

Office for
Students



2022-23 Student data checking tool

HESES22 comparison technical document

Enquiries to HESASStudentData@officeforstudents.org.uk

Publication date 10 May 2023 (updated 16 August 2023, 6 October 2023, and 29 January 2024)

Contents

Summary	2
Changes	2
Note on terminology	9
Overrides	9
Overview of method for recreating Columns 3, 4 and 4a	9
HESES22 comparison workbook	12
HESES22 comparison individualised file	14
Student (22056) fields used to create the HESES22 comparison output	16
Description of derived fields	19
Fields in entities in which the maximum occurrences is unbounded	24
Linking between years	26
Student course session and engagement derived fields	26
Student course session exclusions	33
Calculation of FTE	35
Calculation of price groups	40
Engagement exclusions	44
Overall exclusions	46
Table 4 recreation algorithms	46
Table 5 recreation algorithms	49
Tables 6a and 6c re-creation algorithms	51
Table 7 re-creation algorithms	52
Recreating Columns 3, 4 and 4a	53
Overrides	58

Summary

1. This document describes the Higher Education Students Early Statistics survey 2022-23 (HESES22) comparison files generated by the 2022-23 Student data checking tool, and the algorithms used to generate the data needed to recreate HESES22 from the Student (22056) record submitted to the Designated Data Body (DDB).
2. Throughout the document, fields taken or derived from the 2022-23 Student (22056) record are shown in capitals.
3. The HESES22 comparison output is formed of two files. These are:
 - a. HESES22 comparison workbook 'HES22_DCT_XXXXXXXX.xlsx'
 - b. HESES22 comparison individualised file 'HES22_DCT_XXXXXXXX_IND.csv'where XXXXXXXX is the UK Provider Reference Number (UKPRN) for the provider.
4. The data in the HESES22 data checking tool outputs are provided as a data quality tool, to aid providers in getting their data correct and to give providers an opportunity to feedback on any potential issues with new OfS algorithms and must not be used for any other purpose.
5. This document is aimed at readers with in-depth knowledge of the data. Readers are advised to refer to a copy of the Student Record – 22056 coding manual (<https://codingmanual.hesa.ac.uk/22056/home/>), 'Higher Education Students Early Statistics survey 2022-23 (HESES22)' (www.officeforstudents.org.uk/publications/heses22/) and the latest individualised files for the HESES21 comparison and the HESES20 comparison when using this document.
6. We will document any changes or corrections to the algorithms in this document on the OfS website (<https://www.officeforstudents.org.uk/data-and-analysis/data-checking-tool/2022-23-student-data-checking-tool/> under 'Updates').

Changes

7. This section describes any changes to the outputs and algorithms since the original publication of this document on 10 May 2023. Though this document was updated on 16 August 2023, the outputs were updated with these changes on 5 September 2023. Further changes to this document were made on 6 October 2023 and again on 29 January 2024.
8. The changes made on 29 January 2024 will only be visible in the IRIS output from the HESA Data Platform for providers that are submitting amendments to their 2022-23 Student Record (22056). These changes will be visible to all providers in the Student post-collection outputs (to be released on the OfS portal in 2024) and any reconciliation work the OfS may carry out on the 2022-23 Student Record (22056).
9. Any deletions are shown with a ~~strikethrough~~. Any other changes are shown as **bold and underlined**.

HESCRSELGTH

10. This field has been updated to use Z_EXPECTOEND instead of ENGEXPECTEDENDDATE.

HESNOTACTIVE

11. This field has been updated to use Z_ACTANNSCS_CYC instead of STATUSCHANGEDTO. This field was further updated on 29 January 2024 to ensure SCSs where HESYOENUM = 2 are treated correctly, and also those that begin within 14 days of the end of the reference period are treated correctly.

