

**Office for  
Students**



# **2019-20 HESA Student Alternative data checking tool**

**HESES19 comparison technical document**

**Enquiries to** [APData@officeforstudents.org.uk](mailto:APData@officeforstudents.org.uk)

**Publication date** 12 August 2020

# Contents

<b>Summary</b>	<b>3</b>
Changes from the HESES18B comparison post-collection output	3
HESES19 comparison workbook	17
HESES19 comparison individualised and instance period files	20
Instance period ranking	21
<b>Description of derived fields</b>	<b>23</b>
Instance period derived fields	28
Instance period exclusions	35
Instance derived fields	37
Recreating Columns 3 and 4	46
Instance exclusions	51
Overrides	54
Estimating FTE	54

# Summary

1. This document describes the Higher Education Students Early Statistics survey 2019-20 (HESES19) comparison files generated by the 2019-20 Higher Education Statistics Agency (HESA) Student Alternative data checking tool, and the algorithms used to generate the data needed to recreate HESES19 from 2019-20 HESA Student Alternative data. Throughout the document, fields taken or derived from the HESA Student Alternative record are shown in capitals.
2. The HESES19 comparison output can be used by higher education providers to verify and correct their 2019-20 individualised student data before signing off the final data with HESA.
3. The HESES19 comparison output comprises three files. These are:
  - a. HESES19 comparison workbook 'HES19\_DCT\_XXXXXXXX.xlsx'.
  - b. HESES19 comparison individualised file 'HES19\_DCT\_XXXXXXXX\_IND.csv'.
  - c. HESES19 comparison instance period file 'HES19\_DCT\_XXXXXXXX\_INSTPER.csv'.

Details of how to use individualised files are given on the Office for Students (OfS) website at [www.officeforstudents.org.uk/data-and-analysis/supplying-data/working-with-individualised-files/](http://www.officeforstudents.org.uk/data-and-analysis/supplying-data/working-with-individualised-files/).

4. These files can be accessed via the Information Reporting Interface Service (IRIS) report which is available on HESA's data collection site at <https://datacollection.hesa.ac.uk/>. Access details will be sent to the appropriate contacts at providers when the data checking tool is available.
5. This document is aimed at readers with in-depth knowledge of the data. Readers are advised to refer to the Coding Manual for the 2019-20 HESA Student Alternative record (<https://www.hesa.ac.uk/collection/c19054>), 'Higher Education Students Early Statistics survey 2019-20 (HESES19)' ([www.officeforstudents.org.uk/publications/heses19/](http://www.officeforstudents.org.uk/publications/heses19/)) and the latest individualised files for the HESES18B comparison and the HESES17 population to hand when using this document.
6. We will document any changes or corrections to the algorithms in this document on the OfS website: [www.officeforstudents.org.uk/data-and-analysis/data-checking-tools/2019-20-hesa-student-alternative-data-checking-tool/](http://www.officeforstudents.org.uk/data-and-analysis/data-checking-tools/2019-20-hesa-student-alternative-data-checking-tool/) under 'Updates'.

## Changes from the HESES18B comparison post-collection output

7. This section describes any changes to the output and algorithms since the equivalent was published for the 2018-19 HESA Alternative Provider (AP) student post-collection outputs, available here: [www.officeforstudents.org.uk/data-and-analysis/post-collection-outputs/hesa-ap-student-data/](http://www.officeforstudents.org.uk/data-and-analysis/post-collection-outputs/hesa-ap-student-data/) under 'Documentation'. Additions are shown as **bold and underlined**, and deletions are shown as ~~struck through~~.

## Changes due to the coronavirus (COVID-19) pandemic

8. As stated in the exceptional guidance published by HESA in response to the pandemic (<https://www.hesa.ac.uk/definitions/ap-student/c19054-student-alternative-record-exceptional-guidance>), we have decided not to use the FUNDCOMP field from the 2019-20 HESA Student Alternative record, other than to identify records which are excluded from the HESES population (FUNDCOMP = 9). It was originally intended to use FUNDCOMP to assign years of instance to Column 3 or Column 4 of Tables 1, 2 and 3 of the HESES19 recreation, with the value of a new HESCOMP field indicating the column to which each year of instance was assigned. As it is not possible to do this for the 2019-20 data checking tool, we have developed an alternative method of assigning years of instance to Columns 3 and 4 that does not use FUNDCOMP. This method creates the following new fields: **HESNCOMPLEVEL\_Y**, **HESNCOMPRATE\_Y**, **HESNCOMPLEVEL\_Z**, **HESNCOMPRATE\_Z**, **HESCOL3\_PROFX**, **HESCOL3\_Y**, **HESCOL3**, **HESCOL4\_PROFX**, **HESCOL4\_Y**, **HESCOL4**, **HESCOL4A**. The algorithms for these fields are shown in the 'Recreating Columns 3 and 4' and 'Estimating FTE' sub-sections of the 'Description of derived fields' section of this document.

### Recreating Columns 3 and 4 using HESES19 non-completion rates

9. For the HESES19 comparison, we are using non-completion rates calculated from HESES19 data to determine the likelihood that a student did not complete a particular year of instance. This likelihood is used to determine the proportion of the year of instance that is counted in Column 3, and the proportion that is counted in Column 4. These proportions are recorded in the HESCOL3 and HESCOL4 fields. For example, if the non-completion rate applicable to a particular year of instance is 15 per cent, then (HESCOL3 = 0.15) and (HESCOL4 = 0.85) for that year of instance.
10. Headcounts from Columns 1, 2 and 3 of Tables 1, 2 and 3 of HESES19 have been used to calculate non-completion rates at five different levels. These are used to calculate HESCOL3 and HESCOL4 for years of instance recorded in Tables 1, 2 and 3 but not in Tables 6a, 6b and 6c. Headcounts from Columns 1, 2 and 3 of Tables 6a, 6b and 6c were deducted from the headcounts from Tables 1, 2 and 3 before the rates were calculated, because non-completion rates for years of instance recorded in Tables 6a, 6b and 6c were calculated separately using a different method (see paragraph 12). At the lowest level, rates have been calculated for all combinations of the following parameters: provider; mode of study; level of study; residential and fundability status; price group; length of year of instance. At the highest level, rates have been calculated using the total headcounts from Columns 1, 2 and 3 of Tables 1, 2 and 3 of HESES19 (minus those also recorded in Tables 6a, 6b and 6c) for each provider. The combination of parameters used for each level are shown below:
- Level 1: (provider) x (mode of study) x (level of study) x (residential and fundability status) x (price group) x (length of year of instance).
  - Level 2: (provider) x (mode of study) x (level of study) x (residential and fundability status) x (price group).
  - Level 3: (provider) x (mode of study) x (level of study).
  - Level 4: (provider) x (mode of study).
  - Level 5: (provider).

11. As well as calculating the non-completion rate, the (Column 1 + Column 2) headcount has also been calculated for each combination at each level. These headcounts are used to determine the reliability of the calculated rate. A rate is deemed reliable if there are at least 10 years of instance in the group for which the rate was calculated, except at Level 5 where all rates are deemed reliable irrespective of the number of years of instance in the group.
12. Headcounts from Columns 1, 2 and 3 of Tables 6a, 6b and 6c of HESES19 have been used to calculate non-completion rates at five different levels. These are used to calculate HESCOL3 and HESCOL4 for years of instance recorded in Tables 6a, 6b and 6c. At the lowest level, rates have been calculated for all combinations of the following parameters: provider; mode of study; profession; residential and fundability status; level of study. At the highest level, rates have been calculated using the total headcounts from Columns 1, 2 and 3 of Tables 6a, 6b and 6c of HESES19 for each provider. The combination of parameters used for each level are shown below:
  - a. Level 1: (provider) x (mode of study) x (profession) x (residential and fundability status) x (level of study).
  - b. Level 2: (provider) x (mode of study) x (profession) x (residential and fundability status).
  - c. Level 3: (provider) x (mode of study) x (profession).
  - d. Level 4: (provider) x (mode of study).
  - e. Level 5: (provider).
13. As well as calculating the non-completion rate, the (Column 1 + Column 2) headcount has also been calculated for each combination at each level. These headcounts are used to determine the reliability of the calculated rate. A rate is deemed reliable if there are at least 10 years of instance in the group for which the rate was calculated, except at Level 5 where all rates are deemed reliable irrespective of the number of years of instance in the group. Where there are no years of instance in the group at Level 5, the rate is set to zero.
14. In the first step of the process of finding a suitable non-completion rate for a year of instance, we look for the corresponding rate at Level 1, using the combination of parameters shown in either paragraph 10 or paragraph 12, depending on whether the year of instance is only recorded in Tables 1 to 3, or whether it is also recorded in Tables 6a to 6c. If a rate at this level is not found (i.e. the year of instance does not correspond with a year of instance recorded by the provider at this level in HESES19), or the corresponding rate is deemed unreliable because there are not enough years of instance in the group for which the rate was calculated, then we look for the corresponding rate at Level 2. If a rate at this level is not found, or the corresponding rate is deemed unreliable, then we look for the corresponding rate at Level 3. This process of moving to higher levels continues until a suitable rate is found. Note that if the level of study for a year of instance is not determined, then no rate will be found.
15. Because a year of instance can be in more than one price group or profession, and the non-completion rates at some levels are dependent on price group or profession, it may be necessary to apply more than one non-completion rate to a year of instance. For this reason, the process of finding a suitable non-completion rate is carried out for each price group or profession that has activity in it. It is therefore possible for the values of HESCOL3 and

HESCOL4 for a particular year of instance in Table 1, 2 or 3 (but not in Tables 6a to 6c) to be calculated using five different non-completion rates if there is activity in each of the five price groups. Similarly, it is possible for the values in HESCOL3 and HESCOL4 for a year of instance in Table 6a, 6b or 6c to be calculated using two different non-completion rates if there is activity in two professions.

16. The contribution to the proportions recorded in HESCOL3 and HESCOL4 from each price group or profession is determined by the proportion of activity in each price group or profession. For example, if 60 per cent of the activity for a year of instance is in price group B and 40 per cent is in price group C1, and the non-completion rates are 15 per cent for the price group B activity and 20 per cent for the price group C1 activity, then the value of HESCOL3 would be calculated as follows:  $(0.60 \times 0.15) + (0.40 \times 0.20) = 0.17$ . Or if 50 per cent of the activity for a year of instance is in 'Nursing – adult' and 50 per cent is in 'Nursing – children', and the non-completion rates are 11 per cent for 'Nursing – adult' and 9 per cent for 'Nursing – children', then the value of HESCOL3 would be calculated as follows:  $(0.50 \times 0.11) + (0.50 \times 0.09) = 0.10$ .

### Using HESCOL4 to estimate full-time equivalence (FTE)

17. By applying the method described above, every year of instance in the HESES19 population contributes to both Column 3 and Column 4 of Table 1, 2 or 3 of the HESES19 recreation. Consequently, every part-time year of instance also contributes to the FTE in Column 4a. For the 2018-19 post-collection output, FTEY\_EXCLEST and FTEY\_INCLEST (where Y is the price group) were calculated for each instance period by multiplying the value of HESESFTE\_EXCLEST or HESESFTE\_INCLEST for the instance period by the proportion of activity in each price group for the first ranked instance period. We cannot apply this method for the 2019-20 data checking tool, because without using FUNDCOMP it would not be possible to exclude the FTE we would calculate for instance periods of non-completed years of instance. Instead, we must exclude non-completed years of instance before we calculate the FTE in each price group. For this reason, the algorithms that calculate FTEY\_EXCLEST and FTEY\_INCLEST have been modified so that only the proportion of a year of instance that is counted in Column 4 is used to calculate FTE. In addition, a new HESCOL4A field has been created to record the sum of the FTE (FTEY\_INCLEST) from all price groups for each instance period. This is necessary to rebuild Column 4a, because without using FUNDCOMP it is not possible to exclude FTE associated with non-completed years of instance when summing HESESFTE\_INCLEST.
18. FTEA\_EXCLEST, FTETB\_EXCLEST, FTETC1\_EXCLEST, FTETC2\_EXCLEST and FTED\_EXLCEST are now calculated by multiplying HESESFTE\_EXCLEST by the contribution of the activity in the price group for the first ranked instance period to Column 4 of Tables 1-3 of the HESES19 recreation, instead of simply by the proportion of activity in each price group for the first ranked instance period.

Field	Definition
FTEA_EXCLEST	<b>HESCOL4_A</b> HESPRGA x HESESFTE_EXCLEST
FTEB_EXCLEST	<b>HESCOL4_B</b> HESPRGB x HESESFTE_EXCLEST
FTEC1_EXCLEST	<b>HESCOL4_C1</b> HESPRGC1 x HESESFTE_EXCLEST
FTEC2_EXCLEST	<b>HESCOL4_C2</b> HESPRGC2 x HESESFTE_EXCLEST

Field	Definition
FTED_EXCLEST	<b>HESCOL4_D</b> HESPRGD x HESESFTE_EXCLEST

19. FTEA\_INCLEST, FTEB\_INCLEST, FTEC1\_INCLEST, FTEC2\_INCLEST and FTED\_INLCEST are now calculated by multiplying HESESFTE\_INCLEST by the contribution of the activity in the price group for the first ranked instance period to Column 4 of Tables 1-3 of the HESES19 recreation, instead of simply by the proportion of activity in each price group for the first ranked instance period.

Field	Definition
FTEA_INCLEST	<b>HESCOL4_A</b> HESPRGA x HESESFTE_INCLEST
FTEB_INCLEST	<b>HESCOL4_B</b> HESPRGB x HESESFTE_INCLEST
FTEC1_INCLEST	<b>HESCOL4_C1</b> HESPRGC1 x HESESFTE_INCLEST
FTEC2_INCLEST	<b>HESCOL4_C2</b> HESPRGC2 x HESESFTE_INCLEST
FTED_INCLEST	<b>HESCOL4_D</b> HESPRGD x HESESFTE_INCLEST

20. HESCOL4A is calculated by multiplying HESESFTE\_INCLEST by the contribution of the year of instance to Column 4 of Tables 1-3 of the HESES19 recreation (HESCOL4), and then dividing by 100. Note that the contribution to Column 4 is derived from the first ranked instance period.

