics as it relates to automobiles is considered to be important in order to improve which major areas of performance and explain the criteria that effects drag/wind resistance of a vehicle?

Deliverables:

An A4 printed copy of your report and a digital submission through Turnitin.

Note: Name the front page of your report **Vehicle Tech 2 – Vehicle Structure & Aero** plus your name.

Please label your digital file for Turnitin:

VT2-2019_ Your Surname-Your First Initial - i.e., VT2-2019_Smith-A

Submission Deadline:

Please hand in a printed copy to ALEX reception & a Turnitin submission **by 16:00 on Wed 03.04.2019.**

Assessment Criteria: the project will be assessed in relation to the specific deliverables as follows: - LO2 Will be assessed using the common assessment & marking criteria 1,2,3 & 5:

1. **Engagement with Literature Skills 20%** - *Evidence of Research*
2. **Knowledge and Understanding Skills 30%** - *Understanding of Basic Principles*
3. **Cognitive and Intellectual Skills 25%** - *Evidence of sound judgement*
5. **Transferable Skills for Life and Professional Practice 25%** - *Composition & Communication*

Feedback:

Work will be reviewed in small group and individual tutorials with tasks being designated and reviewed the following week a part of the 'formative' feedback process. So you must attend.

You will be provided with written 'Summative' (marks) feedback and the opportunity to discuss your performance in a studio tutorial on or before the feedback date 20.05.19.