Prifysgol Cymru
Y Drindod Dewi Sant
University of Wales
Trinity Saint David

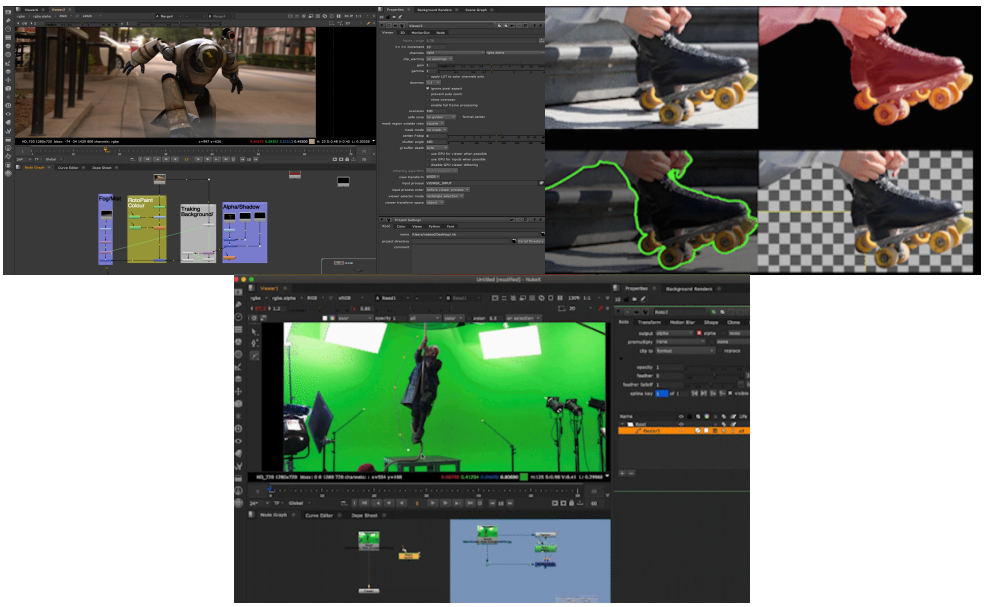
APPENDIX GA36d

LEVEL 7 ASSESSMENT SPECIFICATION

Programme:	**MA Computer Animation**		
Module:	**Post Production**		
Module code:	**ADGD7007**	**Contribution to Overall Module Assessment (%):**	**100%**
Lecturer:	**Nabeel Masih**	**Internal Verifier:**	**Rich Morgan**
Assignment Title:	Compositing techniques for VFX post production workflow	**Word count (or equivalent):**	**NA**
Submission deadline:	**26th April 2024 – Friday – 23:59**	**Return date of provisional marks & written feedback:**	**No later than 20 working (term-time) days post submission date.**
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):** **Video Submission.** **Late submission of the assessment will result in a late penalty mark.** Penalties for late submission: Up to one week late, maximum mark of 50%. 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)
• Deal with complex post-production problems both systematically and creatively to aesthetically combine sophisticated animation with visual effects sequences in a multi-layered composition. • Use self-direction and originality when combining a variety of live-action and computer-generated audio-visual material to create and layer images and sequences for (final) digital output.

TASK DESCRIPTION



This assignment requires you to work **individually**.

For this assesment you will produce three different shots that will showcase your compositing skillset using Nuke or After Effects. All completed shots should be presented as both a final composite render and a breakdown render highlighting the individual elements of the shot, and the work undertaken.

You will design and produce effective solutions for compositing to real live footage, demonstrate an awareness of a compositing workflow, justify decision making, Identify and critically evaluate the relationship between effective design, planning and management of an audio visual post-production project, combining different visual elements.

Task1

You'll be using the 3D product you created in module **ADGD7003** – **3D Product Design Modelling** to complete this task . You are assigned by "Pinksquare" 3D Production animation compney. You are asked to build an engaging cinematic style and present the 3D product from the best possible 3D perspective view.

Your 3D Product animations should have the most effective approach to simplify the complex and demonstrate the features of your technological products. The 3D animation commercial that sets you're your 3D product apart from the industry.

Produce a image sequence using Adobe After Effects or Nuke for compositing,
post-effects, colour correction, and sound design, followed by Adobe Premiere Pro or DaVinci Resolve for the final cut. You can use narration and/or music.