Value	Description	Definition
1	Student is dormant, intercalating or writing up for the entirety of this SCS	All values of STATUSCHANGEDTOX are 02, 03, 04 Z_ACTANNSCS_CYC = 0 and HESYOENUM = 1 and ENGSTARTDATE < 18 July 2023
0	Otherwise	Otherwise

HESMODE

12. This field has been corrected to ensure that sandwich years abroad are treated correctly, and updated to account for a new value of HESFTE_CASE. This field was further updated on 29 January 2024 to make further corrections to the treatment of sandwich years out.

Value	Description	Definition
SWOUT	Sandwich year out	SCSMODE = 01, 02 , 03 and PREPFLAG = BLANK and (PLACEMENT = 01, 02 or (STUDYABROAD = 01 and HESTOTWORKWKS > 20))
FTS	Full-time	SCSMODE = 01, 03 and PREPFLAG = BLANK and (HESFTE_CASE ≠ 7 or (HESFTE_CASE = 7 and ENGENDDATE - HESANNIV ≥ 168)) and not above
PT	Part-time	Otherwise

HESFTE_CASE

13. This field has been updated to account for years of engagement where the student joined a new cohort earlier in the engagement and has finished the engagement in this reporting period, and where students have started at a later point than the rest of their cohort. This field was further updated on 29 January 2024 to ensure that engagement end dates which are after 31 July 2023 are treated as if they were not returned, and to introduce a new case to account for some students where they started their engagement in a previous reporting period and the start of their session year is before the anniversary of their start date.

Value	Description	Definition
7	Year of engagement where the student joined a new cohort earlier in the engagement and has finished the engagement in this reporting period	HESYOENUM = 1 and ENGENDDATE ≠ BLANK and ENGENDDATE < 1 August 2023 and ENGENDDATE ≥ HESANNIV + 14 and SCSSTARTDATE < 1 August 2022 and SCSSTARTDATE ≥ HESANNIVPYR + 14 and not above
8a	Year of engagement where the student has started the engagement in this reporting period and started at a later point than the rest of their cohort	HESYOENUM = 1 and SCSENDDATE ≠ BLANK and HESENGSTARTDATE > 31 July 2022 and HESENGSTARTDATE > SYSTARTDATE + 14 and not above
8b	Year of engagement where the student started their engagement in a previous reporting period and started the engagement at a later point than the rest of their cohort	HESYOENUM = 1 and SCSENDDATE ≠ BLANK and HESENGSTARTDATE < 1 August 2022 and HESANNIV > SYSTARTDATE + 14 and (ENGENDDATE = BLANK or ENGENDDATE ≥ 1 August 2023) and not above
8c	Year of engagement where the student started their engagement in a previous reporting period, started the engagement at a later point than the rest of their cohort and has ended it in this reporting period	HESYOENUM = 1 and SCSENDDATE ≠ BLANK and HESENGSTARTDATE < 1 August 2022 and HESANNIV > SYSTARTDATE + 14 and (ENGENDDATE ≠ BLANK and ENGENDDATE < 1 August 2023) and not above
9	Year of engagement where the student started their engagement in a previous reporting period, and the start of their session year is before the anniversary of their start date, and not above	HESYOENUM = 1 and SCSENDDATE = BLANK and HESENGSTARTDATE < 1 August 2022 and HESANNIV > SYSTARTDATE + 14 and and not above

HESPROP1 and HESPROP2

14. These fields have been added to assist with the calculation of HESESFTE for the new values of HESFTE_CASE.

HESESFTE

15. This field has been updated to account for the new values of HESFTE_CASE. This field was further updated on 29 January 2024 to account for HESFTE_CASE = 9.

Value	Definition
RPSTULOAD	HESFTE_CASE = 5, 9
HESAVRGFTE	HESFTE_CASE = 2, 8a and not above

Value	Definition
Z_STULOAD_CYC	HESFTE_CASE = 3, 8b and not above
<u>RPSTULOAD × HESPROP1</u>	<u>HESFTE_CASE = 7</u>
<u>RPSTULOAD × HESPROP2</u>	<u>HESFTE_CASE = 8c</u>

HESCLIN

16. This field has been updated as it did not match the code that produces the outputs. A mistake was also discovered in the code, which has now been corrected. This field was further updated on 29 January 2024 to use HESAVRGCRSELGTH instead of HESCRSELGTH.