### Other changes

#### HESINITIATIVES3\_PX

21. This field has been added because three occurrences of the INITIATIVES field are permitted in the 2019-20 HESA Student Alternative record.

#### HESBJCA4\_PX, HESBJCA5\_PX, HESSBJPCNT4\_PX, HESSBJPCNT5\_PX

22. These fields have been added because five occurrences of the Course Subject entity are permitted in the 2019-20 HESA Student Alternative record.

#### HESELQQAIM, HESELQQENT, HESELQCOMP, HESELQ

23. These fields, which were used to determine whether a student is counted as aiming for an equivalent or lower qualification (ELQ) according to OfS funding definitions, have been removed, because there is a FUNDCODE field in the 2019-20 HESA Student Alternative record, and the provider takes ELQ status into account when determining the value of this field for each year of instance.

#### HESLEVEL

24. The use of HESCOURSEAIM\_P1 in the HESLEVEL algorithms to determine the broad level of study (undergraduate (UG), postgraduate taught (PGT), postgraduate research (PGR)) is no longer required because there is a FUNDCODE field in the 2019-20 HESA Student Alternative record. HESCOURSEAIM\_P1 is now only used to differentiate between postgraduate taught levels. The algorithms for (HESLEVEL = PGT\_UGF) and (HESLEVEL = PGT\_ML) also take

account of the possibility of there being three occurrences of the INITIATIVES field for the first ranked instance period.

25. Years of instance that are not assigned a value by the algorithms below are no longer recorded as (HESLEVEL = OTHER).

Value	Description	Definition
UG	Undergraduate	<b>FUNDLEV = 10, 11</b> HESCOURSEAIM_P1 = M22, M26, M28, H00, H11, H12, H16, H18, H22, H23, H41, H42, H70, H71, H76, H79, H80, H90, I00, I11, I12, I16, I70, I74, I76, I78, I79, I80, I90, J10, J16, J20, J26, J30, J41, J42, J76, J80, J90, C20, C30, C41, C42, C77, C78, C80, C90
PGT_UGF	Postgraduate taught and eligible under the undergraduate student support regime	<b>FUNDLEV = 20, 21 and</b> <b>((HESCOURSEAIM_P1 = E00, E43, E90, M00, M01, M02, M10, M11, M16, M40, M41, M42, M44, M50, M70, M71, M72, M73, M76, M78, M79, M80, M86, M90, H50, H60, H61, H62, H72, H78, H81, I60, I61, I72, I73, I81 and HESTTCID_P1 = 1, 2, Q) or</b> HESCOURSEAIM_P1 = H88 or (HESCOURSEAIM_P1 = M88 and HESINITIATIVES1_P1 ≠ U and HESINITIATIVES2_P1 ≠ U <b>and</b> <b>HESINITIATIVES3_P1 ≠ U)</b> or (HESCOURSEAIM_P1 = M16, M86, H62 and (HESHEALTHPROF1 ≠ BLANK or HESHEALTHPROF2 ≠ BLANK))),
PGT_ML	Postgraduate taught course eligible for masters' loans	<b>FUNDLEV = 20, 21 and</b> (HESCOURSEAIM_P1 = M00, M01, M10, M11, M88 or (HESCOURSEAIM_P1 = M16 and HESHEALTHPROF1 = BLANK and HESHEALTHPROF2 = BLANK)) and (HESINITIATIVES1_P1 = U or HESINITIATIVES2_P1 = U <b>or</b> <b>HESINITIATIVES3_P1 = U)</b> )
PGT_OTH	Postgraduate taught course that does not fall under the previous two categories	<b>FUNDLEV = 20, 21</b> HESCOURSEAIM_P1 = E00, E43, E90, M00, M01, M02, M10, M11, M16, M40, M41, M42, M44, M50, M70, M71, M72, M73, M76, M78, M79, M80, M86, M90, H50, H60, H61, H62, H72, H78, H81, I60, I61, I72, I73, I81 and not above
PGR	Postgraduate research	<b>FUNDLEV = 30, 31</b> HESCOURSEAIM_P1 = D00, D90, L00, L80, L90, L99
OTHER	Otherwise	None of the above

## HESTYPE

26. In previous years, the algorithm for (HESTYPE = HOMENF) attempted to replicate as far as possible the descriptions in the HES guidance of the groups of Home and EU students that should be recorded as non-fundable. The inclusion of FUNDPCODE and FUNDLEV fields in the 2019-20 HESA Student Alternative record obviates the need to include a clause for each of these groups in the algorithm, because most of these groups are considered when determining the value of FUNDPCODE.



Value	Description	Definition
HOMENF	Home and EU non-fundable	<b>(FUNDCODE = 1 and FUNDLEV = 30, 31) or (FUNDCODE = 2, 5, 7 and HESEC = UK, OEU) and</b> <b>(HESTTCID_P1 = 1, 5, Q or HESELQ = 1 or HESLEVEL = PGR or (HESCOURSEAIM_P1 = H16, H62, I16, J26, M16, M26, M86 and (((HESHEALTHPROF1 ≠ BLANK, DENTHE, DENHYG or HESHEALTHPROF2 ≠ BLANK, DENTHE, DENHYG) and ((HESLEVEL = UG and HESHEALTHYEAR = 2016-17, OTHER) or (HESLEVEL = PGT_UGF, PGT_ML, PGT_OTH and HESHEALTHYEAR = 2017-18, 2016-17, OTHER)))) or ((HESHEALTHPROF1 = DENTHE, DENHYG or HESHEALTHPROF2 = DENTHE, DENHYG) and HESHEALTHYEAR = 2017-18, 2016-17, OTHER)))) or (HESMSTUFEE_P1 = 31 and GROSSFEE = 0) or (HESLEVEL = PGT_UGF, PGT_ML, PGT_OTH and HESMSTUFEE_P1 = 02, 03, 04, 06, 08, 09, 11, 12, 13, 14, 15, 17, 18, 19, 31, 32, 34, 35, 36, 37, 38, 39, 41, 42, 44, 49 and GROSSFEE = 0))</b>
HOMEF	Home and EU fundable	<b>FUNDCODE = 1 HESEC = UK, OEU and not above</b>
ISOV	Island and overseas	Otherwise

## HESLENGTH

27. This field has been added because there is a FUNDLEV field in the 2019-20 HESA Student Alternative record, which can be used to determine whether the student is on a standard or long year of instance.

## HESMDV

28. The algorithms for this field no longer use the HESSBJCAX\_P1 fields. For HESES19, providers mapped activity to price groups on the basis of the Higher Education Classification of Subjects (HECoS) codes for their courses, instead of the Joint Academic Coding System (JACS) codes that were used to map activity to price groups in HESES18. JACS codes were specified in the 2018-19 algorithms to exclude students on courses with JACS codes that should never be mapped to price group A. It is unclear at this stage which HECoS codes will be used for pre-clinical and clinical medicine, dentistry and veterinary science, and so HECoS codes are not specified in the algorithms. If it becomes clear during data verification that certain HECoS codes should never be mapped to price group A, we will modify the algorithms to exclude these codes.

29. HESREGBODY2\_P1 is no longer used in the algorithms, because other REGBODY codes are never used in combination with REGBODY codes 01, 14 and 30.

30. The value for all other students has been changed from 'OTHER' to 'OTH' to be consistent with the 2019-20 HESA Student data checking tool.

Value	Description	Definition
UMED	Undergraduate pre-clinical or clinical medicine student	HESLEVEL = UG and HESCOURSEAIM_P1 = H16, I16, M26 and (HESREGBODY1_P1 = 01 or HESREGBODY2_P1 = 01) and (HESBJCA1_P1 = A100, A300 or HESBJCA2_P1 = A100, A300 or HESBJCA3_P1 = A100, A300)
UDEN	Undergraduate pre-clinical or clinical dentistry student	HESLEVEL = UG and HESCOURSEAIM_P1 = H16, I16, M26 and (HESREGBODY1_P1 = 30 or HESREGBODY2_P1 = 30) and (HESBJCA1_P1 = A200, A400 or HESBJCA2_P1 = A200, A400 or HESBJCA3_P1 = A200, A400)
UVET	Undergraduate pre-clinical or clinical veterinary science student	HESLEVEL = UG and HESCOURSEAIM_P1 = H16, I16, M26 and (HESREGBODY1_P1 = 14 or HESREGBODY2_P1 = 14) and (HESBJCA1_P1* = D1, D2 or HESBJCA2_P1* = D1, D2 or HESBJCA3_P1* = D1, D2)
<b>OTH</b> OTHER	Otherwise	Otherwise

## HESCLIN

31. The SBJCA field in the 2019-20 HESA Student Alternative record stores Higher Education Classification of Subjects (HECoS) codes, instead of the Joint Academic Coding System (JACS) codes that were used in the previous academic year. The values of HESSBJCAX\_P1 specified in the algorithms for (HESCLIN = 2) and (HESCLIN = 3) have therefore been changed from JACS codes to HECoS codes. These algorithms also take account of the possibility of there being five occurrences of the SBJCA field for the first ranked instance period.

Value	Description	Definition
1	Undergraduate clinical medicine, dentistry or veterinary science student assigned to price group A	(HESMDV = UMED and (HESCRSELGTH – HESYEARPRG_P1) = 0, 1, 2) or (HESMDV = UDEN and (HESCRSELGTH – HESYEARPRG_P1) = 0, 1, 2, 3) or (HESMDV = UVET and (HESCRSELGTH – HESYEARPRG_P1) = 0, 1, 2, 3, 4)
2	Postgraduate clinical medicine or dentistry student assigned to price group A	HESLEVEL = PGR, PGT_ML, PGT_OTH, PGT_UGF and (HESBJCA1_P1 = <del>100266</del> A400, <del>100267</del> A300, <del>100494</del> C842, C845 or HESBJCA2_P1 = <del>100266</del> A400, <del>100267</del> A300, <del>100494</del> C842, C845 or HESBJCA3_P1 = <del>100266</del> A400, <del>100267</del> A300, <del>100494</del> C842, C845 or <b>HESBJCA4_P1 = 100266, 100267, 100494 or</b> <b>HESBJCA5_P1 = 100266, 100267, 100494</b> )

Value	Description	Definition
3	Postgraduate clinical veterinary science student assigned to price group A	HESLEVEL = PGR, PGT_ML, PGT_OTH, PGT_UGF and (HESBJCA1_P1 = <del>100531, 101347</del> D2 or HESBJCA2_P1 = <del>100531, 101347</del> D2 or HESBJCA3_P1 = <del>100531, 101347</del> D2 or <b>HESBJCA4_P1 = 100531, 101347 or</b> <b>HESBJCA5_P1 = 100531, 101347</b> )
0	Otherwise	Otherwise

### HESPRGA, HESPRGB, HESPRGC1, HESPRGC2, HESPRGD

32. The SBJCA field in the 2019-20 HESA Student Alternative record stores Higher Education Classification of Subjects (HECoS) codes, instead of the Joint Academic Coding System (JACS) codes that were used in the previous academic year. For the most part, the Common Aggregation Hierarchy (CAH) standard groupings of HECoS codes can be used to determine price groups. The algorithms that specified JACS codes have therefore been updated so that they now show which CAH codes to assign to each price group. There are some exceptions, where only certain HECoS codes within a CAH standard grouping are assigned to a particular price group. For these exceptions, the HECoS codes to assign to each price group are shown in brackets alongside the CAH code.

Field name	Definition	Value
HESPRGC2	HESMODE = SWOUT	1
HESPRGA	HESCLIN = 1, 2, 3 or (HESCOURSEAIM_P1 = H16, H62, I16, J26, M16, M26, M86 and (HESHEALTHPROF1 = DENHYG, DENTHE or HESHEALTHPROF2 = DENHYG, DENTHE)) and not above	1
HESPRGB	HESCOURSEAIM_P1 = H16, H62, I16, J26, M16, M26, M86 and (HESHEALTHPROF1 = DIETET, MIDWIF, OCCTHE, OPDEPT, ORTHOP, ORTPRO, PHYSIO, PODCHI, RADTHE, RADDIA, SPELAN or HESHEALTHPROF2 = DIETET, MIDWIF, OCCTHE, OPDEPT, ORTHOP, ORTPRO, PHYSIO, PODCHI, RADTHE, RADDIA, SPELAN) and not above	1
HESPRGC1	HESCOURSEAIM_P1 = H16, H62, I16, J26, M16, M26, M86 and (HESHEALTHPROF1 = NURSUN, NURSAD, NURSCH, NURSLD, NURSMH or HESHEALTHPROF2 = NURSUN, NURSAD, NURSCH, NURSLD, NURSMH) and not above	1
HESPRGC2	HESTTCID_P1 = 1, 2, 5, Q or HESREGBODY1_P1 = 54 or HESREGBODY2_P1 = 54 and not above	1

