



BSc(Eng) Regulations - Revised June 2017

BSc(Eng) Telecommunications Engineering with Management

BSc(Eng) E-Commerce Engineering with Law

BSc(Eng) Internet of Things Engineering

1. Introduction

- 1.1. These regulations apply to students enrolled on the programmes of study leading to the degrees of BSc(Eng) Telecommunications Engineering with Management, BSc(Eng) E-Commerce Engineering with Law, and BSc(Eng) Internet of Things Engineering. The programmes are offered jointly by Beijing University of Posts and Telecommunications [BUPT] and Queen Mary University of London [QMUL].
- 1.2. The general management of the programme of study, including responsibility for the admission of students, and the organisation of teaching, shall be the responsibility of the Academic Committee, established in accordance with the contract between BUPT and QMUL. The day-to-day management of the programme shall be the responsibility of the Programme Director.
- 1.3. The programme consists of two phases:
 - [a] Year 1 is equivalent to a Foundation Year in the United Kingdom;
 - [b] Years 2-4 are equivalent to Years 1-3 of a BEng degree in the United Kingdom

2. Definition of Terms

- 2.1. **Technical modules**: modules prescribed as constituting the core technical knowledge for that Programme (including transferable skills, Business, and Law).
- 2.2. Minor programme modules: technical modules taken from another programme to form an additional strand of study outside the core requirements of the degree. These modules do not count towards the QMUL degree but marks are recorded and used towards the BUPT degree.
- 2.3. **English Language modules**: modules teaching English.
- 2.4. **Chinese compulsory modules**: modules that are required by the Chinese Ministry of Education but do not form part of the UK degree.
- 2.5. **Optional modules**: modules that are not related directly to the programme, but are required for students to be awarded a BUPT degree (a minimum of ten Chinese credits (2011/12 and earlier cohorts), or six credits (2012/13 and later cohorts)).
- 2.6. **Engineering Environment modules**: modules that combine to form the Engineering Environment component of the UK Honours marks; these exclude technical modules.
- 2.7. **Project**: the independent technical project carried out in the final year. This is a technical module but is treated differently in the UK Honours calculation.
- 2.8. **Taught technical modules**: technical modules excluding the Project





- 2.9. **Credit**: a measure of load that is related to the contact hours in the Chinese system.
- 2.10. **Take**: the first attempt at a module.
- 2.11. **First take**: where a student may attempt the module again due to extenuating circumstances, including attending lectures and laboratories. Marks for first takes are not capped.
- 2.12. **Retake**: where a student fails to progress and must attempt the failed modules again, including attending lectures and attending laboratories where necessary. Marks for retakes are capped.
- 2.13. **Resit**: where a student may attempt the failed module again without attending lectures and laboratories again. Marks for resits are capped.
- 2.14. **Reattempt:** second and subsequent attempts at a module by either a resit or retake student.
- 2.15. **Coursework hurdle**: the requirement for students to obtain at least 30% (UK scale; 45% CN scale) in the overall mark for assessed coursework in order to pass the module.
- 2.16. **Jie Ye Zhengshu**: a certificate awarded by BUPT that allows a student to subsequently complete the degree.
- 2.17. Yi Ye Zhengshu: a certificate of incompletion awarded by BUPT.
- 2.18. **Cap on marks** (marks are capped): the module mark on retake/resit is "capped" at the minimum pass mark for the UK transcript and calculation of Honours; the Chinese retake/resit mark is shown separately and is not capped.
- 2.19. **Year:** study years on the JP are numbered 1-4 to follow Chinese practice; these correspond to years 0-3 at QMUL.

3. Admission

- 3.1. In order to be eligible for admission to Year 1 of the programme, a candidate shall have obtained the Chinese entry standard for key universities.
- 3.2. Any student who secures admission to the programme on the basis of qualifications, documents or statements that are subsequently found to be false shall have his/her registration terminated, and shall accordingly cease to be a student.