Value	Description	Definition
1	Activity assigned to price group A for students on a first registrable medical qualification, first registrable dental qualification or course which leads to eligibility to register to practise as a veterinary surgeon	(HESMDV = MED and <u>(HESAVRGCRSELGTH – YEARPRG – HESYZERROADJ) = 0, 1, 2</u>) or (HESMDV = DEN and <u>(HESAVRGCRSELGTH – YEARPRG – HESYZERROADJ) = 0, 1, 2, 3</u>) or (HESMDV = VET and <u>(HESAVRGCRSELGTH – YEARPRG – HESYZERROADJ) = 0, 1, 2, 3, 4</u>)
2	Postgraduate clinical medicine or dentistry student assigned to price group A	<u>HESMDV = OTH and HESLEVEL = PGR, PGT_ML, PGT_OTH, PGT_UGF and (QUALSUBJECT1 = 100266, 100267, 100494 or QUALSUBJECT2 = 100266, 100267, 100494 or QUALSUBJECT3 = 100266, 100267, 100494 or QUALSUBJECT4 = 100266, 100267, 100494 or QUALSUBJECT5 = 100266, 100267, 100494)</u>
3	Postgraduate clinical veterinary science student assigned to price group A	<u>HESMDV = OTH and HESLEVEL = PGR, PGT_ML, PGT_OTH, PGT_UGF and (QUALSUBJECT1 = 100531, 101347 or QUALSUBJECT2 = 100531, 101347 or QUALSUBJECT3 = 100531, 101347 or QUALSUBJECT4 = 100531, 101347 or QUALSUBJECT5 = 100531, 101347)</u>

HESCSYATYPE

17. This field has been updated to only include mobilities that take place outside of the UK and to include a new value to identify if the SCS is for a sandwich placement abroad, not including Erasmus+ or Turing Scheme. This field was further updated on 29 January 2024 to ensure the country code of GB is treated correctly, and to ensure outgoing Erasmus+ or Turing years abroad are categorised correctly.

Value	Description	Definition
1	<u>SCS contains a work placement spent abroad taken under the Erasmus+ or Turing Scheme</u>	At least one occurrence of MOBSCHEMEX = 03, 05 <u>(and ACTTYPEIDX = 02, 03 and COUNTRYX ≠ GB, XF, XG, XH, XI, XK for such a mobility)</u> across all mobilities in this SCS

Value	Description	Definition
2	<u>SCS contains a period of study spent abroad taken under the Erasmus+ or Turing Scheme and not above</u>	<u>At least one occurrence of MOBSCHEMEX = 03, 05 (and COUNTRY ≠ GB, XF, XG, XH, XI, XK for such a mobility) across all mobilities in this SCS and not above</u>
0	Otherwise	Otherwise

HESYATYPE

18. This field has been updated to include a new value to identify sandwich placements abroad, not including Erasmus+ or Turing Scheme. This field was further updated on 29 January 2024 to ensure outgoing Erasmus+ or Turing years abroad are categorised correctly.

Value	Description	Definition
ERASMUS_WORK	Outgoing Erasmus+ or Turing year abroad, <u>including a period spent working abroad</u>	HESYATYPE = 1 for at least one SCS in this engagement with HESSCSEXCL = 0
ERASMUS_OTH	<u>Outgoing Erasmus+ or Turing year abroad and not above</u>	<u>HESYATYPE = 2 for at least one SCS in this engagement with HESSCSEXCL = 0 and not above</u>
OTHER	Otherwise	Otherwise

HESYAPOP

19. This field has been corrected to ensure sandwich placements are treated correctly in Table 4. This field was further updated on 29 January 2024 to improve categorisation of years abroad.

