

## CMS: Exam Questions

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### 1.0 Overview

The CMS: Exam Questions module is used to:

- ★ specify the questions that appear on exam papers so that marks can be recorded in the database for each question.
- ★ Record candidates who were absent from the exam
- ★ Record marks for each question (either by question or by candidate)
- ★ Produce a total mark for the exam paper (conflation)
- ★ Print a report to check mark entry
- ★ Confirm that marks entry has been checked
- ★ Send the total mark for the paper to the Exams System to be combined with other sub assessment marks and to be output in reports for the Examination Boards

The system does not model the pattern of mandatory and optional questions explicitly. It does not do so because the number of variations of how the marks should be added up for such schemes is immense and to model these would introduce too much complexity to the system. Instead the maximum possible marks for questions that have a mark input for a candidate are checked against the maximum possible mark for the paper to ensure that marks are not entered for too many or too few questions. The system allows marks to be recorded for information only (i.e. marks where a candidate has answered too many questions) by excluding them from the conflation process that generates the total marks for the paper.

There are two methods in which marks can be recorded described as *minimal* and *detailed* in following pages. Following the minimal method will allow marks that contribute to the overall marks for the paper to be recorded, have statistical reports run against them and provide all the necessary information to produce overall marks for the paper. The detailed method provides the same as the minimal method but also gives the ability to store marks that do not contribute to the overall marks for the paper but which may be of statistical interest.

## 2.0 Select Course

- ★ From the main database menu click on **CMS: Exam Questions**
  - NB administrators click on **CMS: Exam Questions (Admin)**
  - If you are an administrator you will see a screen where you can enter a course code and click **Find** to go directly to a course. If you are unsure of course codes you may use the **Get Convenor List** button select the name of a convenor, then click **Find** to retrieve the courses for which they are responsible

Sussex Administrative Systems

Tasks Edit Window Help

SSTU0121 CMS: Exam Questions Colin Clark Database: TRAINING Started 05-APR-2004 11:48

Year: 03/04 Course Code:  **Get Convenor List** **Find**

Course Assessment Convenor: **All Convenors**

- All Convenors
- Ali, Dr FH
- Antunes, Dr NAR
- Armstrong, Dr JI
- Atherton, Prof DP
- Barton, Prof G
- Bates, Dr BC
- Beebee, Prof TJC

**Exit**

Select Assessment Convenor

Record: 1/1 ... <OSC>

## Integrated Exams System – CMS Exam Questions

- If you are a course assessment convenor you will see a list of the courses for which you are responsible on the left side of the screen.
- Click on the [blue](#) course title to select the course you wish to work with

The screenshot shows a software window titled "Sussex Administrative Systems" with a menu bar (Tasks, Edit, Window, Help) and a status bar (SSTU0121 CMS: Exam Questions Colin Clark Database: TRAINING Started 05-APR-2004 11:48). The main area is divided into two panes. The left pane, titled "Courses", contains a "Year:" dropdown menu set to "03/04" and a list of course titles: "Electromagnetic Waves: F3067 - UEX" (highlighted in blue), "Introduction to Modern Physics: F3135 - UEX", "Physical Optics: F3014 - UEX", and "Theoretical Physics I: F3101 - UEX". The right pane, titled "F3067 Electromagnetic Waves (Autumn Major)", displays a "Status:" message: "Press Set Up button to create Exam Questions". Below this is a table header with columns: "Question Number", "No of Marks", "Comments", and "Marks Entered". At the bottom of the main area are four buttons: "Back", "Exit", "Marks Overview", and "Question Set Up". The status bar at the very bottom shows "Record: 1/4" and a "<OSC>" button.





## Integrated Exams System – CMS Exam Questions

- ★ When you have finished setting up the questions click the **Back** button to return to the main screen. This now displays a summary of the questions that you have just set up. The **Marks Overview** button is now enabled.