4. Programme of Study

- 4.1. The minimum period of study shall be four academic years. The period of study shall normally be continuous.
- 4.2. The maximum period of study is six years.
- 4.3. Periods of study shall include periods of interruption unless, exceptionally, the student is given permission by the Director of the Academic Affairs Office of BUPT to have the interruption excluded from the period of study.





- 4.4. Composition of the Programme of Study
 - [a] The programme of study will consist of a list of modules published by the Academic Committee and approved by the Chinese Ministry of Education.
 - [b] The list of modules will show the number of credits allocated to each module.

5. Enrolment and Attendance

- 5.1. Students are required to enrol at the beginning of their programme of study at both BUPT and QMUL, and to confirm their enrolment at the beginning of each subsequent academic year. Enrolment procedures include a student making satisfactory arrangements for the payment of his/her fees. A student who fails to make such arrangements, or who subsequently defaults on the payment of fees, shall be deregistered from the programme of study.
- 5.2. Students may not be absent during term-time without the agreement in advance of the Programme Director.
- 5.3. A student whose general attendance and/or submission of work is not considered satisfactory by the Programme Director may have his/her registration terminated.
- 5.4. Students may be required to undertake a medical examination, either as a condition of admission, or at any time during their studies. A student who has been absent as a result of a serious illness, or an infectious or contagious disease, may be required to produce a medical certificate before being permitted to resume study.

6. Assessment

- 6.1. The Programme Director (in consultation with the Academic Affairs Office of BUPT or with the Academic Registrar for students studying in London) may approve arrangements for a student who is ill or otherwise disabled to take his/her examination under special conditions.
- 6.2. Different marking scales are used by BUPT and QMUL. The marking scale used for assessment within a module, and for the overall module mark, is determined by the Academic Committee and is specified in the module descriptor. The relationship between the marks is:
 - [a] A pass mark at BUPT is 60% and for QMUL modules at all levels on the programme it is 40%.
 - [b] The mark showing distinction performance at BUPT is 85% and QMUL is 70%.
 - [c] Marks above the pass mark are mapped as $cn = ||\frac{-0.05uk^2 + 13uk + 100}{9}||$
 - [d] Marks below the pass mark are mapped as1: cn = ||1.5u||
 - [e] QMUL 99% is mapped to the BUPT scale as 99% rather than BUPT 100%.
 - [f] Irrespective of the scale being used, no mark can be greater than 100%, or less than 0%.

 $^{^{1}}$ Where cn is the mark on the BUPT scale and uk is the mark on the QMUL Scale.





- [g] The implementation of the mapping between scales is through a lookup table (Section 15) with marks specified as integers. A separate mapping table is used for each direction.
- [g] For 2016/17 and earlier cohorts Total coursework marks and examination marks are each rounded up to the nearest integer out of 100; when combining to give the total module mark the result is rounded to the nearest integer.

For 2017/18 and later cohorts

Total coursework marks and examination marks are each rounded to the nearest integer out of 100; when combining to give the total module mark the result is rounded to the nearest integer.

- 6.3. Where a resit student has failed a module, s/he can reattempt only the parts that have been failed (synoptic reassessment may be used in some cases). Students shall not be permitted to reattempt passed elements of assessment.
 - [a] The overall module mark attainable for any reattempt shall be capped at the minimum pass mark [2.18].
 - [b] Regardless of whether a student re-attempts all components or parts (e.g. examination only or coursework only), the highest existing coursework mark for that module will be combined with the highest existing examination mark, to produce a new overall mark, and this is capped.
 - [c] The final overall module mark shall be the highest overall mark of all attempts.
- 6.4. Where a student is required to retake the year (due to academic failure), all components of the retake modules are reattempted and any previous marks will be replaced. The overall module marks are capped. Where a student is granted a first take (due to extenuating circumstances), the marks are not capped.
- 6.5. Reattempts shall be taken at the next available opportunity except that, in extenuating circumstances, the Chair of the Examination Board shall have discretion to permit a student to defer his/her reattempt(s) by not more than one academic year.
- 6.6. The "next available opportunity" for reattempting examinations will follow the schedule shown in Appendix I.
- 6.7. Number of reattempts:
 - [a] Students will be permitted three reattempts before the end of Year 4, except for modules first taken in semester 6 and 7 where there will be two reattempts.
 - [b] Students who fail to graduate at the end of semester 8 will be permitted to take further re--attempts as available up until the end of the maximum period of 6 years.
- 6.8. Format of reattempt examinations:
 - [a] The first resit examination will be on the syllabus as taught to the student for their first sit.
 - [b] Subsequent resit and retake examinations will be on the syllabus as taught to first-sit students during that year, but all lecture material will be made available to resit and retake students.