Field name	Definition	Value
HESPRGB	<p>HESBJCAX_P1 corresponds to one of the following Common Aggregation Hierarchy codes:</p> <p><del>CAH01, CAH02-02, CAH02-05, CAH02-06-01, CAH02-06-02, CAH02-06-03, CAH02-06-06 (only when HESBJCAX_P1 = 100241, 100243), CAH03-01-01, CAH03-01-02, CAH03-01-03, CAH03-01-04, CAH03-01-05, CAH03-01-06, CAH03-01-07, CAH03-01-08, CAH03-01-10, CAH05, CAH06-01-01, CAH06-01-02, CAH06-01-03, CAH06-01-05, CAH06-01-07, CAH07, CAH10-01-01, CAH10-01-02, CAH10-01-03 (only when HESBJCAX_P1 = 100152, 100170, 100193, 100201, 100202, 100205, 100206, 100209, 100211, 101397, 101398), CAH10-01-04, CAH10-01-05, CAH10-01-06, CAH10-01-07 (only when HESBJCAX_P1 = 100120, 100148, 100153, 100154, 100156, 100157, 100180, 100551, 100565), CAH10-01-08, CAH10-01-09, CAH10-01-10, CAH10-03-01, CAH10-03-02, CAH10-03-03, CAH10-03-04, CAH10-03-05, CAH10-03-06 (only when HESBJCAX_P1 = 100186, 100222, 100230, 100560, 101356), CAH10-03-07, CAH15-01-04 (only when HESBJCAX_P1 = 101218), CAH26-01-04, CAH26-01-06</del></p> <p>and not above</p>	<p>Sum of HESBJPCNT1_P1, HESBJPCNT2_P1, HESBJPCNT3_P1, <del>HESBJPCNT4_P1, HESBJPCNT5_P1</del> divided by 100</p>
HESPRGC1	<p>HESBJCAX_P1 corresponds to one of the following Common Aggregation Hierarchy codes:</p> <p><del>CAH10-01-03 (only when HESBJCAX_P1 = 100109, 100110), CAH11, CAH20-01-03, CAH24-01-01, CAH24-01-03, CAH24-01-04, CAH24-01-05, CAH25, CAH26-01-05 (only when HESBJCAX_P1 = 100369)</del></p> <p>and not above</p>	<p>Sum of HESBJPCNT1_P1, HESBJPCNT2_P1, HESBJPCNT3_P1, <del>HESBJPCNT4_P1, HESBJPCNT5_P1</del> divided by 100</p>
HESPRGC2	<p>HESBJCAX_P1 corresponds to one of the following Common Aggregation Hierarchy codes:</p> <p><del>CAH02-04, CAH02-06-04, CAH02-06-05, CAH02-06-06 (only when HESBJCAX_P1 = 100233, 100234, 100235, 100236, 100237, 100239, 100242, 100253, 100739, 101241, 101340, 101375), CAH02-06-07, CAH03-01-09, CAH03-02, CAH04, CAH06-01-06, CAH06-01-08, CAH09, CAH10-01-03 (only when HESBJCAX_P1 = 100213), CAH10-01-07 (only when HESBJCAX_P1 = 100219, 100548, 100549, 101048), CAH10-03-06 (only when HESBJCAX_P1 = 100093), CAH13, CAH15-04-03, CAH17-01-06, CAH19-04-01, CAH19-04-02, CAH19-04-03, CAH19-04-04, CAH19-04-05, CAH19-04-06, CAH19-04-07, CAH19-04-09, CAH26-01-01, CAH26-01-02, CAH26-01-03, CAH26-01-05 (only when HESBJCAX_P1 = 101056)</del></p> <p>and not above</p>	<p>Sum of HESBJPCNT1_P1, HESBJPCNT2_P1, HESBJPCNT3_P1, <del>HESBJPCNT4_P1, HESBJPCNT5_P1</del> divided by 100</p>

Field name	Definition	Value
HESPRGD	<p>HESSBJCAX_P1 corresponds to one of the following Common Aggregation Hierarchy codes:</p> <p><del>CAH06-01-04, CAH15-01-01, CAH15-01-02, CAH15-01-03, CAH15-01-04 (only when HESSBJCAX_P1 = 100436, 100437, 100663), CAH15-01-05, CAH15-01-06, CAH15-02, CAH15-03, CAH15-04-01, CAH15-04-02, CAH16, CAH17-01-01, CAH17-01-02, CAH17-01-03, CAH17-01-04, CAH17-01-05, CAH17-01-07, CAH17-01-08, CAH17-01-09, CAH19-01, CAH19-02, CAH19-04-08, CAH20-01-01, CAH20-01-02, CAH20-01-04, CAH20-01-05, CAH20-02, CAH22, CAH23, CAH24-01-02</del></p> <p>and not above</p>	Sum of HESSBJPCNT1_P1, HESSBJPCNT2_P1, HESSBJPCNT3_P1, <del>HESSBJPCNT4_P1, HESSBJPCNT5_P1</del> divided by 100

### HESUG18, HESPGT18, HESPGR18

33. These fields have been created to record the number of years of instance, for a higher education course recognised for OfS funding purposes, that are associated with the UK Provider Reference Number (UKPRN) and HESA unique student identifier (HUSID) in the 2018-19 HESA AP Student record. These fields are used to determine the value of HESNEWENTRANT.

### HESNEWENTRANT

34. The algorithm for this field has been updated to identify years of instance for the student at the same broad level at the registering provider in the two previous academic years, instead of just the previous academic year. Although the identification of new entrants involves the linking of students to the previous two academic years, it was not possible to link to the 2016-17 academic year for the HESSES18B comparison.

Value	Description	Definition
1	Has not been active at the same broad level at the registering provider in either of the two previous academic years, linked by UKPRN and HUSID	COMDATE > 31 July <del>2019</del> 2018 and ((HESBROADLEVEL = UG and HESUG17 = 0, BLANK <del>and HESUG18 = 0, BLANK</del> ) or (HESBROADLEVEL = PGT and HESPGT17 = 0, BLANK <del>and HESPGT18 = 0, BLANK</del> ) or (HESBROADLEVEL = PGR and HESPGR17 = 0, BLANK <del>and HESPGR18 = 0, BLANK</del> ))
0	Otherwise	Otherwise

### HESHEALTHYEAR

35. This field has an additional value of '2019-20' to account for the cohort of students who started in the 2019-20 academic year.

Value	Description	Definition
2019-20	Student started in the 2019-20 academic year	COMDATE > 31 July 2019 and COMDATE < 1 August 2020

## HESHEALTHPOP

36. The algorithm for this field has been updated to reflect the changes to the population of Tables 6a, 6b and 6c in HESES19. The population is defined in the HESES19 guidance (Annex L, paragraph 3).

Value	Description	Definition
1	Included in health population	<p>HESEXCL = 0 and  HESCOURSEAIM_P1 = H16, H62, I16, J26, M16, M26, M86 and  <b>HESLEVEL = UG, PGT, UGF and</b>  <b>HESTYPE = HOMEF, HOMENF and</b>  <b>(HESHEALTHPROF1 ≠ BLANK or HESHEALTHPROF2 ≠ BLANK)</b></p> <p>((HESHEALTHYEAR = 2016-17 and  HESLEVEL = UG and  ((HESTYPE = HOMEF and  (HESHEALTHPROF1 = OCCTHE, OPDEPT,  ORTHOP, PHYSIO, RADDIA, RADTHE or  HESHEALTHPROF2 = OCCTHE, OPDEPT,  ORTHOP, PHYSIO, RADDIA, RADTHE)) or  (HESTYPE = HOMENF and  (HESHEALTHPROF1 ≠ DENHYG, DENTHE,  BLANK or  HESHEALTHPROF2 ≠ DENHYG, DENTHE,  BLANK)))))) or</p> <p>(HESHEALTHYEAR = 2017-18 and  ((HESLEVEL = UG and  (HESTYPE = HOMEF, HOMENF and  (HESHEALTHPROF1 ≠ BLANK or  HESHEALTHPROF2 ≠ BLANK))) or  (HESLEVEL = PGT, UGF and  ((HESTYPE = HOMEF and  (HESHEALTHPROF1 = OCCTHE, OPDEPT,  ORTHOP, PHYSIO, RADDIA, RADTHE or  HESHEALTHPROF2 = OCCTHE, OPDEPT,  ORTHOP, PHYSIO, RADDIA, RADTHE)) or  (HESTYPE = HOMENF and  (HESHEALTHPROF1 ≠ DENHYG, DENTHE,  BLANK or  HESHEALTHPROF2 ≠ DENHYG, DENTHE,  BLANK)))))) or</p> <p>(HESHEALTHYEAR = 2018-19 and  ((HESLEVEL = UG and  (HESTYPE = HOMEF, HOMENF and  (HESHEALTHPROF1 ≠ BLANK or  HESHEALTHPROF2 ≠ BLANK))) or  (HESLEVEL = PGT, UGF and  (HESTYPE = HOMEF, HOMENF and  (HESHEALTHPROF1 ≠ DENHYG, DENTHE,  BLANK or  HESHEALTHPROF2 ≠ DENHYG, DENTHE,  BLANK)))))) or</p>

Value	Description	Definition
0	Otherwise	Otherwise

### HESEXCL1-512

37. In the HESES18B comparison technical document, (HESEXCL1 = 1) is defined as (HESEXCL\_P1 > 0), which indicates that one or more of the instance period exclusion fields for the first ranked instance period has a value of 1. Each of the instance period exclusion field values for the first ranked instance period is now recorded in a separate instance exclusion field. The fields correspond as follows: HESEXCL1\_P1 to HESEXCL2, HESEXCL2\_P1 to HESEXCL4, HESEXCL4\_P1 to HESEXCL16, HESEXCL8\_P1 to HESEXCL32, HESEXCL16\_P1 to HESEXCL64.
38. Four instance exclusion fields have been renamed. HESEXCL2 has been renamed HESEXCL1. HESEXCL4 has been renamed to create HESEXCL512. HESEXCL8 has been renamed to create HESEXCL128. HESEXCL16 has been renamed to create HESEXCL256.
39. The algorithm for HESEXCL512 (formerly HESEXCL4) has been changed to align as much as possible with the equivalent algorithm used for the 2019-20 HESA Student data. This algorithm would normally use FUNDCOMP to identify students who did not complete their year of instance, but due to the coronavirus pandemic we are not using this field for the 2019-20 data checking tool, and are instead using RSNEND as a proxy for FUNDCOMP.

Value	Description	Definition
1	Student who withdrew before 2 December 2019 or left within 14 days of starting the instance without completing	ENDDATE ≠ BLANK and (ENDDATE < 2 December 2019 or ENDDATE – COMDATE < 14) <b>and RSNEND ≠ 01, 98</b>
0	Otherwise	Otherwise

40. HESEXCL8 now indicates students explicitly excluded from the HESES population. This is made possible by the inclusion of FUNCLEV and FUNDCOMP in the 2019-20 HESA Student Alternative record.

Value	Description	Definition
1	<b>Student explicitly excluded from the HESES population</b>	<b>FUNCLEV = 99 or FUNDCOMP = 9</b>
0	<b>Otherwise</b>	<b>Otherwise</b>

### HESEXCL

41. The descriptions for (HESEXCL = 1, 2, 4, 8, 16) have been changed to match the descriptions for HESEXCL1-16.
42. Additional values have also been added so that it is possible to determine whether any of the new instance exclusion fields (HESEXCL32-512) has a value of 1.



Value	Description	Definition
1	<del>Student not active in academic year</del> No instance periods in the population	HESEXCL1 = 1
2	<del>NVQ, QTS only or visiting student</del> Student not active in academic year	HESEXCL2 = 1
4	<del>Student with no qualification aim</del> Student who withdrew before 2 December 2018 or left within 14 days of starting the instance	HESEXCL4 = 1
8	<del>Student explicitly excluded from the HESES population</del> Student with a total STULOAD of less than 3	HESEXCL8 = 1
16	<del>Student taught mostly outside of the UK</del> Student on a non-standard year of instance in their final year of study	HESEXCL16 = 1
<del>32</del>	<del>Student who is dormant, on sabbatical or writing up</del>	<del>HESEXCL32 = 1</del>
<del>64</del>	<del>Incoming exchange student</del>	<del>HESEXCL64 = 1</del>
<del>128</del>	<del>Student with a total STULOAD of less than 3</del>	<del>HESEXCL128 = 1</del>
<del>256</del>	<del>Student on non-standard year of instance in final year of study</del>	<del>HESEXCL256 = 1</del>
<del>512</del>	<del>Student who withdrew before 2 December 2019 or left within 14 days of starting the instance without completing</del>	<del>HESEXCL512 = 1</del>
0	Otherwise	None of the above

## HESOVER

43. Three values have been added to indicate when HESESFTE, HESLENGTH and HESHEALTHPROP1/2 have been overridden for the student.

Value	Description
<del>256</del>	<del>Override to HESESFTE</del>
<del>512</del>	<del>Override to HESLENGTH</del>
<del>1024</del>	<del>Override to HESHEALTHPROP1/2</del>

## HESES19 comparison workbook

44. The HESES19 comparison workbook 'HES19\_DCT\_XXXXXXXX.xlsx' (where XXXXXXXX denotes the UK Provider Reference Number, UKPRN) contains the worksheets shown in Table 1. Note that it is not possible to recreate Table 4 using 2019-20 HESA Student Alternative data. Consequently, no data relating to this table is shown in the HESES19 comparison workbook, and all figures calculated from 2019-20 HESA Student Alternative data in Table D are shown as zero.