The screenshot shows a software window titled "Sussex Administrative Systems" with a menu bar (Tasks, Edit, Window, Help) and a status bar (SSTU0121 CMS: Exam Questions Colin Clark Database: TRAINING Started 05-APR-2004 11:48). The main area is divided into two panes. The left pane, titled "Courses", contains a "Year:" dropdown menu set to "03/04" and a list of courses: "Electromagnetic Waves: F3067 - UEX", "Introduction to Modern Physics: F3135 - UEX", "Physical Optics: F3014 - UEX", and "Theoretical Physics I: F3101 - UEX". The right pane, titled "F3067 Electromagnetic Waves (Autumn Major)", shows a "Status: Not Conflated" and a table of questions. The table has columns for "Question Number", "No of Marks", "Comments", and "Marks Entered". The data rows are: Question 1 (20.00 marks, 0 of 47 entered), Question 2 (20.00 marks, 0 of 47 entered), and Question 3 (20.00 marks, 0 of 47 entered). At the bottom of the main area are four buttons: "Back", "Exit", "Marks Overview", and "Question Set Up". The status bar at the very bottom shows "Record: 1/3" and "<OSC>".

Question Number	No of Marks	Comments	Marks Entered
1	20.00		0 of 47
2	20.00		0 of 47
3	20.00		0 of 47

## 4.0 Record Marks

★ Click the **Marks Overview** button. The following screen will be displayed:

**Sussex Administrative Systems**

Tasks Edit Window Help

SSTU0121 - CMS Exam Questions/College/College Database/TRAINING - Started 05 APR 2004 12:25

**Exam Paper Overview**

**F3067 Electromagnetic Waves (Autumn Major)**

**Unseen Examination 70%** Exam Mark records: 47

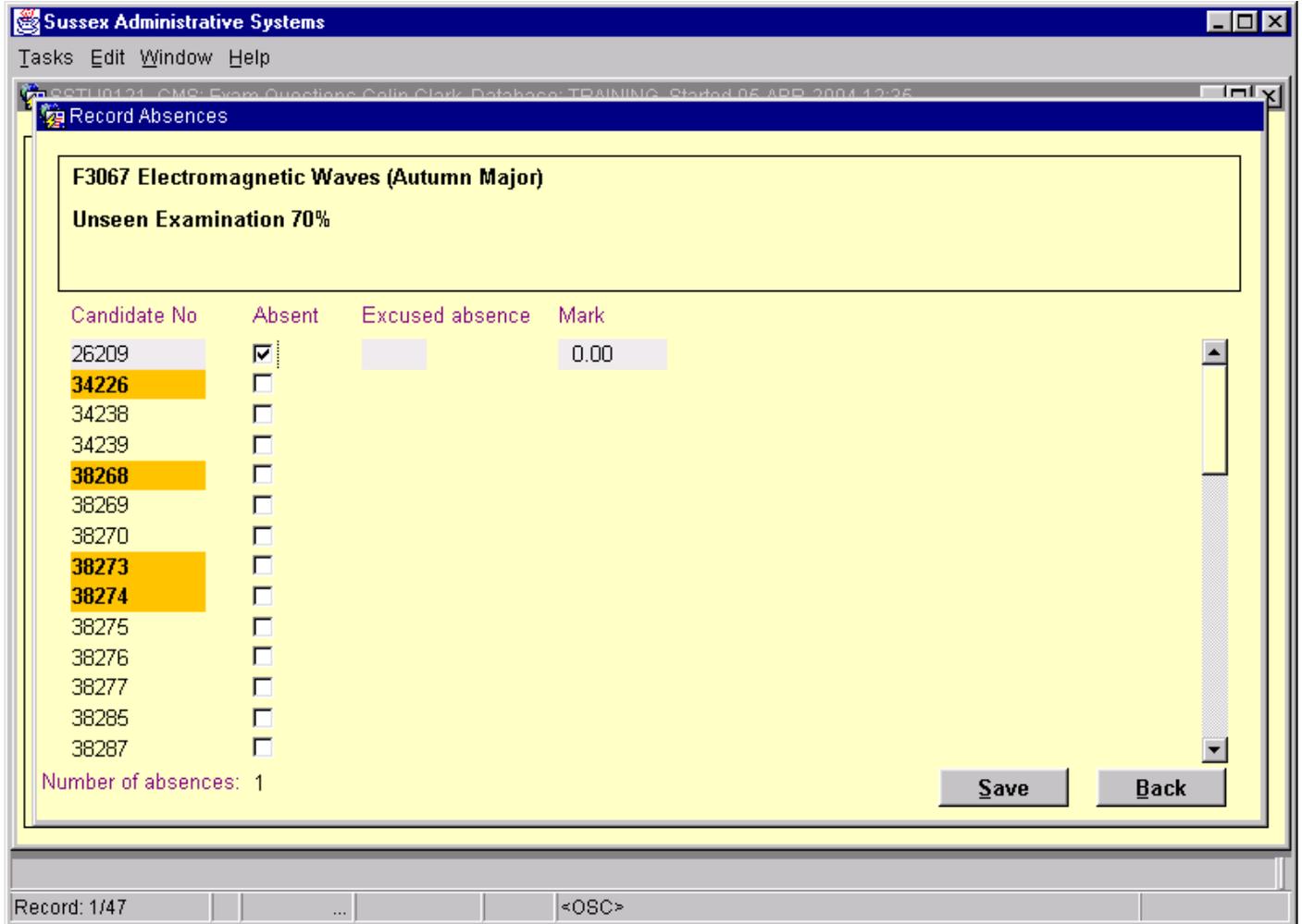
**Total Marks for Paper: 40** Recorded absences: 0