- 6.9. Where a module is withdrawn, examinations will be set to give students three resit attempts.
- 6.10. For all technical modules students must pass the coursework hurdle [2.15] in order to pass the module. The following clauses apply to resit students only.
 - [a] Students who fail the coursework hurdle are required to reattempt the coursework.
 - [b] Students who fail the module overall but achieve a pass mark in the coursework are not permitted to reattempt the coursework.
 - [c] Students who fail the module with overall coursework mark between 30% and 40%, can choose to take the next opportunity to reattempt the coursework.
- 6.11. Reattempts in English Language modules are implemented as the national Chinese examination CET4. A pass in CET4 will be taken as a capped pass in any English Language module previously failed.
- 6.12. Extenuating circumstances:
 - [a] A student who, through illness or other cause acceptable to the examination board, is prevented from attending or completing any assessment may be permitted to represent him/herself at the next available opportunity as if for the first time.
 - [b] Requests for extenuating circumstances shall be considered by the university teaching that module in accordance with its own policy, and the decisions reported to the examination board.
 - (i) For modules taught by BUPT requests will be considered by the Programme Director.
 - (ii) For modules taught by QMUL requests will be considered by an Extenuating Circumstances Committee that will include at least one Chinese speaker².
 - [c] All requests must be made at least ten working days before the examination board (for examinations) and within one week of the student's return from being ill (or other cause) for coursework.
- 6.13. The organisation of assessments for each module on the programme shall be governed by the regulations of the institution responsible for teaching that module.
- 6.14. The conduct of assessments for each module on the programme shall be governed by the regulations of the institution responsible for conducting that assessment.
- 6.15. The consideration of any allegation of an examination offence is specified in 12.

7. Progression

7.1. To progress, a student must have an accumulated failure of fewer than 20 Chinese credits outstanding from technical or Chinese compulsory modules.

² Medical and other evidence will generally be in Chinese.





- 7.2. In addition to [7.1], a student must have passed 6 technical modules in Year 2 and have accumulated 12 technical modules from Years 2 and 3 by the end of Year 3 in order to progress.
- 7.3. A student who has an accumulated failure of 20 Chinese credits or more from technical or Chinese compulsory modules must retake failed modules in attendance. If that student subsequently reaches an accumulated failure of 20 Chinese credits or more from technical or Chinese compulsory modules they are required to withdraw.
- 7.4. A student who has an accumulated failure of 30 credits or more from technical or Chinese compulsory modules is required to withdraw.

8. Degree requirements and consideration for Honours

- 8.1. To be admitted to a degree a student must have:
 - [a] been registered on the programme for a minimum period of four academic years;
 - [b] completed all requirements within a maximum period of 6 years (subject to 4.3);
 - [c] passed all English Language modules (a pass in the Chinese national examination CET4 counts as having met all requirements on passing English Language);
 - [d] achieved credit for all technical modules, up to two of which may be compensated;
 - [e] passed all Chinese compulsory modules; and
 - [f] passed the Year 4 Project module.
- 8.2. The Honours board may recommend the award of the degree with up to two QMUL taught compensated technical modules, where:
 - [a] the overall mark for each failed module is between 30 -39% on the UK scale;
 - [b] the honours weighted average mark is at least 40% on the UK scale;
 - [c] the Year 4 Project module mark is at least 40% on the UK scale;
- 8.3. Students have the option of resitting compensated modules if they choose to, in which case, they will be considered at the following academic year's Honours board.
- 8.4. For compensated modules, the transcript provided by QMUL will show the original marks; while the transcript provided by BUPT will show pass marks at 60% CN scale.
- 8.5. Students who fail to meet the degree requirements within the six years maximum period may be issued a Yi Ye Zhengshu by BUPT, but this will not entitle them to a degree from either university.
- 8.6. A student who is awarded a Jie Ye Zhengshu by BUPT may take or retake the modules or resit the examinations within the maximum period of six years from the original start date. If the student meets the requirements in 8.1 he/she will be awarded a degree from both BUPT and QMUL.
- 8.7. The transcript provided by BUPT will show all modules with marks on the BUPT scale.