**Table 1: Worksheets in the HESES19 comparison workbook**

Workbook tab*	Title
Information	Workbook information

<b>Workbook tab*</b>	<b>Title</b>
Key differences	Key differences between HESES19 and HESES19 recreated using 2019-20 HESA Student Alternative data
Rebuild information	Comparison of HESES19 and HESES19 recreated using 2019-20 HESA Student Alternative data, with rebuild instructions
1 Full-time	HESES19 recreation Table 1: Full-time counts of years of instance
2 Sandwich	HESES19 recreation Table 2: Sandwich year out counts of years of instance
3 Part-time	HESES19 recreation Table 3: Part-time counts of years of instance and full-time equivalent (FTE)
5 Planning	HESES19 recreation Table 5: Further student breakdowns for planning purposes
6a Health full-time	HESES19 recreation Table 6a: Full-time counts of years of instance on pre-registration health courses
6b Health sandwich	HESES19 recreation Table 6b: Sandwich year out counts of years of instance on pre-registration health courses
6c Health part-time	HESES19 recreation Table 6c: Part-time counts of years of instance and FTE on pre-registration health courses
h1 Full-time	HESES19 Table 1: Full-time counts of years of instance
h2 Sandwich	HESES19 Table 2: Sandwich year out counts of years of instance
h3 Part-time	HESES19 Table 3: Part-time counts of years of instance and FTE
h5 Planning	HESES19 Table 5: Further student breakdowns for planning purposes
h6a Health full-time	HESES19 Table 6a: Full-time counts of years of instance on pre-registration health courses
h6b Health sandwich	HESES19 Table 6b: Sandwich year out counts of years of instance on pre-registration health courses
h6c Health part-time	HESES19 Table 6c: Part-time counts of years of instance and FTE on pre-registration health courses
1 Full-time diff	Difference between HESES19 and HESES19 recreation Table 1: Full-time counts of years of instance
2 Sandwich diff	Difference between HESES19 and HESES19 recreation Table 2: Sandwich year out counts of years of instance
3 Part-time diff	Difference between HESES19 and HESES19 recreation Table 3: Part-time counts of years of instance and FTE

Workbook tab*	Title
5 Planning diff	Difference between HESES19 and HESES19 recreation Table 5: Further student breakdowns for planning purposes
6a Health full-time diff	Difference between HESES19 and HESES19 recreation Table 6a: Full-time counts of years of instance on pre-registration health courses
6b Health sandwich diff	Difference between HESES19 and HESES19 recreation Table 6b: Sandwich year out counts of years of instance on pre-registration health courses
6c Health part-time diff	Difference between HESES19 and HESES19 recreation Table 6c: Part-time counts of years of instance and FTE on pre-registration health courses
A Summary	2020-21 Grant tables Table A: 2020-21 Summary of allocations
B High-cost	2020-21 Grant tables Table B: 2020-21 High-cost subject funding
C NMAH supplement	2020-21 Grant tables Table C: 2020-21 Nursing, midwifery and allied health supplement
D Erasmus+	2020-21 Grant tables Table D: 2020-21 Erasmus+ and overseas study programmes
E Other high-cost TAs	2020-21 Grant tables Table E: 2020-21 Other high-cost targeted allocations
F Student access and success	2020-21 Grant tables Table F: 2020-21 Student access and success
G Parameters	2020-21 Grant tables Table H: 2020-21 Parameters in the funding models

\* Shading corresponds to the colour of the workbook tab.

45. The difference sheets (see worksheets ending in 'diff' in Table 1) will indicate where differences between the HESES19 recreation tables and the HESES19 tables exceed a given threshold. The size of this threshold can be altered by entering the required value where indicated on the worksheets. These sheets are to assist providers in reconciling differences between HESES19 data and HESES19 recreation data.
46. Providers are strongly encouraged to use the 'Rebuild information' worksheet in the 'HES19\_DCT\_XXXXXXXX.xlsx' workbook, which may highlight data quality issues relating to the HESA Student Alternative fields used in the HESES19 recreation algorithms.
47. Tables A (Estimated FTE for part-time OfS-fundable years of instance) and B (Estimate of load for part-time OfS-fundable years of instance) are no longer included in the workbook. These tables were used to assess the feasibility of using FTE estimated from instance period HESSTULOAD\_PX values to verify part-time OfS-fundable FTE submitted in HESES workbooks. The method of estimating FTE that was used to populate these tables, which included an estimation of the contribution from instance periods starting after the end of the reporting period, is now used to recreate Column 4a in Tables 3 and 6c.

48. The full-time equivalent (FTE) of a part-time year of instance is estimated from the HESSTULOAD\_PX values of all instance periods of the instance in the 2019-20 academic year that are not excluded by an instance period exclusion field. The HESPERIODSTART\_PX and HESPERIODEND\_PX dates of each instance period are categorised, and the categories are used to calculate the proportion of HESSTULOAD\_PX that can be attributed to the 2019-20 year of instance.

## HESES19 comparison individualised and instance period files

49. You should use the individualised file 'HES19\_DCT\_XXXXXXXXX\_IND.csv' and instance period file 'HES19\_DCT\_XXXXXXXXX\_INSTPER.csv' when working through this document. This shows the assignment of records to categories by our algorithms and, where applicable, provides the data that has been used to determine their exclusion from the relevant population.

50. The HESES19 comparison rebuild document provides instructions for rebuilding key figures in the workbook from the individualised file and the instance period file.

51. HESA Student Alternative fields used to generate the data in the output are listed in Table 2.

**Table 2: HESA Student Alternative fields used in the HESES19 comparison output**

Entity	Field	Description	Column in individualised file	Column in instance period file
Provider	UKPRN	UK Provider Reference Number	A	A
Course	COURSEAIM	General qualification aim of course	N/A	N/A
Course	REGBODY	Regulatory body	N/A	N/A
Course	TTCID	Teacher training course	N/A	N/A
Course subject	SBJCA	Subject of course	N/A	N/A
Course subject	SBJPCNT	Subject percentage	N/A	N/A
Student	HUSID	HESA unique student identifier	B	B
Student	OWNSTU	Provider's own identifier for student	D	D
Entry profile	DOMICILE	Domicile	AR	N/A
Instance	COMDATE	Start date of instance	AQ	F
Instance	ENDDATE	End date of instance	AS	G
Instance	FUNDCODE	Fundability code	AY	N/A
Instance	FUNDCOMP	Completion of year of instance	AZ	N/A
Instance	FUNDLEV	Level applicable to OfS HESES	BA	N/A
Instance	NUMHUS	Student instance identifier	C	C

Entity	Field	Description	Column in individualised file	Column in instance period file
Instance	OWNINST	Provider's own instance identifier	E	E
Instance	RSNEND	Reason for ending instance	CB	N/A
Instance	SPLNGTH	Expected length of study	CC	N/A
Instance	UNITLGTH	Units of length	CD	N/A
Instance period	COURSEID	Course identifier	N/A	N/A
Instance period	DISALL	Disabled student allowance	N/A	N/A
Instance period	EXCHIND	Exchange programmes	N/A	N/A
Instance period	INITIATIVES	Initiatives	N/A	N/A
Instance period	LOCSDY	Location of study	N/A	N/A
Instance period	MODE	Mode of study	N/A	N/A
Instance period	MSTUFEE	Major source of tuition fees	N/A	N/A
Instance period	PERIODEND	Instance period end date	N/A	N/A
Instance period	PERIODSTART	Instance period start date	N/A	N/A
Instance period	STULOAD	Student instance FTE	N/A	N/A
Instance period	YEARPRG	Year of course	N/A	N/A

## Instance period ranking

52. The number of instance periods that can be returned for a given instance is unbounded; however, due to file size considerations we restrict the number of separate instance periods displayed in the individualised file to three. In the unusual case where an instance has more than three instance periods, all will be considered in our algorithms, although only three will be displayed in the individualised file.
53. The instance period derived field HESEXCL\_PX (where X is the ranking of the instance period) determines whether or not an instance period is included in the HESES19 population. Instance periods are ranked by whether or not they are in the HESES19 population, then by descending HESPERIODSTART\_PX date. Thus, an instance period which is included in the population is always ranked higher than an excluded instance period, even if the excluded instance period has a later HESPERIODSTART\_PX date.

54. The data associated with the first ranked instance period is used to define the instance in the HESES19 population. Data for all instance periods is shown in the instance period file, but only data for the top three ranked instance periods is shown in the individualised file.

## Description of derived fields

55. Fields derived from HESA Student Alternative data are listed in Table 3.

**Table 3: HESES19 comparison derived fields**

Derived field name	Description	Para.	Column in individualised file	Column in instance period file
FTEA_EXCLEST, FTEB_EXCLEST, FTEC1_EXCLEST, FTEC2_EXCLEST, FTED_EXCLEST	Estimated FTE of the activity assigned to each price group, calculated using HESESFTE_EXCLEST	161	N/A	BK, BM, BO, BQ, BS
FTEA_INCLEST, FTEB_INCLEST, FTEC1_INCLEST, FTEC2_INCLEST, FTED_INCLEST	Estimated FTE of the activity assigned to each price group, calculated using HESESFTE_INCLEST	162	N/A	
HESANNIV	Anniversary of start date in current academic year	103	BB	H
HESANNIV20	Anniversary of start date in following academic year	104	BC	I
HESBROADLEVEL	Broad level of study	117	BD	N/A
HESCLIN	Price group A clinical medical, dental and veterinary science students	115	BE	N/A
HESCOL3	Contribution of year of instance to Column 3 of Tables 1-3	138	F	N/A
HESCOL3_PROFX	Contribution of activity in health profession to Column 3 of Tables 1-3 and Tables 6a-6c	136	L, M	N/A
HESCOL3_Y	Contribution of activity in price group to Column 3 of Tables 1-3	137	G, H, I, J, K	N/A
HESCOL4	Contribution of year of instance to Column 4 of Tables 1-3	141	N	J

Derived field name	Description	Para.	Column in individualised file	Column in instance period file
HESCOL4_PROFX	Contribution of activity in health profession to Column 4 of Tables 1-3 and Tables 6a-6c	139	T, U	P, Q
HESCOL4_Y	Contribution of activity in price group to Column 4 of Tables 1-3	140	O, P, Q, R, S	K, L, M, N, O
HESCOL4A	Estimated contribution to FTE for year of instance	163	V	BU
HESCOURSEAIM_PX	General qualification aim of course	57	CE, DL, ES	AI
HESCOURSEID_PX	Course identifier	58	CF, DM, ET	AJ
HESCRSELGTH	Expected length of the course in years	113	BF	N/A
HESDISALL	Disabled Students' Allowances	130	BG	N/A
HESDISALL_PX	Disabled Students' Allowances	59	CG, DN, EU	N/A
HESEC	Indicates whether student has a UK, other Home and EU, or other domicile	109	BH	N/A
HESENDCASE	Instance period end date category	85	N/A	AZ
HESENDDATE_AC19	2019-20 academic year end date	88	N/A	BC
HESENDDATE_IN18	2018-19 year of instance end date	86	N/A	BA
HESENDDATE_IN19	2019-20 year of instance end date	90	N/A	BE
HESESFTE_1	Estimated FTE in 2019-20 academic year for 2019-20 year of instance	91	N/A	BF
HESESFTE_2	Estimated FTE in 2020-21 academic year for 2019-20 year of instance	92	N/A	BG



Derived field name	Description	Para.	Column in individualised file	Column in instance period file
HESESFTE_3_IN18	Estimated FTE in 2019-20 academic year for 2018-19 year of instance from instance period starting on or after 1 August 2019	93	N/A	BH
HESESFTE_EXCLEST	Estimated FTE for 2019-20 year of instance, excluding any estimate for instance period starting on or after 1 August 2020	157	N/A	BI
HESESFTE_INCLEST	Estimated FTE for 2019-20 year of instance, including any estimate for instance period starting on or after 1 August 2020	158	N/A	BJ
HESEXCHIND_PX	Exchange programmes	60	CH, DO, EV	AK
HESEXCL	Reason(s) for exclusion from the HESES population	153	X	R
HESEXCL_PX	Reason(s) for exclusion of instance period	100	CI, DP, EW	AL
HESEXCL1-512	HESES population exclusions	143 -152	BI-BR	N/A
HESEXCL1-16_PX	Instance period exclusions	95 - 99	CJ-CN, DQ-DU, EX-FB	AM-AQ
HESHEALTHPOP	Identifies whether student is included in health population	129	Y	N/A
HESHEALTHPROF1-2	Identifies which nursing, midwifery or allied health professions the student is recorded against	107	Z-AA	N/A
HESHEALTHPROP1-2	Proportion of student's activity allocated to each health profession	126 - 127	AB-AC	N/A

Derived field name	Description	Para.	Column in individualised file	Column in instance period file
HESHEALTHYEAR	Indicates whether student started course in 2016-17, 2017-18, 2018-19, 2019-20 or another academic year	128	AD	N/A
HESINITIATIVES1-3_PX	Initiatives	61 - 63	CO-CQ, DV-DX, FC-FE	N/A
HESLENGTH	Long or standard length year of instance	112	AE	Y
HESLEVEL	Level of study	108	AF	Z
HESLOCSDY_PX	Location of study	64	CR, DY, FF	AR
HESMDV	Undergraduate clinical and pre-clinical medical, dental and veterinary science students	114	BS	N/A
HESMODE	Mode of study	106	AG	AA
HESMODE_PX	Mode of study	65	CS, DZ, FG	AS
HESMSTUFEE_PX	Major source of tuition fees	66	CT, EA, FH	AT
HESNCOMPLEVEL_Y	Level at which HESNCOMPRATE_Y is calculated for year of instance	132	FZ, GB, GD, GF, GH	N/A
HESNCOMPLEVEL_Z	Level at which HESNCOMPRATE_Z is calculated for year of instance	134	GJ, GL, GN, GP, GR, GT, GV, GX, GZ, HB, HD, HF, HH, HJ, HL, HN, HP, HR	N/A
HESNCOMPRATE_Y	Estimate of likelihood that activity in price group was not completed	133	GA, GC, GE, GG, GI	N/A
HESNCOMPRATE_Z	Estimate of likelihood that activity in health profession was not completed	135	GK, GM, GO, GQ, GS, GU, GW, GY, HA, HC, HE, HG, HI, HK, HM, HO, HQ, HS	N/A

Derived field name	Description	Para.	Column in individualised file	Column in instance period file
HESNEWENTRANT	Identifies whether student is a new entrant	124	AH	N/A
HESOVER	Primary derived field(s) being overridden	155	BT	N/A
HESPERIODEND_PX	Instance period end date	68	CV, EC, FJ	AV
HESPERIODNUM	Ranking of instance period	56	N/A	AW
HESPERIODSTART_PX	Instance period start date	67	CU, EB, FI	AU
HESPGR17	Number of PGR years of instance in 2017-18	122	BU	N/A
HESPGR18	Number of PGR years of instance in 2018-19	123	BV	
HESPGT17	Number of PGT years of instance in 2017-18	120	BW	N/A
HESPGT18	Number of PGT years of instance in 2018-19	121	BX	
HESPRGA, HESPRGB, HESPRGC1, HESPRGC2, HESPRGD	Proportion of countable year in each price group	116	AI-AM	AB-AF
HESREG	HESES Column 1 or 2 indicator	105	AN	AG
HESREGBODY1-2_PX	Regulatory body for health and social care students	69 - 70	CW-CX, ED-EE, FK-FL	N/A
HESRESSTAT	Fundability and residential status	111	AO	N/A
HESBJCA1-5_PX	Subject of course	71 - 75	Cy-DC, EF-EJ, FM-FQ	N/A
HESBJPCNT1-5_PX	Proportion of time allocated for each subject	76 - 80	DD-DH, EK-EO, FR-FV	N/A
HESSTARTCASE	Instance period start date category	84	N/A	AY
HESSTARTDATE_AC19	2019-20 academic year start date	87	N/A	BB
HESSTARTDATE_IN19	2019-20 year of instance start date	89	N/A	BD

Derived field name	Description	Para.	Column in individualised file	Column in instance period file
HESSTULOAD	Sum of FTE across all instance periods	131	BY	N/A
HESSTULOAD_PX	Student instance FTE	81	DI, EP, FW	AX
HESTTCID_PX	Teacher training course	82	DJ, EQ, FX	N/A
HESTYPE	Fundability status	110	AP	AH
HESUG17	Number of UG years of instance in 2017-18	118	BZ	N/A
HESUG18	Number of UG years of instance in 2018-19	119	CA	
HESYEARPRG_PX	Year of course	83	DK, ER, FY	N/A

## Instance period derived fields

### HESPERIODNUM

56. The value of HESPERIODNUM indicates the ranking of the instance period, with the first ranked instance period having a value of 1. The data associated with the first ranked instance period is used to define the instance in the HESES19 population. This field is only shown in the instance period file.