This sequence should last for at least 30 - 90 seconds long.

Composite shots should be in the following 16/9 format:-

Video files should be at a minimum resolution of HD 720 25p (ie 1280 * 720 with square pixels at 25 fps) and in a readily readable file format (.avi .mp4 .m4v .mov .mkv) and compressed appropriately using a codec such as H.264/MPEG-4.

Task 2

Choose two of the followings VFX techniques:

1 Rotoscoping and 2D Tracking shot: *short duration* 2sec – 4sec / 50 Frame / 25fps

Choosing from a selection of provided footage, you will perform rotoscoping and 2D tracking match-moving techniques. To work as a junior in the VFX industry, this is the most common tool used. Rotoscoping allows you to very accurately modify frames for a sequence or animation on a frame-by-frame basis.

Tip - transform mask node, animating mask for rotoscoping, merging shapes together, integrating rotoscope with another piece of footage and out putting mask into an image sequence and tracking.

2 Green or blue screen keying shot: *short duration* 1min / 1500 Frame / 25fps

Choosing from a selection of provided footage, you will demonstrate how to analyse green screen footage, alpha quality, primatte, de-noise, de graining green screen footage, rotoscoping subjects for isolation, screen matte, despill controls and integrating the green screen footage into the vfx scene.

You are required to demonstrate **two** techniques in keying processing.

1. Keyer Node and Premult Node
2. Keylight Node
3. Prematte Node
4. IBK Colour Node and IBK Gizmo Node

3 Final *VFX shot* as a junior artist: *short duration* 6ses / 150Frame / 25fps

Using a variety of compositing skills, record your own short footage (between 2 and 3 seconds long)*. You should create an accurate camera track and consider how you can manipulate or add to your footage to create an interesting final composite. This can include integrating 2D and 3D rendered elements from external sources.

Note that this task is an independent learning task, which should demonstrate the methods covered in this module, and is a chance to fully showcase your ability and creativity.

Composite shots should be in the following 16/9 format:-

Video files should be at a minimum resolution of HD 720 25p (ie 1280 * 720 with square pixels at 25 fps) and in a readily readable file format (.avi .mp4 .m4v .mov .mkv) and compressed appropriately using a codec such as H.264/MPEG-4.

Submit 3 Sequences:

1. Submit a correctly formatted and properly slated composited shot to staff and colleagues at assessment time.
2. Submit a sequence which breaks down and separates the layers and passes that you have used to build the shot above. You can do this by selecting just one frame from each layer of your shot to demonstrate this if you wish.

With regard to the Compositing.
You can use Nuke or any compositing package.
Providing you include all the elements mentioned above in "Elements you MUST include" you can add, or include any other element that you think might improve this shot or your interpretation thereof. You can process or filter existing elements or add entirely new ones.
Your Post Production of all exercises will be assessed via:

Your submission uploaded on to the shared OneDrive on the date stated by this assignment specification and at the time stated by your tutor.

GUIDANCE FOR STUDENTS IN THE COMPLETION OF TASKS

NOTE: The guidance offered below is linked to the five generic assessment criteria overleaf.

1. Engagement with Literature Skills

Your work must be informed and supported by scholarly material that is *relevant* to and *focused* on the task(s) set; you should make use of scholarly reviews and primary sources, as appropriate (for example, refereed research articles and/or original materials appropriate to the discipline). You should provide evidence that you have accessed a wide *range* of sources, which may be academic, governmental and industrial; these sources may include academic journal articles, textbooks, current news articles, organisational documents, and websites. You should consider the *credibility* of your sources; academic journals are normally highly credible sources while websites require careful consideration/selection and should be used sparingly. Any sources you use should be current and up-to-date, mostly published within the last five years or so, though seminal/important works in the field may be older. You must provide *evidence* of your research/own reading throughout your work, using correctly a suitable referencing system, including in-text citations in the main body of your work and a reference list at the end of your work.

Guidance specific to this assessment: (Marks Available: 20 out of 100)

Present evidence of visual analysis of photography or movie sequences where the water or ground surface is effected by objects placed on or above.