- 8.8. The transcript provided by QMUL will show all technical and English Language modules with marks on the QMUL UK scale plus an overall Honours classification; it will also show that the student has passed the BUPT requirements and the Engineering Environment modules.
- 8.9. The Honours weighted average shall be calculated as a weighted sum with:
 - [a] 20% for project
 - [b] 5% for Engineering Environment
 - [c] 75% for taught technical modules in Years 2-4 with weighting between years as shown below in order to achieve an approximate weighting of 1:3:6 between levels 4, 5 and 6+7:

2016/17 and earlier cohorts

- (i) 0.18 * average % mark for Year 2 modules
- (ii) 0.33 * average % mark for Year 3 modules
- (iii) 0.24 * average % mark for Year 4 modules

2017/18 and later cohorts

- (i) 0.17 * average % mark for Year 2 modules
- (ii) 0.41 * average % mark for Year 3 modules
- (iii) 0.17 * average % mark for Year 4 modules
- 8.10. Honours shall be awarded based on the Honours weighted average as follows:
 - [a] 2012/13 and earlier cohorts
 - (i) 1st Class >= 70%
 - (ii) Upper second class >= 60% and < 70%
 - (iii) Lower second class >= 50% and < 60%
 - (iv) Third class >=45% and <50%
 - (v) Pass >=40% and <45%
 - [b] 2013/14 and later cohorts
 - (i) 1st Class >= 70%
 - (ii) Upper second class >= 60% and < 70%
 - (iii) Lower second class >= 50% and < 60%
 - (iv) Third class >=40% and <50%
- 8.11. The Honours Board may recommend the award of a higher classification of degree in line with the QMUL Borderline Classification Policy.
- 8.12. A student with tuition fee debts to either institution shall not be entitled to receive the QMUL award.





- 8.13. A candidate who has completed his/her full period of study and has been absent from examinations during his/her final year due to illness or other cause judged sufficient by the relevant Subject Examination Board, may apply to the Programme Director, for consideration at the Subject Examination Board, to be considered for a degree under the aegrotat provisions The application must be accompanied by a medical certificate or other statement of the grounds on which it is made and must be submitted within two weeks from the last examination to which the application refers.
- 8.14. In considering an application for the award of an aegrotat degree, the examination board shall consider the work that the student has submitted during the year and in such part of the examinations as s/he has attended (if any), and records of the candidate's performance during previous years of the programme, to determine whether there is adequate evidence that, had the student completed the examination(s) in normal circumstances, s/he would clearly have reached a standard for the award of the degree. If the board is so satisfied, it shall recommend the award of an aegrotat degree.
- 8.15. On receipt of the offer of an aegrotat degree, the candidate may either accept the offer, in which case the degree will be conferred, or decline the offer, and re-enter the examinations for which s/he is eligible at the next normal date with a view to completing the requirements for the award of a degree. A candidate who elects to re-enter the examinations shall cease to be eligible for an aegrotat degree in respect of the examinations on which the original application was based.
- 8.16. Request for a review of a module result or for a degree classification:
 - [a] Students may request a review of an examination board decision (for an individual module or for the overall classification) within 10 working days or 14 calendar days whichever is later, of the results being released to students using the standard form for JP students.
 - [b] This form must be completed in English for modules taught by QMUL and in Chinese for modules taught by BUPT. The form will be dealt with by the university teaching the module using its normal procedures.
 - [c] For reviews of the overall classification the form must be completed in English and Chinese and will be considered jointly by the two universities.
 - [d] A decision on the review will normally be communicated to the student and the other university within 10 working days or 14 calendar days whichever is later, of the request being received. This may exceptionally be extended where QMUL teaching staff are in Beijing and the relevant examination material is in London.
 - [e] If marks have to be changed as a result of the review they will be reported through Chair's action to the two universities so the records can be updated.