### HESCOURSEAIM\_PX

57. This field contains COURSEAIM for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

### HESCOURSEID\_PX

58. This field contains COURSEID for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

### HESDISALL\_PX

59. This field contains DISALL for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

### HESEXCHIND\_PX

60. This field contains EXCHIND for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

### **HESINITIATIVES1\_PX**

61. This field contains INITIATIVES1 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

### **HESINITIATIVES2\_PX**

62. This field contains INITIATIVES2 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

### **HESINITIATIVES3\_PX**

63. This field contains INITIATIVES3 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

### **HESLOCSDY\_PX**

64. This field contains LOCSDY for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

### **HESMODE\_PX**

65. This field contains MODE for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

### **HESMSTUFEE\_PX**

66. This field contains MSTUFEE for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

### **HESPERIODSTART\_PX**

67. This field contains PERIODSTART for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

### **HESPERIODEND\_PX**

68. This field contains PERIODEND for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

### **HESREGBODY1\_PX**

69. This field contains REGBODY1 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

## **HESREGBODY2\_PX**

70. This field contains REGBODY2 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

## **HESBJCA1\_PX**

71. This field contains SBJCA1 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

## **HESBJCA2\_PX**

72. This field contains SBJCA2 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

## **HESBJCA3\_PX**

73. This field contains SBJCA3 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

## **HESBJCA4\_PX**

74. This field contains SBJCA4 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

## **HESBJCA5\_PX**

75. This field contains SBJCA5 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

## **HESBJPCNT1\_PX**

76. This field contains SBJPCNT1 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

## **HESBJPCNT2\_PX**

77. This field contains SBJPCNT2 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

## **HESBJPCNT3\_PX**

78. This field contains SBJPCNT3 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

## HESBJPCNT4\_PX

79. This field contains SBJPCNT4 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

## HESBJPCNT5\_PX

80. This field contains SBJPCNT5 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

## HESSTULOAD\_PX

81. This field contains STULOAD for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

## HESSTCID\_PX

82. This field contains TTCID for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

## HESYEARPRG\_PX

83. This field contains YEARPRG for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

## HESSTARTCASE

84. This field categorises the instance period's start date (HESPERIODSTART\_PX) in relation to the 2019-20 academic year and the anniversary of the start date of the instance (COMDATE). If an instance period started up to 14 days before the anniversary of the start date of the instance, it is treated as if it started in the 2019-20 year of instance, provided that it did not end before the anniversary of the start date of the instance. This field is only shown in the instance period file.

Value	Description	Definition
1	Instance period started before 1 August 2019	HESPERIODSTART_PX < 1 August 2019
2	Instance period started on or after 1 August 2019, and before anniversary of start date (COMDATE)	(HESPERIODSTART_PX < HESANNIV – 14 or HESPERIODEND_PX < HESANNIV) and not above
3	Instance period started on or after anniversary of start date (COMDATE)	HESPERIODSTART_PX ≥ HESANNIV – 14 and not above

## HESENDCASE

85. This field categorises the instance period's end date (HESPERIODEND\_PX) in relation to the 2019-20 academic year and the anniversary of the start date of the instance (COMDATE). If an instance period ended up to 14 days after the anniversary, in the 2019-20 academic year, of

the start date of the instance, it is treated as if it ended in the 2018-19 year of instance, provided that it did not start after the anniversary of the start date of the instance. If an instance period ended up to 14 days after the anniversary, in the 2020-21 academic year, of the start date of the instance, it is treated as if it ended in the 2019-20 year of instance. This field is only shown in the instance period file.

Value	Description	Definition
1	Instance period ended before 1 August 2019	HESPERIODEND_PX < 1 August 2019
2	Instance period ended on or after 1 August 2019, and before anniversary of start date (COMDATE)	HESPERIODEND_PX < HESANNIV + 15 and HESPERIODSTART_PX < HESANNIV and not above
3	Instance period ended on or after anniversary of start date (COMDATE), and before 1 August 2020	HESPERIODEND_PX < 1 August 2020 and not above
4	Instance period ends on or after 1 August 2020, and before anniversary of start date (COMDATE) in following academic year	HESPERIODEND_PX < HESANNIV20 + 15 and not above
5	Instance period ends on or after anniversary of start date (COMDATE) in following academic year	HESPERIODEND_PX ≥ HESANNIV20 + 15

### HESENDDATE\_IN18

86. This field is the end date of the part of the instance period that occurred in the 2019-20 academic year for the year of instance that started in the 2018-19 academic year. This field is only shown in the instance period file.

Value	Description	Definition
HESPERIODEND_PX	Instance period ended on or after 1 August 2019, and before anniversary of start date (COMDATE)	HESENDCASE = 2
HESANNIV – 1	Instance period started before anniversary of start date (COMDATE), and ended on or after anniversary of start date	HESSTARTCASE = 1, 2 and HESENDCASE = 3, 4, 5
BLANK	Instance period started on or after anniversary of start date (COMDATE), or ended before 1 August 2019	Otherwise

### HESSTARTDATE\_AC19

87. This field is the start date of the part of the instance period that occurred in the 2019-20 academic year. This field is only shown in the instance period file.



Value	Description	Definition
01/08/2019	Instance period started before 1 August 2019, and ended on or after 1 August 2019	HESSTARTCASE = 1 and HESENDCASE = 2, 3, 4, 5
HESPERIODSTART_PX	Instance period started on or after 1 August 2019	HESSTARTCASE = 2, 3
BLANK	Instance period ended before 1 August 2019	Otherwise

### HESENDDATE\_AC19

88. This field is the end date of the part of the instance period that occurred in the 2019-20 academic year and in the 2019-20 year of instance. This field is only shown in the instance period file.

Value	Description	Definition
HESPERIODEND_PX	Instance period ended on or after anniversary of start date (COMDATE), and before 1 August 2020	HESENDCASE = 3
31/07/2020	Instance period ends on or after 1 August 2020	HESENDCASE = 4, 5
BLANK	Instance period ended before anniversary of start date (COMDATE)	Otherwise

### HESSTARTDATE\_IN19

89. This field is the start date of the part of the instance period that occurred in the 2019-20 year of instance. This field is only shown in the instance period file.

Value	Description	Definition
HESANNIV	Instance period started before anniversary of start date (COMDATE), and ends on or after anniversary of start date	HESSTARTCASE = 1, 2 and HESENDCASE = 3, 4, 5
HESPERIODSTART_PX	Instance period started on or after anniversary of start date (COMDATE)	HESSTARTCASE = 3
BLANK	Instance period ended before anniversary of start date (COMDATE)	Otherwise

### HESENDDATE\_IN19

90. This field is the end date of the part of the instance period that occurs in the 2020-21 academic year, but in the 2019-20 year of instance. This field is only shown in the instance period file.

Value	Description	Definition
HESPERIODEND_PX	Instance period ends on or after 1 August 2020, and before anniversary of start date (COMDATE) in following academic year	HESENDCASE = 4
HESANNIV20 – 1	Instance period ends on or after anniversary of start date (COMDATE) in following academic year	HESENDCASE = 5
BLANK	Instance period ended before 1 August 2020	Otherwise

### HESESFTE\_1

91. This field contains the estimated FTE for the part of the instance period that occurred in the 2019-20 academic year and the 2019-20 year of instance. This field is only shown in the instance period file.

Value	Description	Definition
$\frac{(((\text{HESENDDATE\_AC19} - \text{HESSTARTDATE\_IN19}) + 1) / ((\text{HESENDDATE\_AC19} - \text{HESSTARTDATE\_AC19}) + 1)) \times \text{HESSTULOAD\_PX}}$	Estimated FTE for 2019-20 year of instance between anniversary of start date (COMDATE) and 31 July 2020, inclusive	HESENDCASE = 3, 4, 5
0	No FTE because instance period ended before anniversary of start date (COMDATE)	Otherwise

### HESESFTE\_2

92. This field contains the estimated FTE for the part of the instance period that occurs in the 2020-21 academic year, but in the 2019-20 year of instance. This field is only shown in the instance period file.

Value	Description	Definition
$\frac{(((\text{HESENDDATE\_IN19} - 01/08/2020) + 1) / ((31/07/2020 - \text{HESSTARTDATE\_IN19}) + 1)) \times \text{HESESFTE\_1}}$	Estimated FTE for 2019-20 year of instance between 1 August 2020 and day before anniversary of start date (COMDATE) in following academic year, inclusive	HESENDCASE = 4, 5
0	No FTE because instance period ended before 1 August 2020	Otherwise

### HESESFTE\_3\_IN18

93. This field contains the estimated FTE for the part of the instance period that occurred in the 2019-20 academic year, but in the 2018-19 year of instance, for instance periods that started on or after 1 August 2019. This field is only shown in the instance period file.

Value	Description	Definition
HESSTULOAD_PX	Estimated FTE for 2018-19 year of instance between 1 August 2019 and day before anniversary of start date (COMDATE), inclusive, if instance period started on or after 1 August 2019 and ended before anniversary of start date	HESSTARTCASE = 2 and HESENCASE = 2
$((\text{HESENDDATE\_IN18} - \text{HESSTARTDATE\_AC19}) + 1) / ((\text{HESENDDATE\_AC19} - \text{HESSTARTDATE\_IN19}) + 1) \times \text{HESESFTE\_1}$	Estimated FTE for 2018-19 year of instance between 1 August 2019 and day before anniversary of start date (COMDATE), inclusive, if instance period started on or after 1 August 2019 and before anniversary of start date, and ended on or after anniversary of start date	HESSTARTCASE = 2 and HESENCASE = 3, 4, 5
0	No FTE because instance period started on or after anniversary of start date (COMDATE), or before 1 August 2019	Otherwise

## Instance period exclusions

94. Each instance period is assessed to determine whether it is included in the HESES19 population. The following derived fields explain the reasons for an instance period being excluded.

### HESEXCL1\_PX

95. Field indicating that a course aim of National Vocational Qualification (NVQ) or Qualified Teacher Status (QTS) only, or visiting students, is associated with the instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

Value	Description	Definition
1	NVQ or QTS only or visiting student course aim associated with the instance period	HESCOURSEAIM_PX = C43, E40, H43, H91, I71, I91, J43, J45, L91, M43, M45, M91
0	Otherwise	Otherwise

### HESEXCL2\_PX

96. Field indicating instance period with no qualification aim. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

Value	Description	Definition
1	No qualification aim associated with the instance period	HESCOURSEAIM_PX = C99, H99, I99, J99, M99
0	Otherwise	Otherwise

### HESEXCL4\_PX

97. Field indicating student is taught mostly outside of the UK for the instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

Value	Description	Definition
1	Student taught mostly outside the UK for the instance period	HESLOCSDY_PX = S and HESMSTUFEE_PX ≠ 02, 03, 04, 52, 53, 54
0	Otherwise	Otherwise

### HESEXCL8\_PX

98. Field indicating student is dormant, on sabbatical or writing up for the instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

Value	Description	Definition
1	Student who is dormant, on sabbatical or writing up for the instance period	HESMODE_PX = 43, 44 or HESSTULOAD_PX = 0
0	Otherwise	Otherwise

### HESEXCL16\_PX

99. Field indicating incoming exchange student for the instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

Value	Description	Definition
1	Incoming exchange student for the instance period	HESEXCHIND_PX = 1
0	Otherwise	Otherwise

### HESEXCL\_PX

100. This field indicates whether the instance period is included in the HESES19 population. For instance periods excluded from the population, HESEXCL\_PX contains the sum of all applicable values from the table below. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

Value	Description	Definition
1	NVQ or QTS only or visiting student course aim associated with the instance period	HESEXCL1_PX = 1
2	No qualification aim associated with the instance period	HESEXCL2_PX = 1
4	Student taught mostly outside the UK for the instance period	HESEXCL4_PX = 1
8	Student who is dormant, on sabbatical or writing up for the instance period	HESEXCL8_PX = 1
16	Incoming exchange student for the instance period	HESEXCL16_PX = 1
0	Otherwise	None of the above

101. This field contains the exclusion reason(s) for the instance period. It is calculated as  $(1 \times \text{HESEXCL1\_PX}) + (2 \times \text{HESEXCL2\_PX}) + \dots + (16 \times \text{HESEXCL16\_PX})$ . The reason(s) which contribute to the exclusion of an instance period can therefore be calculated. For example, if HESEXCL\_PX = 10, by subtracting figures from the above table and starting at the bottom, we see that the instance period is associated with a student who is dormant, on sabbatical or writing up (HESEXCL8\_PX = 1) and that there is no qualification aim associated with the instance period (HESEXCL2\_PX = 1).