Question Number	No of Marks	Comments	Recorded	Excluded	Conflated	Transferred
1	20.00		0	0	0	0
2	20.00		0	0	0	0
3	20.00		0	0	0	0

Record: 1/3      ...      <OSC>

### 4.1 Absences

- ★ You should record absences before you start to enter marks. Doing so will remove the candidates marked as absent from the lists where marks are entered, give them a zero overall mark for the paper and an AB (absent) circumstance.
- ★ To record an absence click the **Record Absences** button. Tick the box next to the candidate(s) you wish to record as absent. When you have recorded all absences click **Save** and then click **Back** to return to previous screen.
  - You cannot record absences for candidates who have marks recorded. If you have recorded marks for an absent candidate by mistake first delete the marks (best done by using Enter Marks by Candidate and selecting the absent candidate) then go back to record the absence.



## 4.2 Enter Marks by Question

- ★ If you wish to enter the marks for each question in turn click the **Enter Marks by Question** button

**Sussex Administrative Systems**  
Tasks Edit Window Help

SSTU0121 - CMS Exam Questions - Colin Clark Database - TRAINING - Started 05 APR 2004 12:25

**Record Marks**

**F3067 Electromagnetic Waves (Autumn Major)** Marks - recorded: 0  
**Unseen Examination 70%** not recorded: 46  
**Total Marks for Paper: 40** Not Conflated

Question	Candidate No	Mark	Exclude	Comments
Select Question Q 1 (20 marks)	34226		<input type="checkbox"/>	
	34238		<input type="checkbox"/>	
	34239		<input type="checkbox"/>	
	38268		<input type="checkbox"/>	
	38269		<input type="checkbox"/>	
	38270		<input type="checkbox"/>	
	38273		<input type="checkbox"/>	
	38274		<input type="checkbox"/>	
	38275		<input type="checkbox"/>	
	38276		<input type="checkbox"/>	
	38277		<input type="checkbox"/>	
	38285		<input type="checkbox"/>	
	38287		<input type="checkbox"/>	
	38289		<input type="checkbox"/>	

Average Mark:

<< Previous Q      Next Q >>      Save      Back

Record: 1/46      ...      <OSC>

- ★ The first question will be displayed (the question with the lowest sequence number) with a list of candidate numbers.
- ★ Enter the mark for each candidate.
  - MINIMAL MARK RECORDING
    - Enter marks for all mandatory questions. If mandatory question not attempted or candidate has scored zero enter zero.
    - Enter marks that count towards total mark for optional questions, leave the mark field for the other questions in the option group blank. If no questions have been attempted from an option group you will have to enter a zero mark arbitrarily against one of the questions in the group.
  - DETAILED MARK RECORDING
    - If a candidate has attempted a mandatory question enter the mark in the mark field.
    - If a candidate has attempted a mandatory question and scored zero record zero in the mark field.
    - If a candidate has not attempted a mandatory question record a zero in the mark field. If you wish to distinguish 'candidate not attempted question' from 'candidate attempted question but got zero' enter \*B in the comments field for candidates who have not attempted the question
    - If a candidate has not attempted an optional question leave the mark field empty
    - If a candidate has attempted an optional question record the mark in the mark field.