9. Interruption of Enrolment

9.1 A student may interrupt their enrolment for up to two calendar years (total) on the grounds of illness or other good cause with the permission of the Programme Director under the procedures specified by BUPT and in line with the Chinese Ministry of Education regulations. Interruption for periods greater than two years shall be permitted only in very exceptional





- circumstances, with the approval of the JP Steering Committee. A student who interrupts enrolment remains registered for their programme of study.
- 9.2 Periods of interruption shall count towards student's maximum period of study, except where permission is given by the Director of the Academic Affairs Office of BUPT to have the interruption excluded from the period of study.
- 9.3 A student resitting out of attendance shall not be entitled to an interruption of enrolment as defined in this section, and shall remain registered for their programme of study.
- 9.4 A student may not interrupt and return from interruption during the same academic year (for example, a student cannot interrupt for the autumn semester only, returning in semester two).
- 9.5 A student who interrupts shall have the option of taking assessments for modules for which they completed the teaching and learning before the point of interruption. However, such students must elect either to attempt the assessments for all such modules, or for none of them.
- 9.6 Where a student's registration is continuous, the Academic Regulations in place at the time of initial registration for the programme shall continue to apply where it is specifically stated that this is the case.
- 9.7 Students returning from interruption shall only be permitted to enrol at the start of a semester, as designated in the Academic Calendar.

10. Data Protection

10.1. Personal data held in the UK will be subject to UK Data Protection legislation; personal data held in China will follow normal BUPT practice and comply with the relevant Chinese law.

11. Minor Programmes

- 11.1. Minor Programmes are designed to broaden students' knowledge by allowing them to take additional modules apart from their Major Programme.
- 11.2. A Minor Programme comprises no more than 30 credits in total from a list prescribed by the Academic Committee.
- 11.3. Students who have passed all technical and English Language modules and achieved good results at the end of Year 1 can apply to register for a Minor Programme at the beginning of Year 2.
- 11.4. When there is a timetable clash between a major and minor module, students are required to apply for approval from the lecturer of the minor module to allow them to take the module with no attendance. Once approved by the lecturer, students must study the module in their own time and take the exam.
- 11.5. When there is a clash between a major and minor module examination, students must attend the major module examination first, and then attend the resit examination of the minor module without penalty.





- 11.6. Students will not be allowed to continue their Minor Programme study if:
 - [a] they have failed ONE resit attempt at a minor module; or,
 - [b] they have failed two or more technical modules in their Major at their first attempt; or,
 - [c] they study their final year in EECS at QMUL.
- 11.7. To be awarded a Minor Programme Diploma, students must pass all modules of the Minor Programme within the duration of their Major Programme as well as passing the Major.
- 11.8. BUPT will award a Minor Programme Diploma to successful candidates as well as a separate transcript for the Minor Programme.
- 11.9. QMUL will not list the Minor Programme modules on the standard transcript.

12. Assessment offences, appeals, and disciplinary matters

12.1 Disciplinary Procedures

- [a] Each university has its own discipline and appeals procedures, which are not repeated here.
- [b] The general principle is that each university is responsible for offences that affect the modules that it is teaching (apart from as in [d] below) and the normal procedures of that university apply, but any penalty applied will be from the "harmonised penalties" in 12.5. The penalty will be kept on record in both universities and each university will follow its normal practice in whether the offence will be shown on the transcript.
- [c] CET4 and CET6 are Chinese national examinations and any disciplinary matters arising will be dealt with under the national procedures specified for those examinations.
- [d] Offences during an invigilated examination will be dealt with by the university providing the invigilation with penalties from the harmonised list.
- [e] Non-academic disciplinary matters will be dealt with by BUPT under Chinese Law for students committing offences in China.
- [f] Students spending part of the degree in Queen Mary will be treated exactly the same as any other Queen Mary student for disciplinary issues and assessment offences, except that the penalties will be taken from the harmonised list of penalises below.
- 12.2 Request for a review of a module result or for a degree classification

For any request for review a student can only go through the procedure of one institution as follows:

- (i) For individual modules the university teaching
- (ii) QM for review requests on Honours classification³.