## Instance derived fields

102. The instance period with (HESPERIODNUM = 1) is used in the algorithms for the instance derived fields. Some of these derived fields are shown in the instance period file as well as the individualised file; these are: HESANNIV, HESCOL4, HESCOL4\_A, HESCOL4\_B, HESCOL4\_C1, HESCOL4\_C2, HESCOL4\_D, HESCOL4\_PROFX, HESEXCL, HESHEALTHPOP, HESHEALTHPROF1-2, HESHEALTHYEAR, HESLENGTH, HESLEVEL, HESMODE, HESREG and HESTYPE.

### HESANNIV

103. This field contains the anniversary of the start date (COMDATE) in the current academic year.

### HESANNIV20

104. This field contains the anniversary of the start date (COMDATE) in the following academic year. This field is only shown in the instance period file.

### HESREG

105. This field assigns students to Column 1 or 2 of Tables 1 to 3 of the HESES recreation.

Value	Description	Definition
1	Column 1 student	HESANNIV < 2 December 2019
2	Column 2 student	Otherwise

## HESMODE

106. This field allocates students to a mode of study.

Value	Description	Definition
FTS	Full-time	HESMODE_P1 = 01 or (HESMODE_P1 = 23, 24 and HESLOCSDY_P1 ≠ D)
SWOUT	Sandwich year out	HESMODE_P1 = 23, 24 and HESLOCSDY_P1 = D
PT	Part-time	Otherwise

## HESHEALTHPROF1-2

107. These fields identify the profession(s) of a nursing, midwifery and allied health course.

Value	Description	Definition
DENTHE	Dental therapy	HESREGBODYX_P1 = 36
DENHYG	Dental hygiene	HESREGBODYX_P1 = 37
DIETET	Dietetics	HESREGBODYX_P1 = 44
NURSUN	Nursing - unclassified	HESREGBODYX_P1 = 06
NURSAD	Nursing - adult	HESREGBODYX_P1 = 61
NURSCH	Nursing - children	HESREGBODYX_P1 = 62
NURSLD	Nursing - learning disability	HESREGBODYX_P1 = 63
NURSMH	Nursing - mental health	HESREGBODYX_P1 = 64
MIDWIF	Midwifery	HESREGBODYX_P1 = 65
OCCTHE	Occupational therapy	HESREGBODYX_P1 = 46
OPDEPT	Operating department practice	HESREGBODYX_P1 = 47
ORTHOP	Orthoptics	HESREGBODYX_P1 = 48
ORTPRO	Orthotics and prosthetics	HESREGBODYX_P1 = 52
PHYSIO	Physiotherapy	HESREGBODYX_P1 = 50
PODCHI	Podiatry	HESREGBODYX_P1 = 42
RADTHE	Radiography (therapeutic)	HESREGBODYX_P1 = 56
RADDIA	Radiography (diagnostic)	HESREGBODYX_P1 = 57
SPELAN	Speech and language therapy	HESREGBODYX_P1 = 55
BLANK	Otherwise	Otherwise

## HESLEVEL

108. This field allocates students to a level of study.

Value	Description	Definition
UG	Undergraduate	FUNDLEV = 10, 11
PGT_UGF	Postgraduate taught and eligible under the undergraduate student support regime	FUNDLEV = 20, 21 and (HESTTCID_P1 = 1, 2, Q or HESCOURSEAIM_P1 = H88 or (HESCOURSEAIM_P1 = M88 and HESINITIATIVES1_P1 ≠ U and HESINITIATIVES2_P1 ≠ U and HESINITIATIVES3_P1 ≠ U) or (HESCOURSEAIM_P1 = M16, M86, H62 and (HESHEALTHPROF1 ≠ BLANK or HESHEALTHPROF2 ≠ BLANK)))
PGT_ML	Postgraduate taught course eligible for masters' loans	FUNDLEV = 20, 21 and (HESCOURSEAIM_P1 = M00, M01, M10, M11, M88 or (HESCOURSEAIM_P1 = M16 and HESHEALTHPROF1 = BLANK and HESHEALTHPROF2 = BLANK)) and (HESINITIATIVES1_P1 = U or HESINITIATIVES2_P1 = U or HESINITIATIVES3_P1 = U)
PGT_OTH	Postgraduate taught course that does not fall under the previous two categories	FUNDLEV = 20, 21 and not above
PGR	Postgraduate research	FUNDLEV = 30, 31

## HESEC

109. This field indicates whether a student has a UK, other Home and EU, or other domicile.

Value	Description	Definition
UK	UK-domiciled	DOMICILE = XF, XG, XH, XI, XK
OEU	Other Home and EU domiciled	DOMICILE = AI, AN, AT, AW, AX, BE, BG, BL, BM, BQ, CH, CW, CZ, DE, DK, EE, ES, EU, FI, FK, FO, FR, GF, GI, GL, GP, GR, GS, HR, HU, IC, IE, IS, IT, KY, LI, LT, LU, LV, MF, MQ, MS, MT, NC, NL, NO, PF, PL, PM, PN, PT, RE, RO, SE, SH, SI, SK, SX, TC, VG, WF, XA, YT
OTHER	Otherwise	Otherwise

## HESTYPE

110. This field allocates students to the three categories of fundability and residential status.

Value	Description	Definition
HOMENF	Home and EU non-fundable	(FUNDCODE = 1 and FUNDLEV = 30, 31) or (FUNDCODE = 2, 5, 7 and HESEC = UK, OEU)
HOMEF	Home and EU fundable	FUNDCODE = 1 and not above

Value	Description	Definition
ISOV	Island and overseas	Otherwise

## HESRESSTAT

111. This field allocates students to the five categories of fundability and residential status.

Value	Description	Definition
HOMEF_UK	Fundable, UK-domiciled	HESTYPE = HOMEF and DOMICILE = XF, XG, XH, XI, XK
HOMEF_OTH	Fundable, other Home and EU	HESTYPE = HOMEF and not above
HOMENF_UK	Non-fundable, UK-domiciled	HESTYPE = HOMENF and DOMICILE = XF, XG, XH, XI, XK
HOMENF_OTH	Non-fundable, other Home and EU	HESTYPE = HOMENF and not above
ISOV	Island and overseas	HESTYPE = ISOV

## HESLENGTH

112. This field indicates whether the student is on a standard or long year of instance.

Value	Description	Definition
L	Long	FUNDLEV = 11, 21, 31
S	Standard	Otherwise

## HESCRSELGTH

113. This field contains the expected length of the course in whole numbers of years. Expected course lengths that contain a fraction of a year that exceeds two weeks are rounded up to the next whole year. Otherwise the value is rounded down to the nearest whole year, except where the expected course length is less than one year – such expected course lengths will be rounded up to one year.. For example, an expected length of course that is one year and three weeks will be rounded up to two years. An expected length of course that is one year and one week will be rounded down to one year.

Value	Definition
SPLNGTH	UNITLGTH = 1
SPLNGTH / 12	UNITLGTH = 2
SPLNGTH / 52	UNITLGTH = 3
6	UNITLGTH = 9
1	Otherwise

## HESMDV

114. This field identifies undergraduate pre-clinical and clinical medicine, dentistry and veterinary science students.



Value	Description	Definition
UMED	Undergraduate pre-clinical or clinical medicine student	HESLEVEL = UG and HESCOURSEAIM_P1 = H16, I16, M26 and HESREGBODY1_P1 = 01
UDEN	Undergraduate pre-clinical or clinical dentistry student	HESLEVEL = UG and HESCOURSEAIM_P1 = H16, I16, M26 and HESREGBODY1_P1 = 30
UVET	Undergraduate pre-clinical or clinical veterinary science student	HESLEVEL = UG and HESCOURSEAIM_P1 = H16, I16, M26 and HESREGBODY1_P1 = 14
OTH	Otherwise	Otherwise

## HESCLIN

115. This field identifies clinical medicine, dentistry and veterinary science students who are assigned to price group A.

Value	Description	Definition
1	Undergraduate clinical medicine, dentistry or veterinary science student assigned to price group A	(HESMDV = UMED and (HESCRSELGTH – HESYEARPRG_P1) = 0, 1, 2) or (HESMDV = UDEN and (HESCRSELGTH – HESYEARPRG_P1) = 0, 1, 2, 3) or (HESMDV = UVET and (HESCRSELGTH – HESYEARPRG_P1) = 0, 1, 2, 3, 4)
2	Postgraduate clinical medicine or dentistry student assigned to price group A	HESLEVEL = PGR, PGT_ML, PGT_OTH, PGT_UGF and (HESSBJCA1_P1 = 100266, 100267, 100494 or HESSBJCA2_P1 = 100266, 100267, 100494 or HESSBJCA3_P1 = 100266, 100267, 100494 or HESSBJCA4_P1 = 100266, 100267, 100494 or HESSBJCA5_P1 = 100266, 100267, 100494)
3	Postgraduate clinical veterinary science student assigned to price group A	HESLEVEL = PGR, PGT_ML, PGT_OTH, PGT_UGF and (HESSBJCA1_P1 = 100531, 101347 or HESSBJCA2_P1 = 100531, 101347 or HESSBJCA3_P1 = 100531, 101347 or HESSBJCA4_P1 = 100531, 101347 or HESSBJCA5_P1 = 100531, 101347)
0	Otherwise	Otherwise

## HESPRGA, HESPRGB, HESPRGC1, HESPRGC2, HESPRGD

116. The proportion of activity in each price group. The Common Aggregation Hierarchy (CAH) codes listed include all sub-levels, unless otherwise stated.

Field name	Definition	Value
HESPRGC2	HESMODE = SWOUT	1

Field name	Definition	Value
HESPRGA	HESCLIN = 1, 2, 3 or (HESCOURSEAIM_P1 = H16, H62, I16, J26, M16, M26, M86 and (HESHEALTHPROF1 = DENHYG, DENTHE or HESHEALTHPROF2 = DENHYG, DENTHE)) and not above	1
HESPRGB	HESCOURSEAIM_P1 = H16, H62, I16, J26, M16, M26, M86 and (HESHEALTHPROF1 = DIETET, MIDWIF, OCCTHE, OPDEPT, ORTHOP, ORTPRO, PHYSIO, PODCHI, RADTHE, RADDIA, SPELAN or HESHEALTHPROF2 = DIETET, MIDWIF, OCCTHE, OPDEPT, ORTHOP, ORTPRO, PHYSIO, PODCHI, RADTHE, RADDIA, SPELAN) and not above	1
HESPRGC1	HESCOURSEAIM_P1 = H16, H62, I16, J26, M16, M26, M86 and (HESHEALTHPROF1 = NURSUN, NURSAD, NURSCH, NURSLD, NURSMH or HESHEALTHPROF2 = NURSUN, NURSAD, NURSCH, NURSLD, NURSMH) and not above	1
HESPRGC2	HESTTCID_P1 = 1, 2, 5, Q or HESREGBODY1_P1 = 54 or HESREGBODY2_P1 = 54 and not above	1
HESPRGB	HESSBJCAX_P1 corresponds to one of the following Common Aggregation Hierarchy codes:  CAH01, CAH02-02, CAH02-05, CAH02-06-01, CAH02-06-02, CAH02-06-03, CAH02-06-06 (only when HESSBJCAX_P1 = 100241, 100243), CAH03-01-01, CAH03-01-02, CAH03-01-03, CAH03-01-04, CAH03-01-05, CAH03-01-06, CAH03-01-07, CAH03-01-08, CAH03-01-10, CAH05, CAH06-01-01, CAH06-01-02, CAH06-01-03, CAH06-01-05, CAH06-01-07, CAH07, CAH10-01-01, CAH10-01-02, CAH10-01-03 (only when HESSBJCAX_P1 = 100152, 100170, 100193, 100201, 100202, 100205, 100206, 100209, 100211, 101397, 101398), CAH10-01-04, CAH10-01-05, CAH10-01-06, CAH10-01-07 (only when HESSBJCAX_P1 = 100120, 100148, 100153, 100154, 100156, 100157, 100180, 100551, 100565), CAH10-01-08, CAH10-01-09, CAH10-01-10, CAH10-03-01, CAH10-03-02, CAH10-03-03, CAH10-03-04, CAH10-03-05, CAH10-03-06 (only when HESSBJCAX_P1 = 100186, 100222, 100230, 100560, 101356), CAH10-03-07, CAH15-01-04 (only when HESSBJCAX_P1 = 101218), CAH26-01-04, CAH26-01-06  and not above	Sum of HESSBJPCNT1_P1, HESSBJPCNT2_P1, HESSBJPCNT3_P1, HESSBJPCNT4_P1, HESSBJPCNT5_P1 divided by 100

Field name	Definition	Value
HESPRGC1	<p>HESBJCAX_P1 corresponds to one of the following Common Aggregation Hierarchy codes:</p> <p>CAH10-01-03 (only when HESBJCAX_P1 = 100109, 100110), CAH11, CAH20-01-03, CAH24-01-01, CAH24-01-03, CAH24-01-04, CAH24-01-05, CAH25, CAH26-01-05 (only when HESBJCAX_P1 = 100369)</p> <p>and not above</p>	Sum of HESBJPCNT1_P1, HESBJPCNT2_P1, HESBJPCNT3_P1, HESBJPCNT4_P1, HESBJPCNT5_P1 divided by 100
HESPRGC2	<p>HESBJCAX_P1 corresponds to one of the following Common Aggregation Hierarchy codes:</p> <p>CAH02-04, CAH02-06-04, CAH02-06-05, CAH02-06-06 (only when HESBJCAX_P1 = 100233, 100234, 100235, 100236, 100237, 100239, 100242, 100253, 100739, 101241, 101340, 101375), CAH02-06-07, CAH03-01-09, CAH03-02, CAH04, CAH06-01-06, CAH06-01-08, CAH09, CAH10-01-03 (only when HESBJCAX_P1 = 100213), CAH10-01-07 (only when HESBJCAX_P1 = 100219, 100548, 100549, 101048), CAH10-03-06 (only when HESBJCAX_P1 = 100093), CAH13, CAH15-04-03, CAH17-01-06, CAH19-04-01, CAH19-04-02, CAH19-04-03, CAH19-04-04, CAH19-04-05, CAH19-04-06, CAH19-04-07, CAH19-04-09, CAH26-01-01, CAH26-01-02, CAH26-01-03, CAH26-01-05 (only when HESBJCAX_P1 = 101056)</p> <p>and not above</p>	Sum of HESBJPCNT1_P1, HESBJPCNT2_P1, HESBJPCNT3_P1, HESBJPCNT4_P1, HESBJPCNT5_P1 divided by 100
HESPRGD	<p>HESBJCAX_P1 corresponds to one of the following Common Aggregation Hierarchy codes:</p> <p>CAH06-01-04, CAH15-01-01, CAH15-01-02, CAH15-01-03, CAH15-01-04 (only when HESBJCAX_P1 = 100436, 100437, 100663), CAH15-01-05, CAH15-01-06, CAH15-02, CAH15-03, CAH15-04-01, CAH15-04-02, CAH16, CAH17-01-01, CAH17-01-02, CAH17-01-03, CAH17-01-04, CAH17-01-05, CAH17-01-07, CAH17-01-08, CAH17-01-09, CAH19-01, CAH19-02, CAH19-04-08, CAH20-01-01, CAH20-01-02, CAH20-01-04, CAH20-01-05, CAH20-02, CAH22, CAH23, CAH24-01-02</p> <p>and not above</p>	Sum of HESBJPCNT1_P1, HESBJPCNT2_P1, HESBJPCNT3_P1, HESBJPCNT4_P1, HESBJPCNT5_P1 divided by 100

## HESBROADLEVEL

117. This field shows the broad level of study in 2019-20 for the purpose of determining new entrant status.

Value	Description	Definition
UG	Undergraduate	HESLEVEL = UG

Value	Description	Definition
PGT	Postgraduate taught	HESLEVEL = PGT_UGF, PGT_ML, PGT_OTH
PGR	Postgraduate research	HESLEVEL = PGR

### HESUG17

118. This field indicates how many undergraduate taught years of instance for a higher education course recognised for OfS funding purposes were associated with the UKPRN and HUSID in the 2017-18 HESA AP Student record (HESLEVEL in 2017-18 = UG). This field will be blank if no HESA AP Student data is available for the provider in 2017-18.