2. Knowledge and Understanding Skills

At level 7, you should be able to demonstrate a systematic understanding of knowledge, and a critical awareness of current problems and/or new insights, much of which is at, or informed by, the forefront of your academic discipline, field of study or area of professional practice, with a comprehensive understanding of techniques applicable to your own research or advanced scholarship. Your work must demonstrate your growing mastery of these concepts, principles, current challenges, innovation and insights associated with the subject area. *Knowledge* relates to the facts, information and skills you have acquired through your learning. You demonstrate your *understanding* by interpreting the meaning of the facts and information (knowledge). This means that you need to select and include in your work the contemporary concepts, techniques, models, theories, etc. appropriate to the task(s) set. You should be able to explain the theories, concepts, etc. meaningfully to show your understanding. Your mark/grade will also depend upon the *extent* to which you demonstrate your knowledge and understanding; ideally each should be complete and detailed, with comprehensive coverage.

Guidance specific to this assessment: (Marks Available: 20 out of 100)

Demonstrate competent use of layers and passes how they contribute to the compositing process
The use of post-production translations / scaling's to simulate motion camera work.
Demonstrate competent use of a compositing package for the final composite, considering the screen content and compositional balance.

3. Cognitive and Intellectual Skills

You should be able to: evaluate critically current research and advanced scholarship in the discipline; evaluate methodologies and develop critiques of them and, where appropriate, to propose new hypotheses; deal with complex issues both systematically and creatively to make sound judgements in the absence of complete data. Your work must contain evidence of logical, analytical thinking, evaluation and synthesis. For example, to examine and break information down into parts, make inferences, compile, compare and contrast information. This means not just

describing what! But also justifying: Why? How? When? Who? Where? At what cost? At all times, you must provide justification for your arguments and judgements. Evidence that you have reflected upon the ideas of experts within the subject area is crucial to you providing a reasoned and informed debate within your work. Your choice of methodologies to gather data and information must be rigorously defended. Furthermore, you should provide evidence that you are able to make sound judgements and convincing arguments using data and concepts. Sound, valid, persuasive conclusions are necessary and must be derived from the content of your work. Where relevant, alternative solutions and recommendations may be proposed.

Guidance specific to this assessment: (Marks Available: 20 out of 100)
Demonstrate how post production corrects, enhances and complements poor or substandard dependencies

4. Practical Skills
At level 7, you should be able to demonstrate originality in the application of knowledge, together with a practical understanding of how established techniques of research and enquiry are used to create and interpret knowledge in the discipline. This includes acting autonomously in planning and implementing tasks at a professional or equivalent level, originality in tackling and solving problems, and decision-making in complex and unpredictable contexts or situations.

You should be able to demonstrate mastery of the leading edge subject-related concepts and ideas as they relate to real world situations and/or particular contexts. How do they work in practice? You will deploy models, methods, techniques, and/or theories, in those contexts or circumstances, to assess current situations, perhaps to formulate plans or plausible, justifiable recommendations to solve problems, or to propose new models, or to create artefacts, which may be innovative and creative, thereby demonstrating your understanding of how the boundaries of knowledge are advanced through research and/or application. This is likely to involve, for instance, the use of real world artefacts, examples and cases, the application of a model within an organisation and/or benchmarking one theory or organisation against others.

Guidance specific to this assessment: (Marks Available: 20 out of 100)
Demonstrate an understanding of how to generate and manage rendering layers and passes.

5. Transferable Skills for Life and Professional Practice
Your work must provide evidence of the qualities and transferable skills necessary for postgraduate-level employment in circumstances requiring sound judgement, personal responsibility and initiative in complex and unpredictable professional environments. This includes demonstrating: the independent learning ability for continuing professional development to advance existing skills and acquire new competences of a professional nature that will enable you to assume significant responsibility within organisations; that you can initiate and complete tasks, projects and procedures, whether individually and/or collaboratively, to a professional level; that you can use appropriate media to effectively communicate information, arguments and analysis in a variety of forms for a variety of audiences; fluency of expression; clarity and effectiveness in presentation and organisation. Work should be coherent and well-structured in presentation and organisation.

Guidance specific to this assessment: (Marks Available: 20 out of 100)
Presenting a correctly formatted and properly slated series of sequences to staff and colleagues at assessment time.