Value	Description	Definition
1	Student on year abroad	HESEXCL = 0 and HESLEVEL = UG_45, UG_OTH and HESTYPE ≠ ISOV and <u>((HESMODE = FTS and (STUDYABROAD = 01 or (STUDYABROAD = 02 and HESTOTWKS > 30))) or (HESMODE = SWOUT and (HESTOTWORKWKSABROAD > 0 and HESTOTWORKWKSUK = 0, BLANK) or HESYATYPE = ERASMUS_WORK))</u>
0	Otherwise	Otherwise

HESHEALTHPOP

20. This field has been corrected to ensure postgraduate taught courses eligible for masters' loans for dental therapy are correctly treated in Tables 6a and 6c.

Value	Description	Definition
1	Included in Tables 6a and 6c	HESEXCL = 0 and (UKPRN ≠ 10007773 or (UKPRN = 10007773 and PERMADDCOUNTRY ≠ XG, XH, XI)) and QUALCAT = H0003, H0004, H0005, H0010, I0001, J0002, M0002, M0003, M0006, M0015, M0021 and (HESLEVEL = UG_45, UG_OTH, PGT_UGF <u>or</u> <u>(HESLEVEL = PGT_ML and</u> <u>(HESHEALTHPROF1 = DENTHE or HESHEALTHPROF2 = DENTHE)))</u> and HESTYPE = HOMEF, HOMENF and (HESHEALTHPROF1 ≠ BLANK or HESHEALTHPROF2 ≠ BLANK)
0	Otherwise	Otherwise

HESOVER

21. This field has been included to indicate where a primary derived field has been overridden.
This field was further updated on 29 January 2024 to add two new values.

Value	Description
<u>1</u>	<u>Override to HESESFTE</u>
<u>2</u>	<u>Override to HESEXCL</u>
<u>4</u>	<u>Override to HESLEVEL</u>
<u>8</u>	<u>Override to HESMODE</u>
<u>16</u>	<u>Override to HESREG</u>
<u>32</u>	<u>Override to HESTYPE</u>
<u>64</u>	<u>Override to HESYAPOP</u>
<u>128</u>	<u>Override to HESYATYPE</u>
<u>256</u>	<u>Override to HESLENGTH</u>
<u>512</u>	<u>Override to HESPRGA-HESPRGD for students on foundation degrees for teaching assistants (awarded as an additional student number bid, or otherwise agreed by the OfS)</u>
<u>1024</u>	<u>Other overrides to HESPRGA-HESPRGD</u>
<u>2048</u>	<u>Override to HESYOENUM</u>
<u>4096</u>	<u>Override to HESHEALTHPROP1/2</u>
<u>8192</u>	<u>Override to HESHEALTHPOP</u>
<u>16384</u>	<u>Override to HESHEALTHPROF1/2</u>
<u>32768</u>	<u>Override to HESHEALTHYEAR</u>

HESSTULOAD_INPOP

22. Though the technical document was correct, the outputs were updated on 5 September 2023 to include a correction to HESSTULOAD_INPOP (the outputs incorrectly summed RPSTULOAD across an engagement rather than a year of engagement).

HESAVRGFTEPOP

23. Though the technical document was correct, the outputs were updated on 5 September 2023 to include a correction to HESAVRGFTEPOP (the outputs incorrectly referred to 1 August 2021 instead of 1 August 2022).

COURSETITLE

24. The individualised file HES22_DCT_XXXXXXXXX_IND.csv was updated on 6 October 2023 to include the title of the course (COURSETITLE).

STATUSVALIDFROMX

25. The individualised file HES22_DCT_XXXXXXXXX_IND.csv was updated on 6 October 2023 to include the date the status change (STATUSCHANGEDTOX) is valid from (STATUSVALIDFROMX).

HESCRSELGTH

26. The outputs were updated on 6 October 2023 to ensure Z_EXPECTOEND values of 9999-12-31 are treated appropriately in HESCRSELGTH (that is, with HESCRSELGTH = 6).

HESAVRGFTETYPE and HESAVRGFTE

27. The technical document and outputs were updated on 6 October 2023 to ensure that HESAVRGFTETYPE and HESAVRGFTE are calculated where HESFTE_CASE = 8a.

HESYOENUM

28. The technical document and outputs were updated on 6 October 2023 to ensure that STULOADPYR = BLANK is treated correctly in HESYOENUM = 2.