³ Since BUPT does not award Honours





Students may request a review of an examination board decision using the standard form from either university, which will be copied to the other university. The form must be submitted to the appropriate university within 14 days of the results being released to students. Details of how to get the form and how to submit it will be given to students before the results are released.

For the avoidance of doubt, the date of release of marks is defined as when students can access marks on mySIS. Students are expected to check their results in a timely manner and the 14 day period will not be extended for students who do not check.

The university receiving the form will deal with the request using its normal procedures.

A decision on the review will normally be communicated to the student and the other university within 14 days of the request being received. This may exceptionally be extended where QM teaching staff are in Beijing and the relevant examination material is in London.

If marks have to be changed as a result of the review they will be reported through Chair's action to the two universities so the records can be updated.

12.3 Appeals

Students appealing against any type of decision shall use the normal procedure of the university that made the original decision. A student may not appeal against the decision of one university to the other.

Any hearing requiring the student to be present shall be conducted face-to face if that is physically possible; if not it shall be held electronically.

Documentation from the student in support of their appeal and any oral submission at a panel meeting must be in English for matters handled at Queen Mary and Chinese for BUPT.

12.4 Appeals to a higher body

A student may appeal against the decision of a university to an external appeals body for the country in which that university is situated⁴ and both universities will be bound by that decision subject to Chinese Law⁵.

12.5 Harmonised Penalties for assessment offences

QM penalties where the mark is capped mean that for the UK transcript and Honours calculation the mark is limited to 40% on the UK scale (60% on the CN scale) but the mark recorded by BUPT will be the uncapped mark as BUPT does not use capping of marks.

Where the penalty involves failure in the module the student may reattempt but, unless specified in the harmonised penalties, must miss the next opportunity except for students spending the final year in London where examinations are held annually.

⁴ E.g. the OIA in the UK





Penalties:

i. A formal warning

- ii. A requirement that the student resubmit the relevant piece(s) of assessment by a specified deadline with no cap on the mark that may be obtained.
- iii. A requirement that the student resubmit the relevant piece(s) of assessment by a specified deadline with the resubmission mark capped at the minimum pass mark.
- iv. A mark of 0 for the relevant piece(s) of assessment, but if the module is failed the student may reattempt at the next opportunity.
- v. A mark of 0 in the module of which the assessment forms a part, with the module mark capped on any reattempt at the minimum pass mark.
- vi. The overall classification of Honours to be reduced by one grade with an explanation to be provided as to why the calculated mark does not match the Honours awarded.
- vii. Recommendation to the JP Steering Committee⁶ that the student be expelled from the two universities. The Steering Committee decision must be ratified by the Principal/President of both universities before the student can be expelled.

Penalty vi. will only be applied for exam offences where the Queen Mary standard penalty of failure of all modules would mean dismissal by BUPT as the students cannot fail more than 30 credits under BUPT regulations.

13. Student complaints

- 13.1. Where a student has a formal complaint about teaching in any module that complaint will normally be made to the university providing the teaching under its normal procedures.
- 13.2. Notwithstanding 13.1 a student may complain about teaching in any module under the procedures of either university.
- 13.3. Once a student has entered a complaint under the procedures of one university, they may not subsequently complain to the other, except under the conditions of 13.5.
- 13.4. The university receiving the complaint shall copy that complaint to the other and keep the other university fully informed of all steps taken.
- 13.5. Where the complaint is considered sufficiently serious that it may lead to disciplinary action against a member of staff, the two universities will consult on the appropriate action to be taken, bearing in mind the provisions in the contract for such issues.