GENERIC ASSESSMENT CRITERIA

Level 7

In accordance with the Framework for Higher Education Qualifications, at the end of Level 7 students should be able to demonstrate: a systematic understanding of knowledge, and a critical awareness of current problems and/or new insights, much of which is at, or informed by, the forefront of their academic discipline or area of professional practice; a comprehensive understanding of techniques applicable to their own research or advanced scholarship; originality in the application of knowledge, together with a practical understanding of how established techniques of research and enquiry are used to create and interpret knowledge in the discipline; conceptual understanding that enables the student to evaluate critically current research and advanced scholarship in the discipline to evaluate methodologies and develop critiques of them and, where appropriate, to propose new hypotheses. They will be able to deal with complex issues both systematically and creatively, make sound judgements in the absence of complete data, and communicate their conclusions clearly to specialist and non-specialist audiences. They will demonstrate self-direction and originality in tackling and solving problems, and act autonomously in planning and implementing tasks at a professional or equivalent level to continue to advance their knowledge and understanding, and to develop new skills to a high level. They the qualities and transferable skills necessary for employment requiring the exercise of initiative and personal responsibility; decision-making in complex and unpredictable situations/professional environments; and the independent learning ability required for continuing professional development.

Level 7	**FAIL**	**FAIL**	**MARGINAL FAIL**	**SATISFACTORY (Pass)**	**GOOD to VERY GOOD (Merit)**	**EXCELLENT (Distinction)**	**EXCEPTIONAL (Distinction)**
Category	**0-29%**	**30-44%**	**45-49%**	**50-59%**	**60-69%**	**70-84%**	**85-100%**
Engagement with literature (including current research, referencing, academic conventions and academic honesty)	Little or no evidence of reading and/or reliance on inappropriate sources. Views and findings mostly unsupported and non-authoritative. Referencing conventions used incoherently or largely absent.	Poor engagement with essential reading. No evidence of wider reading. Reliance on inappropriate sources, and/or indiscriminate use of sources. Heavily reliant on information gained through class contact. Inconsistent	Engagement with a very limited range of relevant and credible sources. Some omissions and minor errors. Referencing conventions evident though not always applied accurately or consistently.	Engagement with an appropriate range of research-informed literature, including sources retrieved independently. Some over-reliance on texts. Referencing may show	Engagement with a wide range of research-informed literature, including sources retrieved independently. Selection of relevant and credible sources. Very good use of referencing,	Engagement with an extensive range of relevant and credible literature, informed by the latest research. Consistently accurate application of referencing.	Exceptional engagement with an extensive range of relevant and credible literature, informed by the latest research. High-level referencing skills consistently and

Level 7	FAIL	FAIL	MARGINAL FAIL	SATISFACTORY (Pass)	GOOD to VERY GOOD (Merit)	EXCELLENT (Distinction)	EXCEPTIONAL (Distinction)
Category	**0-29%**	**30-44%**	**45-49%**	**50-59%**	**60-69%**	**70-84%**	**85-100%**
		and weak use of referencing.		minor inaccuracies or inconsistencies.	with no/very few inaccuracies or inconsistencies.		professionally applied.
Knowledge and understanding (A systematic, conceptual understanding of knowledge, and a critical awareness of current problems and/or new insights, much of which is at, or informed by, the forefront of the discipline; a comprehensive understanding of techniques applicable to their own research)	Major gaps in knowledge and understanding of the subject matter is not systematic. Substantial inaccuracies. No awareness of current problems, insights or the latest research and/or advanced scholarship within the discipline.	Gaps in knowledge, with only superficial systematic understanding. Some significant inaccuracies and/or irrelevant material. No critical awareness of current problems, insights, or latest research within the discipline.	Limited knowledge and systematic understanding of the concepts and principles within the subject area, which to some marginal extent, is informed by current research and scholarship. Some critical awareness of current problems and/or new insights, but often under-developed.	Knowledge is accurate and reasonably detailed. A systematic understanding of the field of study informed by, to some extent, current research and scholarship, A critical awareness of current problems and/or new insights though this may be under-developed occasionally.	Knowledge has a well-defined focus, which is reasonably extensive, coherent and detailed, with a critical awareness of current problems and/or new insights. Exhibits good understanding of the breadth and depth of contemporary and established views, and the work is, at least in part, well-informed by current research and scholarship.	Excellent mastery of a complex and specialised area of knowledge. A systematic, excellent understanding of the concepts of the subject informed by current research and scholarship. Highly critical awareness of current problems and/or new insights. A critical, awareness of how the boundaries of knowledge are advanced through research.	Exceptional mastery of a complex and specialised area of knowledge. An exceptionally critical awareness of current problems and/or new insights. An outstanding understanding of the concepts of the subject, well-informed by current research and scholarship. A critical, sophisticated and nuanced awareness of how the boundaries of knowledge are advanced through research.