Value	Description	Definition
2	This SCS belongs to second countable year of engagement	PREPFLAG = 01, 02, 03 or (PREPFLAG = BLANK and SCSSTARTDATE < HESANNIV – 14 and SCSENDDATE < HESANNIV + 14 and SCSENDDATE ≠ BLANK and ((LOADYRBPYR = 0 and INSTAPPPYR = 1 and TYPEYRBPYR = 2, 4) or ((STULOADPYR = 0, BLANK or HESLINKPYR = 0) and ENGSTARTDATE < 1 August 2021)))

STULOADPYR

29. This field has been updated on 29 January 2024 to ensure that 2021-22 Student Alternative data is included.

HESPRGA, HESPRGB, HESPRGC11, HESPRGC12, HESPRGC2, HESPRGD

30. These fields have been updated on 29 January 2024 to ensure that where the sum of QUALPROPORTION1-5 is not equal to 100, these values are scaled so that they do sum to 100.

Derived field removed on 29 January 2024

31. The following derived fields have been removed on 29 January 2024:

- HESWORKWKS and HESTOTWORKWKS (these fields have been reviewed and replaced with some of the derived fields listed in paragraph 32).

Derived fields added on 29 January 2024

32. The following derived fields have been added on 29 January 2024:

- HESAVRGCRSELGTH (this field has been added to ensure price group A activity is assigned correctly).
- HESWORKWKSABROADX, HESTOTWORKWKSABROAD, HESWORKWKSUKX, HESTOTWORKWKSUK, HESWKSABROADX, HESTOTWKS (these fields have been added to ensure that activity is assigned to Table 4 correctly).

Note on terminology

33. The algorithms below apply to the Student (22056) fields.

34. This document refers to 'engagement', whilst the HESES22 guidance refers to 'instance'. For the purposes of this document only, these terms are synonymous.

Overrides

35. Occasionally primary derived field(s) need to be overridden for some records. This occurs in circumstances where we cannot correctly categorise those records using an algorithm. Some providers may require overrides in their HESES22 comparison as generated by the 2022-23 Student data checking tool, using Student (22056) data. If you require an override in the HESES22 comparison, please contact HESASStudentData@officeforstudents.org.uk.

Overview of method for recreating Columns 3, 4 and 4a

36. We will not use the FUNDCOMP field from the 2022-23 Student data.¹ Consequently it is necessary to use a different method to assign students to Column 3 or Column 4 of Tables 1, 2, 3, 6a, 6c and 7 of the HESES22 recreation, instead of the normal method which uses FUNDCOMP. For this purpose, the following new fields have been added:

HESNCOMPLEVEL_Y, HESNCOMPRATE_Y

HESENCOMPLEVEL_PROFZ, HESNCOMPRATE_PROFZ

HESCOL3_PROFZ, HESCOL3_Y, HESCOL3

HESCOL4_PROFZ, HESCOL4_Y, HESCOL4

¹ This change was originally announced in 'Changes to 2022 student data surveys to inform funding: Notification of changes' (OfS 2022.35) available at www.officeforstudents.org.uk/publications/changes-to-2022-student-data-surveys-to-inform-funding-notification-of-changes/.

HESCOL4A.

For details on these fields, please see the 'Recreating Columns 3, 4 and 4a' section of this document.