- If a candidate has answered more questions than necessary record all the marks and tick the Exclude box adjacent to the marks that are not required to calculate the overall mark for the paper. This will result in the marks being stored but excluded marks will not be used when the total mark for the paper is calculated. BE CAREFUL WHICH MARKS YOU EXCLUDE.
- If no questions have been attempted from an option group you will have to enter a zero mark arbitrarily against one of the questions in the group. If you wish to be able to remove these cases from your statistics record \*B in the comments field next to the zero mark.
- Record a comment if you wish
- ★ When marks for all candidates have been entered click the **Next Q >>** button save your input and to move to the next question
- ★ Use the **<< Previous Q** button to go back if you wish. **<<Previous Q** and **Next Q>>** buttons are disabled when at the start and end of questions list respectively
- ★ To pick any question to record marks use the Select Question drop down list in the Question box
- ★ When all marks have been entered click **Save** and then **Back** to return to the Marks Overview screen

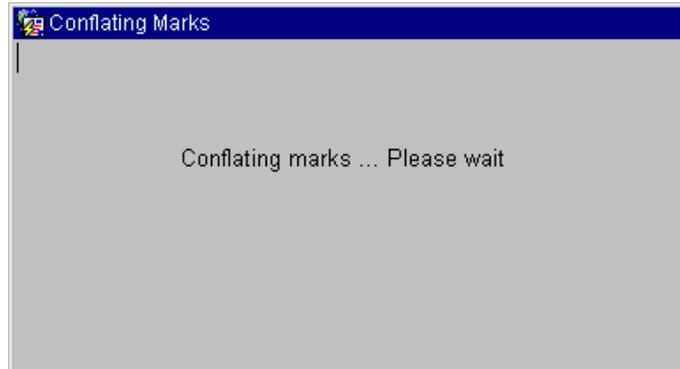


result in the marks being stored but excluded marks will not be used when the total mark for the paper is calculated. BE CAREFUL WHICH MARKS YOU EXCLUDE.

- If no questions have been attempted from an option group you will have to enter a zero mark arbitrarily against one of the questions in the group. If you wish to be able to remove these cases from your statistics record a \*B in the comments field next to the zero mark.
- Record a comment if you wish
- ★ When marks have been entered click the **Next Cand >>** button save your input and to move to the next candidate
- ★ Use the **<< Previous Cand** button to go back if you wish. **<<Previous Cand** and **Next Cand>>** buttons are disabled when at the start and end of the list of candidates respectively
- ★ To pick any candidate to record marks use the **Find** button in the Candidate box
- ★ When all marks have been entered click **Save** and then **Back** to retrun to the Marks Overview screen

## 5.0 Conflation

- ★ When all marks have been entered they need to be conflated to give an overall mark for the exam for each candidate.
- ★ Click the **Conflate** button on the Marks Overview screen, the following message will be displayed whilst conflation is in progress:



- ★ Followed by information about how many conflated marks have been produced:



- ★ The marks overview now gives a summary of what has been done:

Question Number	No of Marks	Comments	Recorded	Excluded	Conflated	Transferred
1	20.00		43	3	43	0
2	20.00		46	0	46	0
3	20.00		3	0	3	0

- ★ In the case above only 3 candidates answered Q3. 3 marks were excluded from Q1. 43 marks from Q1, 46 marks from Q2 and 3 marks from Q3 were used in the conflation
- ★ The number of exam mark records (the number of students entered for the exam) is given at the top right of the screen with the number of recorded absences below.