Level 7	FAIL	FAIL	MARGINAL FAIL	SATISFACTORY (Pass)	GOOD to VERY GOOD (Merit)	EXCELLENT (Distinction)	EXCEPTIONAL (Distinction)
Category	**0-29%**	**30-44%**	**45-49%**	**50-59%**	**60-69%**	**70-84%**	**85-100%**
Cognitive and intellectual skills (Critical evaluation of current research and methodologies and develop critiques of them and, where appropriate, to propose new hypotheses; make sound judgements in the absence of complete data.)	Wholly or almost wholly descriptive work. Little or no evaluation or critique or attempt at a systematic approach. Failure to develop arguments, leading to illogical or invalid judgements. Unsubstantiated generalisations, made without use of credible evidence.	Largely descriptive work, with superficial use of critical evaluation of research and methodologies. Absent or weak development of hypotheses and judgements. Information accepted uncritically, uses generalised statements made with scant evidence and unsubstantiated opinions. Ideas sometimes illogical and contradictory.	Limited attempt at critical evaluation/ critique of current research and methodologies, tending towards description. Limited attempt to propose new hypotheses. Can deal with complex issues but not systematically or creatively. Some evidence to support emerging judgements but these may be underdeveloped or with a little inconsistency / mis-interpretation. May assert rather than argue a case.	Some critical evaluation/ critique of current research and methodologies, though slightly underdeveloped in places, Proposes adequate but limited new hypotheses, where relevant. Can deal with complex issues but not fully systematically or creatively. Ability to make judgements based on data (that may be incomplete) but with some tendency to assert/state opinion rather than argue on the basis of reason and evidence.	Sound critical evaluation/ critique of current research and methodologies, Proposes new hypotheses, where appropriate. Can deal with complex issues systematically and with some creativity. Ability to make sound judgements based on data (that may be incomplete)	Excellent critical evaluation/ critique of current research and methodologies, Proposes innovative hypotheses, where appropriate. Can synthesise complex issues systematically and creatively. Ability to investigate contradictory or incomplete information and make strong, persuasive, arguments and sophisticated judgements.	Exceptional critical evaluation/ critique of current research and methodologies, Proposes innovative hypotheses, where appropriate. Exemplary systematic and creative synthesis of complex issues. Ability to investigate contradictory or incomplete information and make strong, persuasive, arguments and sophisticated, nuanced, judgements. Potential for journal publication or doctoral research.

Level 7	FAIL	FAIL	MARGINAL FAIL	SATISFACTORY (Pass)	GOOD to VERY GOOD (Merit)	EXCELLENT (Distinction)	EXCEPTIONAL (Distinction)
Category	**0-29%**	**30-44%**	**45-49%**	**50-59%**	**60-69%**	**70-84%**	**85-100%**
Practical skills (Originality / creativity in the application of knowledge, tools and techniques and in tackling and solving problems in complex and unpredictable professional situations; practical use of established techniques of research and enquiry to create and interpret knowledge in the discipline.)	Limited or no use of methods, materials, tools and/or techniques. Little or no appreciation of the context of the application. Limited understanding of the application of theory to practice or making appropriate links between the two. Very weak problem-solving skills in complex and unpredictable contexts.	Rudimentary application of methods, materials, tools and/or techniques but without consideration and competence. Flawed appreciation of the context of the application. Weak understanding of the application of theory to practice, with only occasional evidence of making appropriate links between the two. Weak problem-solving skills in complex and unpredictable contexts.	An awareness and mostly appropriate application of well-established methods, materials, tools and/or techniques, with occasional errors. Basic appreciation of the context of the application. Theoretical knowledge and understanding applied in practice, but not always making logical links between the two. Can identify problems and propose basic solutions without fully appreciating the complexity of	An appropriate application of standard methods, materials, tools and/or techniques. Clear appreciation of the context of the application. Mainly consistent, accurate and logical application of theory to practice, making appropriate links between the two. Can identify problems and propose mostly appropriate solutions in complex and unpredictable contexts, with elements of originality.	A very good application of a range of methods, materials, tools and/or techniques. Very good consideration of the context of the application, with perceptive insights. Can identify problems and propose appropriate solutions in complex and unpredictable contexts. Evidence of originality and creativity.	An advanced application of knowledge, methods, materials, tools and/or techniques. The context of the application is well considered, and insightful. Can identify complex problems and propose excellent solutions. An excellent grasp of techniques applicable to own research or advanced scholarship. Shows originality in application of knowledge and techniques, and of how established techniques of enquiry create and interpret knowledge in the discipline.	Exceptional application skills in complex, unpredictable, contexts, drawing skilfully on the latest research within the discipline. Can identify complex problems and propose sophisticated, original solutions. An outstanding application of techniques applicable to own research or advanced scholarship. Shows originality in application of knowledge and techniques, and of how established techniques of enquiry create and interpret knowledge in the discipline