Recreating Column 3 and 4 using HESES22 non-completion rates

37. For the HESES22 comparison, we are using non-completion rates calculated from HESES22 data to determine the likelihood that a student did not complete a particular year of engagement. This likelihood is used to determine the proportion of the year of engagement 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, which, for the HESES22 comparison, replace the HESCOMP field. For example, if the non-completion rate applicable to a particular year of engagement is 15 per cent, then (HESCOL3 = 0.15) and (HESCOL4 = 0.85) for that year of engagement.
38. Headcounts from Columns 1, 2 and 3 of Tables 1, 2 and 3 of HESES22 have been used to calculate non-completion rates at five different levels. These are used to calculate HESCOL3 and HESCOL4 for years of engagement recorded in Tables 1, 2, 3 and 7 but not in Tables 6a and 6c. Headcounts from Columns 1, 2 and 3 of Tables 6a 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 engagement recorded in Tables 6a and 6c were calculated separately using a different method (see paragraph 40). 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 engagement. 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 HESES22 (minus those also recorded in Tables 6a and 6c) for each provider. The combination of parameters used for each level are shown below:
- a. Level 1: (provider) x (mode of study) x (level of study) x (residential and fundability status) x (price group) x (length of year of engagement).
 - b. Level 2: (provider) x (mode of study) x (level of study) x (residential and fundability status) x (price group).
 - c. Level 3: (provider) x (mode of study) x (level of study).
 - d. Level 4: (provider) x (mode of study).
 - e. Level 5: (provider).
39. 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 engagement 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 engagement in the group.
40. Headcounts from Columns 1, 2 and 3 of Tables 6a and 6c of HESES22 have been used to calculate non-completion rates at five different levels. These are used to calculate HESCOL3 and HESCOL4 for years of engagement recorded in Tables 6a 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 and 6c of HESES22 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).

41. 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 engagement 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 engagement in the group. Where there are no years of engagement in the group at Level 5, the rate is set to zero.
42. In the first step of the process of finding a suitable non-completion rate for a year of engagement, we look for the corresponding rate at Level 1, using the combination of parameters shown in either paragraph 38 or 40, depending on whether the year of engagement is only recorded in Tables 1 to 3, or whether it is also recorded in Tables 6a and 6c. If a rate at this level is not found (i.e. the year of engagement does not correspond with a year of engagement recorded by the provider at this level in HESES22), or the corresponding rate is deemed unreliable because there are not enough years of engagement 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 engagement is not determined, then no rate will be found.
43. Because a year of engagement can be in more than one price group, and the non-completion rates at some levels are dependent on price group, it may be necessary to apply more than one non-completion rate to a year of engagement. For this reason, the process of finding a suitable non-completion rate is carried out for each price group that has activity in it. It is therefore possible for the values of HESCOL3 and HESCOL4 for a particular year of engagement in Table 1, 2 or 3 (but not in Tables 6a and 6c) to be calculated using five different non-completion rates if there is activity in each of the five price groups.
44. The contribution to the proportions recorded in HESCOL3 and HESCOL4 from each price group is determined by the proportion of activity in each price group. For example, if 60 per cent of the activity for a year of engagement is in price group B and 40 per cent is in price group C1.1, and the non-completion rates are 15 per cent for the price group B activity and 20 per cent for the price group C11 activity, then the value of HESCOL3 would be calculated as follows: $(0.60 \times 0.15) + (0.40 \times 0.20) = 0.17$.

Using HESCOL4 to estimate FTE

45. By applying the method described above, every year of engagement in the HESES22 population contributes to both Column 3 and Column 4 of Table 1, 2 or 3 of the HESES22 recreation. Consequently, every part-time year of engagement also contributes to the FTE in Column 4a. Before we calculate the FTE in each price group, we must exclude non-completed years of engagement. The algorithm that calculates FTEY is set so that only the proportion of a year of engagement that is counted in Column 4 is used to calculate FTE. The HESCOL4A field records the sum of the FTE (FTEY) from all price groups. This is necessary to rebuild Column 4a, because without using FUNDCOMP it is not possible to exclude FTE associated with non-completed years of engagement when summing HESESFTE.

HESES22 comparison workbook

46. The HESES22 comparison workbook is the Excel workbook HES22_DCT_XXXXXXXX.xlsx which contains the worksheets shown in Table 1. This workbook will be updated in due course to include funding modelled using 2022-23 Student (22056) data.

