Appendix 1: Marking criteria

Posters: assessment criteria

Class	%	Criteria
1 st	100	Poster does a masterful job of communicating the most important scientific information. It presents the
	95	information in an eye-catching and visually attractive way. The material is laid out cleanly, logically and accessibly. Images (where present) are of high quality. Presentation is concise and flawless. The content of the poster has been superbly researched and correctly referenced. The presenter(s) of the poster showed command of the relevant concepts and facts when explaining the poster and/or answering questions.
	90	
	85	Excellent poster, meeting all the criteria for a mark of 68 and most but not all of the criteria for a mark of 90+.
	80	
	76	Excellent poster, meeting all the criteria for a mark of 68 as well as one or a few of the criteria for a mark of 96
	72	
2A	68	Very good poster that is attractive and laid out in a largely logical fashion, very effectively communicating the
	65	 significance of a body of scientific information. Posters in this range would generally be expected to show: appropriate background reading, some critical, analytical or synthetic treatment of the information, no evidence of significant errors of understanding in the poster or when answering questions, material presente concisely, and appropriate use of sources.
	62	
	62	
2B	58	Good poster conveying information adequately, but marred by omissions or errors, or is laid out in a way that
	55	significantly detracts from the content of the poster (e.g. misplaced emphasis). Nonetheless, the poster and/or presenter(s) demonstrate understanding of most of the relevant expected material .
	52	presenter(s) demonstrate understanding of most of the relevant expected material.
3 rd	48	Acceptable poster. Marred by major errors, brevity, irrelevance or poor design (as laid out below); however, the poster and/or its presenter(s) demonstrate understanding of at least a third of the expected relevant material.
	45	
	42	
Fail	38	Poster demonstrates understanding of less than a third of the expected relevant material, and is marred by
	35	major errors, brevity, or inappropriate design. The presenter(s) did not answer questions well enough to convincingly demonstrate adequate knowledge and understanding.
	30	
	25	Poster demonstrates understanding of less than a quarter of the expected relevant material, whether through
	20	omission of material, poor execution (e.g., unlabelled figures) or errors. Typically the poster will show many of th following failings: inadequate graphics, illegibility, overcrowding, large gaps, missing abstract/summary, lack of attention to detail, lack of material.
	15	Poster is so poor as to indicate its presenter(s) did not understand what a poster is supposed to achieve. Conveys
	10	much less than a quarter of the expected relevant material.
	5	
	0	Poster not produced.
		i osternot produced.

Analytical = breaking a concept down into its parts and examining their inter-relationships, e.g. comparing and contrasting two models. **Critical** = judging a hypothesis or conclusion by examining the validity of the evidence presented for it, e.g. evaluating two competing models. **Synthetic** = integrating concepts from several sources. e.g. discussing relevant outside reading, or combining material across several lectures or courses into a coherent or original whole. **Comprehension** = understanding of the meaning of information, e.g. explaining how one concept follows logically from another. **Application** = use of knowledge outside of the situation in which it was learnt, e.g. applying a model to a novel situation, or carrying out an appropriate manipulation of a data set.