### HESUG18

119. This field indicates how many undergraduate taught years of instance for a higher education course recognised for OfS funding purposes were associated with the UKPRN and HUSID in the 2018-19 HESA AP Student record (HESLEVEL in 2018-19 = UG). This field will be blank if no HESA AP Student data is available for the provider in 2018-19.

### HESPGT17

120. This field indicates how many postgraduate taught years of instance for a higher education course recognised for OfS funding purposes were associated with the UKPRN and HUSID in the 2017-18 HESA AP Student record (HESLEVEL in 2017-18 = PGT\_ML, PGT\_OTH, PGT\_UGF). This field will be blank if no HESA AP Student data is available for the provider in 2017-18.

### HESPGT18

121. This field indicates how many postgraduate taught years of instance for a higher education course recognised for OfS funding purposes were associated with the UKPRN and HUSID in the 2018-19 HESA AP Student record (HESLEVEL in 2018-19 = PGT\_ML, PGT\_OTH, PGT\_UGF). This field will be blank if no HESA AP Student data is available for the provider in 2018-19.

### HESPGR17

122. This field indicates how many postgraduate research taught years of instance for a higher education course recognised for OfS funding purposes were associated with the UKPRN and HUSID in the 2017-18 HESA AP Student record (HESLEVEL in 2017-18 = PGR). This field will be blank if no HESA AP Student data is available for the provider in 2017-18.

### HESPGR18

123. This field indicates how many postgraduate research taught years of instance for a higher education course recognised for OfS funding purposes were associated with the UKPRN and HUSID in the 2018-19 HESA AP Student record (HESLEVEL in 2018-19 = PGR). This field will be blank if no HESA AP Student data is available for the provider in 2018-19.

### HESNEWENTRANT

124. This field indicates whether the student is a new entrant.

Value	Description	Definition
1	Has not been active at the same broad level at the registering provider in either of the two previous academic years, linked by UKPRN and HUSID	COMDATE > 31 July 2019 and HESEXCL = 0 and ((HESBROADLEVEL = UG and HESUG17 = 0, BLANK and HESUG18 = 0, BLANK) or (HESBROADLEVEL = PGT and HESPGT17 = 0, BLANK and HESPGT18 = 0, BLANK) or (HESBROADLEVEL = PGR and HESPGR17 = 0, BLANK and HESPGR18 = 0, BLANK))
0	Otherwise	Otherwise

125. Where a student starts more than one instance at the same broad level in the same academic year and could be considered as a new entrant for each instance they will be recorded as a new entrant for only one. If one such instance has an earlier start date than the others the student will be recorded as a new entrant for that instance.

### HESHEALTHPROP1

126. This field shows the proportion of the student's activity that is allocated to the health profession shown in HESHEALTHPROF1.

Value	Definition
1	(HESHEALTHPROF1 ≠ BLANK and HESHEALTHPROF2 = BLANK) or HESHEALTHPROF1 = DENTHE
0.5	HESHEALTHPROF1 ≠ BLANK and HESHEALTHPROF2 ≠ BLANK, DENTHE and not above
0	Otherwise

### HESHEALTHPROP2

127. This field shows the proportion of the student's activity that is allocated to the health profession shown in HESHEALTHPROF2.

Value	Definition
1	(HESHEALTHPROF1 = BLANK and HESHEALTHPROF2 ≠ BLANK) or HESHEALTHPROF2 = DENTHE
0.5	HESHEALTHPROF1 ≠ BLANK, DENTHE and HESHEALTHPROF2 ≠ BLANK and not above
0	Otherwise

### HESHEALTHYEAR

128. This field identifies whether the student started their course in 2016-17, 2017-18, 2018-19, 2019-20 or another academic year.

Value	Description	Definition
2019-20	Student started in the 2019-20 academic year	COMDATE > 31 July 2019 and COMDATE < 1 August 2020
2018-19	Student started in the 2018-19 academic year	COMDATE > 31 July 2018 and COMDATE < 1 August 2019
2017-18	Student started in the 2017-18 academic year	COMDATE > 31 July 2017 and COMDATE < 1 August 2018
2016-17	Student started in the 2016-17 academic year	COMDATE > 31 July 2016 and COMDATE < 1 August 2017
OTHER	Otherwise	Otherwise

## HESHEALTHPOP

129. This field identifies students that will be included in Tables 6a, 6b and 6c. The population is defined in the HES19 guidance (Annex L, paragraph 3).

Value	Description	Definition
1	Included in Tables 6a, 6b and 6c	HESEXCL = 0 and HESCOURSEAIM_P1 = H16, H62, I16, J26, M16, M26, M86 and HESLEVEL = UG, PGT_UGF and HESTYPE = HOMEF, HOMENF and (HESHEALTHPROF1 ≠ BLANK or HESHEALTHPROF2 ≠ BLANK)
0	Otherwise	Otherwise

## HESDISALL

130. This field indicates whether the student is receiving Disabled Students' Allowances.

Value	Description	Definition
1	Student is receiving Disabled Students' Allowances	At least one HESDISALL_PX <sup>†</sup> = 4
0	Otherwise	Otherwise

<sup>†</sup> This refers to all instance periods beyond the three that are shown.

## HESSTULOAD

131. This field is the sum of all values in HESSTULOAD\_PX, across all instance periods.

## Recreating Columns 3 and 4

### HESNCOMPLEVEL\_Y

132. These fields identify the level at which HESNCOMPRATE\_Y (where Y is each price group) is calculated for the year of instance.

Value	Description	Definition
BLANK	There is no activity in the price group for this instance in the 2019-20 HESA Student Alternative data.	HESPRGY = 0

Value	Description	Definition
BLANK	There is activity in the price group for this instance in the 2019-20 HESA Student Alternative data, but the year of instance is included in Tables 6a-6c of the HESES19 recreation.	HESPRGY > 0 and HESHEALTHPOP = 1
1	More than 9 years of instance in Columns 1 and 2 of Tables 1, 2 and 3 (excluding those also included in Tables 6a, 6b and 6c) in HESES19 for this provider with the same mode, level, residential and fundability status, price group and length, and not above.	HESPRGY > 0 and HESHEALTHPOP = 0
2	More than 9 years of instance in Columns 1 and 2 of Tables 1, 2 and 3 (excluding those also included in Tables 6a, 6b and 6c) in HESES19 for this provider with the same mode, level, residential and fundability status, and price group, and not above.	HESPRGY > 0 and HESHEALTHPOP = 0
3	More than 9 years of instance in Columns 1 and 2 of Tables 1, 2 and 3 (excluding those also included in Tables 6a, 6b and 6c) in HESES19 for this provider with the same mode and level, and not above.	HESPRGY > 0 and HESHEALTHPOP = 0
4	More than 9 years of instance in Columns 1 and 2 of Tables 1, 2 and 3 (excluding those also included in Tables 6a, 6b and 6c) in HESES19 for this provider with the same mode, and not above.	HESPRGY > 0 and HESHEALTHPOP = 0
5	Otherwise	HESPRGY > 0 and HESHEALTHPOP = 0

## HESNCOMPRATE\_Y

133. These fields show an estimate of the likelihood that the activity in each price group (Y = A, B, C1, C2, D) was not completed. Each estimate is based on a non-completion rate taken from HESES19 at the appropriate level as identified in HESNCOMPLEVEL\_Y. This rate is calculated as follows:  $(-1 \times \text{Column 3}) \div (\text{Column 1} + \text{Column 2})$ .

Value	Definition
BLANK	HESNCOMPLEVEL_Y = BLANK
Calculated from years of instance in Tables 1, 2 and 3 (excluding those also included in Tables 6a, 6b and 6c) of HESES19 for this provider with the same mode, level, residential and fundability status, price group and length.	HESNCOMPLEVEL_Y = 1
Calculated from years of instance in Tables 1, 2 and 3 (excluding those also included in Tables 6a, 6b and 6c) of HESES19 for this provider with the same mode, level, residential and fundability status, and price group.	HESNCOMPLEVEL_Y = 2
Calculated from years of instance in Tables 1, 2 and 3 (excluding those also included in Tables 6a, 6b and 6c) of HESES19 for this provider with the same mode and level.	HESNCOMPLEVEL_Y = 3
Calculated from years of instance in Tables 1, 2 and 3 (excluding those also included in Tables 6a, 6b and 6c) of HESES19 for this provider with the same mode.	HESNCOMPLEVEL_Y = 4



Value	Definition
Calculated from years of instance in Tables 1, 2 and 3 (excluding those also included in Tables 6a, 6b and 6c) of HESES19 for this provider.	HESNCOMPLEVEL_Y = 5

### HESNCOMPLEVEL\_Z

134. These fields identify the level at which HESNCOMPRATE\_Z (Z = HESHEALTHPROFX) is calculated for the year of instance.

Value	Description	Definition
BLANK	The year of instance is not included in Tables 6a-6c of the HESES19 recreation.	HESHEALTHPOP = 0
BLANK	The year of instance is included in Tables 6a-6c of the HESES19 recreation, but there is no activity in the profession for this instance in the 2019-20 HESA Student Alternative data.	HESHEALTHPOP = 1 and (HESHEALTHPROFX ≠ Z or (HESHEALTHPROFX = Z and HESHEALTHPROPX = 0))
1	More than 9 years of instance in Columns 1 and 2 of Tables 6a, 6b and 6c in HESES19 for this provider with the same mode, profession, residential and fundability status, and level, and not above.	HESHEALTHPOP = 1 and (HESHEALTHPROFX = Z and HESHEALTHPROPX ≠ 0)
2	More than 9 years of instance in Columns 1 and 2 of Tables 6a, 6b and 6c in HESES19 for this provider with the same mode, profession, and residential and fundability status, and not above.	HESHEALTHPOP = 1 and (HESHEALTHPROFX = Z and HESHEALTHPROPX ≠ 0)
3	More than 9 years of instance in Columns 1 and 2 of Tables 6a, 6b and 6c in HESES19 for this provider with the same mode and profession, and not above.	HESHEALTHPOP = 1 and (HESHEALTHPROFX = Z and HESHEALTHPROPX ≠ 0)
4	More than 9 years of instance in Columns 1 and 2 of Tables 6a, 6b and 6c in HESES19 for this provider with the same mode, and not above.	HESHEALTHPOP = 1 and (HESHEALTHPROFX = Z and HESHEALTHPROPX ≠ 0)
5	Otherwise	HESHEALTHPOP = 1 and (HESHEALTHPROFX = Z and HESHEALTHPROPX ≠ 0)

### HESNCOMPRATE\_Z

135. These fields show an estimate of the likelihood that the activity in each health profession (Z = HESHEALTHPROFX) was not completed. Each estimate is based on a non-completion rate taken from HESES19 at the appropriate level as identified in HESNCOMPLEVEL\_Z. This rate is calculated as follows:  $(-1 \times \text{Column 3}) \div (\text{Column 1} + \text{Column 2})$ .

Value	Definition
BLANK	HESNCOMPLEVEL_Z = BLANK
Calculated from years of instance in Tables 6a, 6b and 6c of HESES19 for this provider with the same mode, profession, residential and fundability status, and level.	HESNCOMPLEVEL_Z = 1



Value	Definition
Calculated from years of instance in Tables 6a, 6b and 6c of HESES19 for this provider with the same mode, profession, and residential and fundability status.	HESNCOMPLEVEL_Z = 2
Calculated from years of instance in Tables 6a, 6b and 6c of HESES19 for this provider with the same mode and profession.	HESNCOMPLEVEL_Z = 3
Calculated from years of instance in Tables 6a, 6b and 6c of HESES19 for this provider with the same mode.	HESNCOMPLEVEL_Z = 4
Calculated from years of instance in Tables 6a, 6b and 6c of HESES19 for this provider.	HESNCOMPLEVEL_Z = 5

### HESCOL3\_PROFX

136. These fields show the contribution of the activity in each health profession (X = 1, 2; Z = HESHEALTHPROFX) to Column 3 of Tables 1-3 and Tables 6a-6c of the HESES19 recreation. Note that HESCOL3\_PROF1 is the contribution for HESHEALTHPROF1, and HESCOL3\_PROF2 is the contribution for HESHEALTHPROF2.