- ★ To view the results of the conflation click on the **View Conflation** button on the Marks Overview screen

**F3067 Electromagnetic Waves (Autumn Major)** Exam Mark records: 47

Total Marks for Paper: 40 Exam Paper marks: 46

Average Mark: 78 Transferred 05-APR-2004 15:31 by Colin Clark

<input type="radio"/> Student Name	<input checked="" type="radio"/> Cand No	Mark	Transferred to Exams?	Comments
	34226	95.00	05-APR-2004 15:31	
	34238	82.50	05-APR-2004 15:31	
	34239	95.00	05-APR-2004 15:31	
	38268	82.50	05-APR-2004 15:31	
	38269	47.50	05-APR-2004 15:31	
	38270	40.00	05-APR-2004 15:31	
	38273	95.00	05-APR-2004 15:31	
	38274	82.50	05-APR-2004 15:31	
	38275	57.50	05-APR-2004 15:31	
	38276	82.50	05-APR-2004 15:31	
	38277	82.50	05-APR-2004 15:31	
	38285	82.50	05-APR-2004 15:31	
	38287	82.50	05-APR-2004 15:31	
	38289	82.50	05-APR-2004 15:31	

**Back**

Record: 1/46      ...      <OSC>

- Note that the conflated mark is always a percentage mark – marks from other marking scales have to be converted to percentages to make them compatible with other sub assessment marks.

## 6.0 Confirmation

- ★ The input of marks should be checked by someone other than the person who entered the marks onto the system
- ★ A report that can be printed is provided to facilitate checking, click on the **Print Report** button to run the report.
  - note that in order for this to work your browser should still be pointing at [http://ntacs2.admin.susx.ac.uk/Web\\_html/acs\\_jinit.html](http://ntacs2.admin.susx.ac.uk/Web_html/acs_jinit.html)

**CMS: Exam Paper Marks Check Report**

**F3067: Electromagnetic Waves** **Assessment Mode: UEX**

Cand	Circ.	Ex Mk	Q1	Q2	Q3	Total
26209	AB					0.0
34226		95.0	15.0	18.0	20.0	38.0
34238		82.5	15.0	18.0		33.0
34239		95.0	1.0	18.0	20.0	38.0
38268		82.5	15.0	18.0		33.0
38269		47.5	1.0	18.0		19.0
38270		40.0	15.0	1.0		16.0
38273		95.0	15.0	18.0	20.0	38.0
38274		82.5	15.0	18.0		33.0
38275		57.5	5.0	18.0		23.0
38276		82.5	15.0	18.0		33.0
38277		82.5	15.0	18.0		33.0
38285		82.5	15.0	18.0		33.0
38287		82.5	15.0	18.0		33.0
38289		82.5	15.0	18.0		33.0
38290		82.5	15.0	18.0		33.0
38334		82.5	15.0	18.0		33.0
38352		82.5	15.0	18.0		33.0
38372		82.5	15.0	18.0		33.0
41276		82.5	15.0	18.0		33.0
41277		82.5	15.0	18.0		33.0
41278		82.5	15.0	18.0		33.0
41279		82.5	15.0	18.0		33.0

- ★ The report lists candidates vertically, shows candidates who have been marked as absent in the Circ. (circumstance) column, shows the overall % mark in Ex Mk, then the marks for each question are shown – questions that have been excluded have a shaded background, the final column is the total of marks that are not excluded (if the total for the paper is 100 this mark will be the same as Ex Mk)
- ★ The marks must then be confirmed by ticking the Marks Confirmed box, entering the name of the member of staff who has checked the input by clicking the **Find member of staff** button, typing in a surname, clicking the **Find** button then clicking on the required blue name from the list, and then entering the date of confirmation (double click in date field to access calendar tool, click ok/type enter immediately to get today's date)

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Tasks Edit Window Help

SSTU0121 CMS Exam Questions Colin Clark Database TRAINING Started 05 APR 2004 13:36

Find member of staff

Enter Surname: CLARK Find

Name	Details
<b>Anthea Clark</b>	SCITECH CENTRAL: CURRICULUM AND ASSESSMENT OFFICER
Colin Clark	SSO: REGISTRY IT DEVELOPMENT OFFICER
Katharine Clark	ENGINEERING: SECRETARY
Mark Clark	BUS SERV: COMMERCIALISATION MANAGER
Norman Clark	SPRU: HONORARY PROFESSOR
Tania Clark	GARDNER: FINANCE MGR
Terence Clark	ENGINEERING: PROFESSOR OF PHYSICAL ELECTRONICS
Barbara Clarke	SOCCUL CENTRAL: CLERICAL ASSISTANT
Brian Clarke	ESTOPS: PORTER
Daoud Clarke	SCITECH CENTRAL: GRADUATE ASSISTANT
Geoffrey Clarke	MATHEMATICS: EMERITUS READER IN MATHEMATICS
Jacqueline Clarke	SCITECH CENTRAL: SCHOOL ADMINISTRATIVE MANAGER