⁶ The contract between QM and BUPT states that this level of disciplinary action should go through the SC





14. External Examiners

- 14.1. Each university shall appoint an external examiner, subject to the approval of the other.
- 14.2. Additional external examiners may be appointed as deemed necessary, but must be approved by both universities.

15. Marks conversion

15.1. Conversion from QMUL to BUPT marks.

QMUL	BUPT	QMUL	BUPT	QMUL	BUPT	QMUL	BUPT
0	0						
1	2	26	39	51	70	76	89
2	3	27	41	52	71	77	89
3	5	28	42	53	72	78	90
4	6	29	44	54	73	79	91
5	8	30	45	55	74	80	91
6	9	31	47	56	75	81	92
7	11	32	48	57	75	82	92
8	12	33	50	58	76	83	93
9	14	34	51	59	77	84	93
10	15	35	53	60	78	85	94
11	17	36	54	61	79	86	94
12	18	37	56	62	79	87	95
13	20	38	57	63	80	88	95
14	21	39	59	64	81	89	96
15	23	40	60	65	82	90	96
16	24	41	61	66	82	91	97
17	26	42	62	67	83	92	97
18	27	43	63	68	84	93	97
19	29	44	64	69	84	94	98
20	30	45	65	70	85	95	98
21	32	46	66	71	86	96	99
22	33	47	67	72	86	97	99
23	35	48	68	73	87	98	99
24	36	49	69	74	88	99	99
25	38	50	69	75	88	100	100

15.2. Conversion from BUPT to QM marks

BUPT	QMUL	BUPT	QMUL	BUPT	QMUL	BUPT	QMUL
0	0						
1	1	26	17	51	34	76	58
2	1	27	18	52	35	77	59
3	2	28	19	53	35	78	60
4	3	29	19	54	36	79	62
5	3	30	20	55	37	80	63
6	4	31	21	56	37	81	64
7	5	32	21	57	38	82	66
8	5	33	22	58	39	83	67
9	6	34	23	59	39	84	69
10	7	35	23	60	40	85	70
11	7	36	24	61	41	86	72
12	8	37	25	62	42	87	73
13	9	38	25	63	43	88	75
14	9	39	26	64	44	89	76
15	10	40	27	65	45	90	78
16	11	41	27	66	46	91	80
17	11	42	28	67	47	92	82





BUPT	QMUL	BUPT	QMUL	BUPT	QMUL	BUPT	QMUL
18	12	43	29	68	48	93	84
19	13	44	29	69	50	94	86
20	13	45	30	70	51	95	88
21	14	46	31	71	52	96	90
22	15	47	31	72	53	97	92
23	15	48	32	73	54	98	95
24	16	49	33	74	55	99	97
25	17	50	33	75	57	100	100





Appendix I

JP Resit arrangements

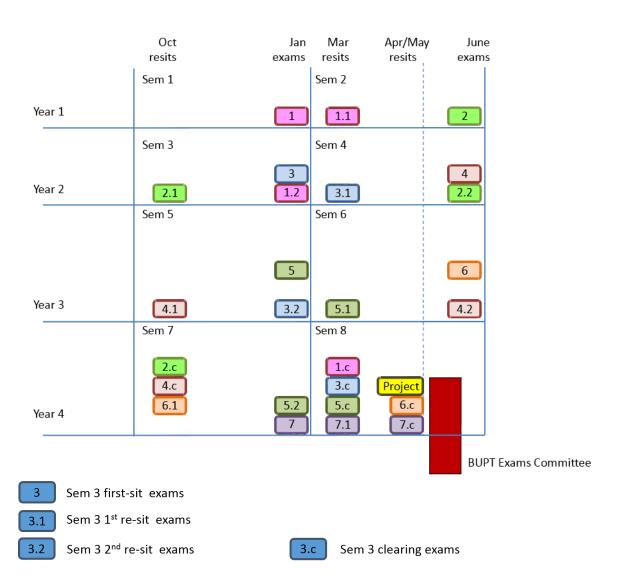


Figure 1 JP Resit Arrangements