Level 7	FAIL	FAIL	MARGINAL FAIL	SATISFACTORY (Pass)	GOOD to VERY GOOD (Merit)	EXCELLENT (Distinction)	EXCEPTIONAL (Distinction)
Category	**0-29%**	**30-44%**	**45-49%**	**50-59%**	**60-69%**	**70-84%**	**85-100%**
			unpredictable contexts.				with assimilation and development of cutting edge processes and techniques.
Transferable skills for life and professional practice (Exercise of self-direction, autonomy and personal responsibility; plan and implement tasks at a professional level; independent learning; use appropriate media to communicate effectively and professionally to a variety of audiences; fluency of expression; systematic approach; clarity and effectiveness in presentation and organisation.)	Communication medium is inappropriate or misapplied. Work is poorly structured, disorganised and/or confusingly expressed. Very weak use of language and/or very inappropriate style. Little or no evidence of autonomy (or collaboration, where relevant) in the completion of tasks. Little or no evidence of the skills required in professional, postgraduate employment.	Communication medium is poorly designed and/or not suitable for the audience. Work is poorly presented in a disjointed manner. It is loosely, and at times incoherently, structured, with information and ideas often poorly expressed. Weak use of language and/or inappropriate style. Weak independent initiative (or collaboration, if relevant). Limited evidence of	Can communicate in a suitable medium but with some room for improvement. Mostly ordered presentation and structure in which relevant ideas / concepts are reasonably expressed. Work may lack coherence in places. Can work as part of a team, but with limited involvement in group activities. Demonstrates some but not all of the basic skills required in professional, postgraduate	Can communicate effectively in a suitable format, but may have minor errors. Mostly coherent, organised work, in a suitable structure and is for the most part clearly expressed. Can work effectively independently and/or as part of a team, with clear contribution to group activities. Demonstrates the skills required in professional, postgraduate employment,	Can communicate well, confidently and consistently in a suitable format. Work is coherent, fluent, well-structured and organised. Can work very well autonomously and/or as part of a team, with a good contribution to group activities. Demonstrates comprehensive professional, postgraduate employment skills.	Can communicate professionally confidently and consistently in a suitable format. Work is coherent, very fluent and is presented professionally. Can work autonomously with initiative. Where relevant can work professionally within a team, showing leadership skills as appropriate, managing conflict and meeting obligations. Demonstrates excellent professional,	Can communicate with an exceptionally high level of professionalism. Work is remarkably coherent, very fluent and is presented professionally. Can work outstandingly well and professionally within a team, showing advanced leadership skills. Demonstrates exemplary professional, postgraduate employment skills and a strong appetite for further development.

Level 7	FAIL	FAIL	MARGINAL FAIL	SATISFACTORY (Pass)	GOOD to VERY GOOD (Merit)	EXCELLENT (Distinction)	EXCEPTIONAL (Distinction)
Category	**0-29%**	**30-44%**	**45-49%**	**50-59%**	**60-69%**	**70-84%**	**85-100%**
		the skills required in professional, postgraduate employment.	employment, with some areas of minor weakness.	with some areas of strength and some of minor weakness.		postgraduate employment skills and a strong appetite for further development.	

THIS DOCUMENT IS ALSO AVAILABLE IN WELSH