Value	Description	Definition
BLANK	The year of instance is not included in Tables 6a-6c of the HESES19 recreation.	HESHEALTHPOP = 0
0	The year of instance is included in Tables 6a-6c of the HESES19 recreation, but a profession is not recorded, or there is no activity in the profession.	HESHEALTHPOP = 1 and (HESHEALTHPROFX = BLANK or HESNCOMPRATE_Z = BLANK)
HESHEALTHPROPX × HESNCOMPRATE_Z	The contribution of the activity in the profession to Column 3 of Tables 1-3 and Tables 6a-6c of the HESES19 recreation.	HESNCOMPRATE_Z ≠ BLANK

### HESCOL3\_Y

137. These fields show the contribution of the activity in each price group (Y = A, B, C1, C2, D) to Column 3 of Tables 1-3 of the HESES19 recreation. (For years of instance included in Tables 6a-6c, they also show the contribution of the activity in each price group to Column 3 of Tables 6a-6c of the HESES19 recreation).

Value	Description	Definition
0	There is no activity in the price group for this instance.	HESPRGY = 0
HESPRGY × HESNCOMPRATE_Y	The contribution of the activity in the price group to Column 3 of Tables 1-3 of the HESES19 recreation, where the year of instance is not included in Tables 6a-6c of the HESES19 recreation.	HESPRGY > 0 and HESHEALTHPOP = 0

Value	Description	Definition
HESCOL3_PROF1 + HESCOL3_PROF2	The contribution of the activity in the price group to Column 3 of Tables 1-3 of the HESES19 recreation, where the year of instance is included in Tables 6a-6c of the HESES19 recreation.	HESPRGY > 0 and HESHEALTHPOP = 1

### HESCOL3

138. This field shows the contribution of the year of instance to Column 3 of Tables 1-3 of the HESES19 re-creation. It is the sum of HESCOL3\_A, HESCOL3\_B, HESCOL3\_C1, HESCOL3\_C2 and HESCOL3\_D.

### HESCOL4\_PROFX

139. These fields show the contribution of the activity in each health profession (X = 1, 2; Z = HESHEALTHPROFX) to Column 4 of Tables 1-3 and Tables 6a-6c of the HESES19 recreation. Note that HESCOL3\_PROF1 is the contribution for HESHEALTHPROF1, and HESCOL3\_PROF2 is the contribution for HESHEALTHPROF2.

Value	Description	Definition
BLANK	The year of instance is not included in Tables 6a-6c of the HESES19 recreation.	HESHEALTHPOP = 0
0	The year of instance is included in Tables 6a-6c of the HESES19 recreation, but a profession is not recorded, or there is no activity in the profession.	HESHEALTHPOP = 1 and (HESHEALTHPROFX = BLANK or HESNCOMPRATE_Z = BLANK)
HESHEALTHPROFX × (1 – HESNCOMPRATE_Z)	The contribution of the activity in the profession to Column 4 of Tables 1-3 and Tables 6a-6c of the HESES19 recreation.	HESNCOMPRATE_Z ≠ BLANK

### HESCOL4\_Y

140. These fields show the contribution of the activity in each price group (Y = A, B, C1, C2, D) to Column 4 of Tables 1-3 of the HESES19 recreation. (For years of instance included in Tables 6a-6c, they also show the contribution of the activity in each price group to Column 4 of Tables 6a-6c of the HESES19 recreation).

Value	Description	Definition
0	There is no activity in the price group for this instance.	HESPRGY = 0
HESPRGY × (1 – HESNCOMPRATE_Y)	The contribution of the activity in the price group to Column 4 of Tables 1-3 of the HESES19 recreation, where the year of instance is not included in Tables 6a-6c of the HESES19 recreation.	HESPRGY > 0 and HESHEALTHPOP = 0

Value	Description	Definition
HESCOL4_PROF1 + HESCOL4_PROF2	The contribution of the activity in the price group to Column 4 of Tables 1-3 of the HESES19 recreation, where the year of instance is included in Tables 6a-6c of the HESES19 recreation.	HESPRGY > 0 and HESHEALTHPOP = 1

## HESCOL4

141. This field shows the contribution of the year of instance to Column 4 of Tables 1-3 of the HESES19 recreation. It is the sum of HESCOL4\_A, HESCOL4\_B, HESCOL4\_C1, HESCOL4\_C2 and HESCOL4\_D.

## Instance exclusions

142. The instance is assessed to determine whether it is included in the HESES19 population. The following derived fields explain the reasons for an instance being excluded.

### HESEXCL1

143. Field indicating students who have left prior to the start of the academic year.

Value	Description	Definition
1	Student not active in academic year	ENDDATE ≠ BLANK and ENDDATE < 1 August 2019
0	Otherwise	Otherwise

### HESEXCL2

144. Field indicating National Vocational Qualification (NVQ) or Qualified Teacher Status (QTS) only or visiting students.

Value	Description	Definition
1	NVQ or QTS only or visiting student course aim associated with the first ranked instance period	HESEXCL1_P1 = 1
0	Otherwise	Otherwise

### HESEXCL4

145. Field indicating students with no qualification aim.

Value	Description	Definition
1	No qualification aim associated with the first ranked instance period	HESEXCL2_P1 = 1
0	Otherwise	Otherwise

### HESEXCL8

146. Field indicating students explicitly excluded from the HESES population.

Value	Description	Definition
1	Student explicitly excluded from the HESES population	FUNDLEV = 99 or FUNDCOMP = 9
0	Otherwise	Otherwise

### HESEXCL16

147. Field indicating students who are mostly taught outside of the UK.

Value	Description	Definition
1	Student taught mostly outside of the UK for the first ranked instance period	HESEXCL4_P1 = 1
0	Otherwise	Otherwise

### HESEXCL32

148. Field indicating students who are dormant, on sabbatical or writing up.

Value	Description	Definition
1	Student who is dormant, on sabbatical or writing up for the first ranked instance period	HESEXCL8_P1 = 1
0	Otherwise	Otherwise

### HESEXCL64

149. Field indicating incoming exchange students.

Value	Description	Definition
1	Incoming exchange student for the first ranked instance period	HESEXCL16_P1 = 1
0	Otherwise	Otherwise

### HESEXCL128

150. Field indicating students with a total STULOAD across all instance periods of less than 3.

Value	Description	Definition
1	Student with a total STULOAD of less than 3	HESSTULOAD < 3
0	Otherwise	Otherwise

### HESEXCL256

151. Field indicating students on non-standard years of instance in their final year of study.

Value	Description	Definition
1	Student on a non-standard year of instance in their final year of study	ENDDATE < HESANNIV + 14 and ENDDATE ≠ BLANK

Value	Description	Definition
0	Otherwise	Otherwise

## HESEXCL512

152. Field indicating students who withdrew before 2 December 2019 or left within 14 days of starting the instance without completing.

Value	Description	Definition
1	Student who withdrew before 2 December 2019 or left within 14 days of starting the instance without completing	ENDDATE $\neq$ BLANK and (ENDDATE < 2 December 2019 or ENDDATE – COMDATE < 14) and RSNEND $\neq$ 01, 98
0	Otherwise	Otherwise

## HESEXCL

153. This field indicates whether the instance is included in the HESES19 population. For instances excluded from the population, HESEXCL contains the sum of all applicable values from the table below.

Value	Description	Definition
1	Student not active in academic year	HESEXCL1 = 1
2	NVQ, QTS only or visiting student	HESEXCL2 = 1
4	Student with no qualification aim	HESEXCL4 = 1
8	Student explicitly excluded from the HESES population	HESEXCL8 = 1
16	Student taught mostly outside of the UK	HESEXCL16 = 1
32	Student who is dormant, on sabbatical or writing up	HESEXCL32 = 1
64	Incoming exchange student	HESEXCL64 = 1
128	Student with a total STULOAD of less than 3	HESEXCL128 = 1
256	Student on non-standard year of instance in final year of study	HESEXCL256 = 1
512	Student who withdrew before 2 December 2019 or left within 14 days of starting the instance without completing	HESEXCL512 = 1
0	Otherwise	None of the above

154. This field contains the exclusion reason(s) for the instance. It is calculated as  $(1 \times \text{HESEXCL1}) + (2 \times \text{HESEXCL2}) + (4 \times \text{HESEXCL4}) + \dots + (512 \times \text{HESEXCL512})$ . The reason(s) which contribute to the exclusion of an instance can therefore be calculated. For example, if HESEXCL = 516, by subtracting figures from the above table and starting at the bottom, we see that the student withdrew before 2 December 2019 or left within 14 days of starting the instance without completing (HESEXCL512 = 1) and that the student does not have a qualification aim (HESEXCL4 = 1).

## Overrides

### HESOVER

155. This field indicates the primary derived field(s) that have been overridden for the student. For example, if HESOVER = 11, by subtracting figures from the following table starting at the bottom, we see that the student has had overrides for HESMODE (HESOVER = 8), HESREG (HESOVER = 2) and HESEXCL (HESOVER = 1) applied.

Value	Description
1	Override to HESEXCL
2	Override to HESREG
4	Override to HESTYPE
8	Override to HESMODE
16	Override to HESLEVEL
32	Override to HESPRGA, HESPRGB, HESPRGC1, HESPRGC2 or HESPRGD
64	Override to HESNEWENTRANT
128	Override to HESHEALTHPOP
256	Override to HESESFTE
512	Override to HESLENGTH
1024	Override to HESHEALTHPROP1/2
0	Otherwise

### Estimating FTE

156. The following derived fields estimate the FTE from each instance period for the 2019-20 year of instance.

#### HESESFTE\_EXCLEST

157. This is the estimated FTE from the instance period for the 2019-20 year of instance. It is the sum of HESESFTE\_1 and HESESFTE\_2. If HESPERIODSTART\_PX indicates that there could be an instance period in the following academic year which starts before the anniversary of the start date of the instance, the value of this field does not include an estimate of the FTE from this period.

#### HESESFTE\_INCLEST

158. This is the estimated FTE from the instance period for the 2019-20 year of instance, plus an estimate of the FTE from an instance period which starts before the anniversary of the start date of the instance in the following academic year, if HESPERIODSTART\_PX indicates that there could be such an instance period in the following academic year. It is the sum of HESESFTE\_1, HESESFTE\_2 and HESESFTE\_3\_IN18.

159. In the instance period file (HES19\_DCT\_XXXXXXXX\_INSTPER.csv) HESESFTE\_INCLEST is shown as calculated.

160. In the individualised file (HES19\_DCT\_XXXXXXXXX\_IND.csv) HESEXCL\_INCLEST is instead shown as:

Value	Definition
100	HESEXCL = 0 and HESMODE = FTS
50	HESEXCL = 0 and HESMODE = SWOUT
Sum of HESESFTE_INCLEST for all instance periods included in the HESES19 population for this instance (capped at 100)	HESEXCL = 0 and HESMODE = PT and HESEXCL_PX = 0
0	Otherwise

### **FTEA\_EXCLEST, FTB\_EXCLEST, FTEC1\_EXCLEST, FTEC2\_EXCLEST, FTED\_EXCLEST**

161. The estimated FTE of the activity assigned to each price group, excluding the estimate of FTE from an instance period starting in the following academic year (where applicable), is contained in the five FTE fields as shown in the table below. These fields are calculated by multiplying the contribution of the activity in the price group to Column 4 of Tables 1-3 of the HESES19 recreation (HESCOL4\_A, HESCOL4\_B, HESCOL4\_C1, HESCOL4\_C2, HESCOL4\_D) by HESESFTE\_EXCLEST. Note that the contributions to Column 4 are derived from the instance period with (HESPERIODNUM = 1).

Field	Definition
FTEA_EXCLEST	HESCOL4_A x HESESFTE_EXCLEST
FTB_EXCLEST	HESCOL4_B x HESESFTE_EXCLEST
FTEC1_EXCLEST	HESCOL4_C1 x HESESFTE_EXCLEST
FTEC2_EXCLEST	HESCOL4_C2 x HESESFTE_EXCLEST
FTED_EXCLEST	HESCOL4_D x HESESFTE_EXCLEST

### **FTEA\_INCLEST, FTB\_INCLEST, FTEC1\_INCLEST, FTEC2\_INCLEST, FTED\_INCLEST**

162. The estimated FTE of the activity assigned to each price group, including the estimate of FTE from an instance period starting in the following academic year (where applicable), is contained in the five FTE fields as shown in the table below. These fields are calculated by multiplying the contribution of the activity in the price group to Column 4 of Tables 1-3 of the HESES19 recreation (HESCOL4\_A, HESCOL4\_B, HESCOL4\_C1, HESCOL4\_C2, HESCOL4\_D) by HESESFTE\_INCLEST. Note that the contributions to Column 4 are derived from the instance period with (HESPERIODNUM = 1).

Field	Definition
FTEA_INCLEST	HESCOL4_A x HESESFTE_INCLEST
FTB_INCLEST	HESCOL4_B x HESESFTE_INCLEST

Field	Definition
FTEC1_INCLEST	HESCOL4_C1 x HESESFTE_INCLEST
FTEC2_INCLEST	HESCOL4_C2 x HESESFTE_INCLEST
FTED_INCLEST	HESCOL4_D x HESESFTE_INCLEST

## HESCOL4A

163. This field is the estimated contribution of the instance period to the recreated HESES19 FTE for the year of instance. For part-time years of instance, this is used to populate Column 4a of Table 3. It is calculated by multiplying the contribution of the year of instance to Column 4 of Tables 1-3 of the HESES19 recreation (HESCOL4) by HESESFTE\_INCLEST, and then dividing by 100. Note that the contribution to Column 4 is derived from the instance period with (HESPERIODNUM = 1).





© The Office for Students copyright 2020

This publication is available under the Open Government Licence 3.0 except where it indicates that the copyright for images or text is owned elsewhere.

[www.nationalarchives.gov.uk/doc/open-government-licence/version/3/](http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/)