Table 1: Worksheets in the HESES22 comparison workbook

Worksheet*	Title
Cover_sheet	Office for Students: 2022-23 Student data checking tool: HESES22 comparison
Table_of_contents	Table of contents
Key_differences	Key differences between HESES22 and recreated HESES22
Rebuild_summary	Comparison of splits of years of instance and FTE
1_Full_time	HESES22 recreated using 2022-23 Student data Table 1: Full-time counts of years of instance
2_Sandwich	HESES22 recreated using 2022-23 Student data Table 2: Sandwich year out counts of years of instance
3_Part_time	HESES22 recreated using 2022-23 Student data Table 3: Part-time counts of years of instance and full-time equivalence (FTE)
4_Year_abroad	HESES22 recreated using 2022-23 Student data Table 4: Home fee undergraduate years abroad
5_Planning	HESES22 recreated using 2022-23 Student data Table 5: Further student analysis for planning purposes
6a_Health_full_time	HESES22 recreated using 2022-23 Student data Table 6a: Full-time counts of years of instance for home fee students on pre-registration health courses

Worksheet*	Title
6c_Health_part_time	HESES22 recreated using 2022-23 Student data Table 6c: Part-time counts of years of instance and FTE for home fee students on pre-registration health courses
7_Degree_apprenticeships	HESES22 recreated using 2022-23 Student data Table 7: Home fee years of instance and full-time equivalence (FTE) on degree apprenticeships
h1_Full_time	HESES22 Table 1: Full-time counts of years of instance
h2_Sandwich	HESES22 Table 2: Sandwich year out counts of years of instance
h3_Part_time	HESES22 Table 3: Part-time counts of years of instance and FTE
h4_Year_abroad	HESES22 Table 4: Home fee undergraduate years abroad
h5_Planning	HESES22 Table 5: Further student analysis for planning purposes
h6a_Health_full_time	HESES22 Table 6a: Full-time counts of years of instance for home fee students on pre-registration health courses
h6c_Health_part_time	HESES22 Table 6c: Part-time counts of years of instance and FTE for home fee students on pre-registration health courses
h7_Degree_apprenticeships	HESES22 Table 7: Home fee years of instance and full-time equivalence (FTE) on degree apprenticeships
1_Full_time_diff	Difference between HESES22 recreated using 2022-23 Student data and HESES22 Table 1: Full-time counts of years of instance
2_Sandwich_diff	Difference between HESES22 recreated using 2022-23 Student data and HESES22 Table 2: Sandwich year out counts of years of instance
3_Part_time_diff	Difference between HESES22 recreated using 2022-23 Student data and HESES22 Table 3: Part-time counts of years of instance and FTE
4_Year_abroad_diff	Difference between HESES22 recreated using 2022-23 Student data and HESES22 Table 4: Home fee undergraduate years abroad
5_Planning_diff	Difference between HESES22 recreated using 2022-23 Student data and HESES22 Table 5: Further student analysis for planning purposes
6a_Health_full_time_diff	Difference between HESES22 recreated using 2022-23 Student data and HESES22 Table 6a: Full-time counts of years

Worksheet*	Title
	of instance for home fee students on pre-registration health courses
6c_Health_part_time_diff	Difference between HESES22 recreated using 2022-23 Student data and HESES22 Table 6c: Part-time counts of years of instance and FTE for home fee students on pre-registration health courses
7_Degree_apprenticeships_diff	Difference between HESES22 recreated using 2022-23 Student data and HESES22 Table 7: Home fee years of instance and full-time equivalence (FTE) on degree apprenticeships
A_Summary	2023-24 Grant tables Table A: Summary of 2023-24 allocations
B_High_cost	2023-24 Grant tables Table B: 2023-24 High-cost subject funding
C_NMAH_supplement	2023-24 Grant tables Table C: 2023-24 Nursing, midwifery and allied health supplement
D_Overseas	2023-24 Grant tables Table D: 2023-24 Overseas study programmes
E_Other_high_cost_targeted	2023-24 Grant tables Table E: 2023-24 Other high-cost targeted allocations
F_Student_access_and_success	2023-24 Grant tables Table F: 2023-24 Student access and success
G_Parameters	2023-24 Grant tables Table G: 2023-24 Parameters in the funding models

* Shading corresponds to the colour of the workbook tab.