IMPERIAL 79

Presentations: assessment criteria

100	Presentation does a masterful job of communicating a substantial body of scientific information concisely and
95	flawlessly. The presenter held the audience's attention, showed complete command of the relevant concepts and facts, spoke authoritatively, showed evidence of substantial outside reading (where appropriate),
90	provided a consistently analytical, critical and/or synthetic treatment of the information (where relevant), gave superb answers to questions , and showed fluency in the use of any teaching aids (PowerPoint,
	demonstrations, handouts, PRS clickers, <i>etc</i>). Any visual aids were conference-level .
85	Presentation does an excellent job of communicating a substantial body of scientific information. It meets all criteria for a mark of 68, as well as meeting most but not all of the criteria for a mark of 90+ .
80	ontona for a mark of 50, as well as meeting most but not all of the criteria for a mark of 50.
76	Presentation does an excellent job of communicating a substantial body of scientific information. It meets all the criteria for a mark of 68 as well as meeting one or a few of the qualities of a 90+ presentation .
72	- Checke for a mark of oo as well as meeting one of a few of the qualities of a oo - presentation.
68	Very good presentation effectively communicating a significant body of scientific information, being a logically-structured exposition enabling the audience to appreciate the significance of the material presented.
65	Presentations in this range would generally be expected to show the following characteristics: appropriate
62	background reading, good critical, analytical or synthetic treatment of the information, no evidence of
02	significant errors of understanding during the talk or in answers to questions, used resources well, spoke
	without detailed notes, little or no hesitation, kept more or less to time, appropriately paced (neither too
	fast nor too slow). Material is presented concisely and with appropriate use of sources.
58	Good presentation successfully communicating a significant body of scientific information. It is a largely accurate
55	account of most of the expected relevant material, showing evidence of some background reading and adequate preparation, but is marred by several of the following: confused sections, poor use of resources, over-
52	run, omissions, errors, hesitation, irrelevance (<i>e.g.</i> slides that do not add value), over-reliance on non-primary sources, by reading from notes.
48	Acceptable presentation achieving only limited communication of scientific information and with major errors or omissions. Presenter delivers a mainly accurate account of at least a third of the expected relevant material ,
45	showing a generally weak understanding and evidence of little background reading or preparation.
42	
38	Presentation fails to communicate any significant scientific information. Presenter demonstrates understanding
35	of less than a third of the expected relevant material (either through errors, through lack of preparation, or by omission).
30	
25	Presentation fails to communicate scientific information and is on balance misleading. It shows understanding of
20	less than a quarter of the expected relevant material, but is so inaccurate and/or irrelevant that it succeeds only in misinforming and confusing the audience.
15	Presentation includes very little that is correct and relevant.
10	
5	
0	Presentation not given.
	85 80 76 72 68 65 62 55 52 48 45 42 38 35 30 25 20 15 10

Supplementary material includes **outside reading** and material from other courses. For first- and second-year students, textbooks are an acceptable source of outside reading; for final-year students, outside reading should normally come from journal articles or other peer-reviewed publications. **Analytical** = breaking a concept down into its parts and examining their inter-relationships, e.g. comparing and contrasting two models. **Critical** = judging a hypothesis or conclusion by examining the validity of the evidence presented for it, e.g. evaluating two competing models. **Synthetic** = integrating concepts from several sources. e.g. discussing relevant outside reading, or combining material across several lectures or courses into a coherent or original whole. **Comprehension** = understanding of the meaning of information, e.g. explaining how one concept follows logically from another. **Application** = use of knowledge outside of the situation in which it was learnt, e.g. applying a model to a novel situation, or carrying out an appropriate manipulation of a data set.

IMPERIAL 80

Research Project theses: assessment criteria

Class	%	Criteria
1st	100	Exceptional. Work is of a publishable standard**. It is an exceptionally well-presented exposition of the subject showing: (i) command of the relevant concepts and facts, (ii) a high critical or analytical ability***, (iii) originality is thought, approach and/or and experimental or modelling design, and (iv) mastery of the relevant literature.
	95	
	90	
	85	
	80	Excellent . Thesis is written to a publishable standard** with minor revision. It is a very well presented exposition of the project, showing most of the above features, but falling short in one of them.
	76	
	72	
Merit	68	Very Good to Good. Thesis contains potentially publishable material**, but needs revision of the text and further research. It is otherwise a well presented exposition of the project, showing: (i) a clear grasp of the relevant concepts and facts, (ii) appropriate, though not highly sophisticated analysis or evaluation, and (iii) a sound knowledge of the relevant literature.
	65	
	62	
Pass	58	Adequate. Thesis is not written to a publishable standard and requires major revision and substantially more
	55	research. It is an adequately presented exposition of the project, showing: (i) a grasp of the basic concepts and facts, (ii) an adequate use of statistics in its analyses and/or approaches of evaluation, and (iii) sufficient knowled of the relevant literature to set its results in a scientific context.
	52	
Fail	48	Unsatisfactory. Thesis is an incomplete presentation of the project and is marred by major errors or gaps, miss analysis, lack of references, misconceptions, or excessive brevity, at most showing a weak grasp of the basic concepts and facts.
	45	
	42	
	38	Thesis as above, but presentation extremely poor and overall impression indicates a very weak grasp of the basic concepts and facts.
	35	
	30	
	25	
	20	Thesis as above, and in addition no real attempt to analyse data or present results in a scientific manner.
	15	
	10	
	5	Thesis as above but incomplete and lacking understanding in all areas.
	0	Thesis contains nothing relevant or was not submitted.

^{**} This publishability assumes that the data or theory is per se worth publishing. *** **Analytical** = assessing a hypothesis or statement by breaking it down into its elements and examining their inter-relationships and contribution to the whole with quantitative methods where possible or necessary; cf. **Critical** = judging a hypothesis or conclusion by examining the validity of the evidence adduced for it.

IMPERIAL 81