Section C – Development of design proposal(s) 25 Marks

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| Development of design proposal(s)  (25 marks) | Nothing worthy of credit | The rationale for design decisions is documented but this may not always be justified and may be lacking reference to the design brief, specification and investigations during the development of their design proposal. | | | | | | The rationale for design decisions is documented with some justification and reference to the design brief, specification and investigations throughout the development of their design proposal. | | | | | | The rationale for design decisions is documented and justified with regular reference being made to the design brief, specification and investigations throughout the development of their design proposal. | | | | | | The rationale for design decisions is clearly documented and fully justified with constant reference being made to the design brief,  specification and investigations throughout the development of their design proposal. | | | | | | |
| In the development of their design proposals the student will demonstrate little evidence of innovation, originality, creativity and willingness to take design risks. | | | | | | In the development of their design proposals, some of which will demonstrate evidence of innovation, there will be elements of originality, creativity and a willingness to take design risks. | | | | | | In the development of their design proposals, many of which will demonstrate an innovative approach, the student will demonstrate evidence of originality, creativity and a willingness to take design risks. | | | | | | In the development of innovative design proposals the student will demonstrate clear evidence of originality, creativity and a willingness to take design risks. | | | | | | |
| Basic use of a single or only simple, modelling technique(s), with limited evidence that this supports any subsequent development work. There is some evidence of drawings, sketches, annotations or notes but these do not always inform their design thinking. | | | | | | Adequate use of modelling techniques to support development work. There is evidence of drawings, sketches, annotations and notes which can be seen to inform subsequent design thinking. | | | | | | Good use of modelling techniques support ongoing development work throughout, showing clear evidence of design thinking supported by the use of drawings, sketches, annotations and notes. | | | | | | Excellent use of a variety of modelling techniques to support ongoing development work throughout. This is supported by the use of drawings, sketches, annotations and notes showing clear evidence of design thinking. | | | | | | |
| Basic refinement of design proposals, with only basic exploration  and experimentation of different materials, techniques and  processes leading to a basic quality design of a prototype for manufacture. | | | | | | Some ongoing development of design proposals, achieved through  exploration of and experimentation with different materials, techniques and processes leading to an adequate quality design of a prototype for manufacture. | | | | | | Good ongoing development of design proposals, achieved through exploration of and experimentation with different materials, techniques and processes leading to a good quality design of a prototype for manufacture. | | | | | | Excellent ongoing development of design proposals, achieved through exploration of and experimentation with different materials,  techniques and processes leading to an excellent quality design of a prototype for manufacture. | | | | | | |
| A basic manufacturing specification produced with limited reference to quality control checks, which may not be sufficiently detailed for a third party to interpret accurately. | | | | | | An adequate manufacturing specification produced which makes some reference to quality control checks and allows partially accurate interpretation by a third party. | | | | | | A detailed manufacturing specification is produced which includes reference to relevant quality control checks and allows for mostly accurate interpretation by a third party. | | | | | | Comprehensive and fully detailed manufacturing specification produced which makes specific reference to relevant quality control checks and allows fully accurate interpretation by a third party. | | | | | | |
| Superficial evidence that project management for manufacturing  allows for further development of design proposals and which may  not enable the made outcome to be achieved in a realistic timescale. | | | | | | Project management for manufacturing allows for some further development of design proposals in response to evaluation and testing and enables the made outcome to be achieved in a realistic and achievable timescale. | | | | | | Project management for manufacturing allows for some further development of design proposals in response to ongoing evaluation and testing with some consideration of contingency planning as prototype development takes place. | | | | | | Project management for manufacturing allows for further development of design proposals in response to ongoing evaluation, testing and full consideration of contingency planning as prototype development takes place. | | | | | | |
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| Notes |  | | | | | |  | | | | | |  | | | | | |  | | | | | | |