Cancel

Click once on a name to select a person

Record: 1/? <OSC>

Sussex Administrative Systems

Tasks Edit Window Help

SSTU0121 CMS Exam Questions Colin Clark Database TRAINING Started 05 APR 2004 13:36

Confirm Marks

**F3067 Electromagnetic Waves (Autumn Major)**

Unseen Examination 70% Exam Mark records: 47

Total Marks for Paper: 40 Recorded absences: 1

Before marks can be transferred to exams they must be checked by a member of staff who did not input these marks.

Marks confirmed

Confirmed By: Colin Clark Find member of staff

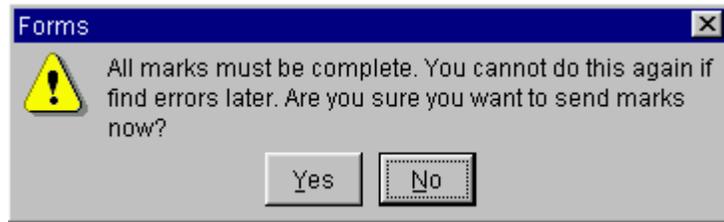
Date of confirmation: 05-APR-2004

Print Report Save Back

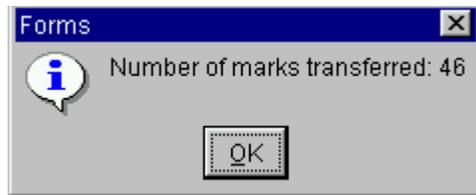
Record: 1/1 <OSC>

## 7.0 Send to Exams

- ★ When all marks have been input, conflated and confirmed they must be sent to the Exams System to be combined with other sub assessment marks if applicable and to get them to the part of the database that feeds the reports used by the Examination Boards
- ★ Click on the Send to Exams button, you will see a warning informing you that you cannot retrieve the marks once they have been sent into the Exams System



- ★ When the transfer is complete the system confirms the number of marks that have been sent



- ★ The marks overview will now show the number of marks transferred in the Transferred column. Note that the figure in the row for each question is a repetition of the total number of overall marks transferred to the exams system and doesn't strictly relate to the question.

Question Number	No of Marks	Comments	Recorded	Excluded	Conflated	Transferred
1	20.00		43	3	43	46
2	20.00		46	0	46	46
3	20.00		3	0	3	46

Buttons: Record Absences, Enter Marks by Question, Enter Marks by Candidate, Conflate, View Conflation, Confirm Marks, Send to Exams, View Exam Marks, Back

FRM-40200: Field is protected against update.  
Record: 1/3

## 8.0 View Exam Marks

- ☆ The View Exam Marks button gives you the opportunity to view the marks as they are held in the Exams System.
- ☆ You can select a single sub assessment to view the marks, or if marks for all sub assessments have been entered you can view the overall mark for the course

## 9.0 Problems

- ☆ If you realise after sending the marks to the Exams System that something is wrong with the marks please contact Colin Clark ([c.m.clark@sussex.ac.uk](mailto:c.m.clark@sussex.ac.uk)) in the first instance or Undergraduate Office Examinations section (contacts can be found at [http://www.sussex.ac.uk/Units/ugrad/ - contacts](http://www.sussex.ac.uk/Units/ugrad/-contacts))
- ☆ For training or assistance on using this CMS module please email [c.m.clark@sussex.ac.uk](mailto:c.m.clark@sussex.ac.uk)
- ☆ If you are unsure of how to go about something please ask rather than make assumptions
- ☆ If this part of CMS does not meet your requirements please email [c.m.clark@sussex.ac.uk](mailto:c.m.clark@sussex.ac.uk)

## 10.0 Appendices

### 10.1 Web Reports