47. The difference sheets (see worksheets ending in 'diff' in Table 1) will indicate where differences between the HESES22 recreation tables and the HESES22 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 HESES22 data and HESES22 recreation data.

48. Providers are strongly encouraged to use the 'Rebuild information' worksheet in the HES22_DCT_XXXXXXXXX.xlsx workbook, which may highlight data quality issues relating to the 2022-23 Student (22056) fields used in the HESES22 recreation algorithms.

HESES22 comparison individualised file

49. When working through this document it is necessary to use the individualised file HES22_DCT_XXXXXXXXX_IND.csv. These files contain the values of all fields used to generate the HESES22 comparison.

50. Fields taken from the 2022-23 Student (22056) record or derived as part of the HESES22 comparison are shown in capitals using the names given in Tables 2 and 3 respectively.
51. Specific instructions for rebuilding the HESES22 comparison workbook from the individualised file are provided in the HESES22 comparison rebuild document.
52. The individualised file contains one record per student course session (SCS) for each unique combination of UKPRN, SID, NUMHUS.

Student course session ranking

53. The SCS derived field HESSCSEXCL determines whether or not a SCS is included in the HESES22 population. SCSs are ranked by whether or not they are in the HESES22 population, then by descending SCSSTARTDATE. Thus, a SCS which is included in the population is always ranked higher than an excluded SCS, even if the excluded SCS has a later SCSSTARTDATE.
54. Where a student has SCSs in two years of engagement in the reporting period, the ranking process will be carried out separately for HESYOENUM = 1 and HESYOENUM = 2.
55. The data associated with the first ranked SCS is used to define the year of engagement in the HESES22 population. Data for all SCSs is shown in the individualised file.

Student (22056) fields used to create the HESES22 comparison output

56. The Student (22056) fields used to generate the HESES22 comparison are listed in Table 2.

Table 2: List of Student (22056) fields used in the HESES22 comparison

Entity	Name	Description	Column in Individualised file
Course	COURSETITLE [†]	Title of the course	I
Course	PREREQUISITE	Level of the course for funding purposes.	DA
Course	TTCID	Indicates whether the course is a teacher training course and identifies the type of teacher training.	EE
Course initiative	COURSEINITID	Identifies the specific scheme associated with the course.	See Table 3
Curriculum accreditation	CURACCID	The specific accreditation type applicable to the course.	See Table 3
Engagement	ENGSTARTDATE	Start date for the engagement.	BI
Engagement	FEEELIG	Distinguishes between those students who are eligible to pay home fees and those who are not.	BJ
Engagement	INCOMINGEXCHANGE	Identifies if the student is an incoming exchange or visiting student.	BK
Engagement	NUMHUS [†]	Identifier for the engagement.	D
Engagement	OWNENGID [†]	Provider's own engagement identifier.	E
Engagement	QTS	Indicates whether a student has qualified teacher status.	BN
Engagement	UKPRN [†]	UK Provider Reference Number	A
Entry profile	PERMADDCOUNTRY	Country of the student's permanent home address on entry to their engagement.	BM
Funding and monitoring	FUNDLENGTH	Length of the student course session for funding purposes.	CQ
Funding and monitoring	NONREGFEE	Students who are not subject to regulated fees.	CU
Funding body	FUNDINGBODY	The body that is responsible for allocating funding for a fundable student course session.	See Table 3
Leaver	ENGENDDATE	End date of the engagement.	BH

Entity	Name	Description	Column in Individualised file
Leaver	RSNENGEND	Reason the engagement has ended.	BO
Off venue activity	ACTTYPEID	The type of off-venue activity.	See Table 3
Off venue activity	MOBScheme	Scheme associated with the off venue activity.	See Table 3
Off venue activity	OVAID	The unique identifier for the off venue activity.	See Table 3
Placement	PLACEMENT	Records where the student course session contains a placement.	CY
Qualification	QUALCAT	Qualification category.	DE
Qualification	QUALID	Unique identifier for the qualification.	DF
Qualification subject	QUALPROPORTION1-5	Proportion allocated to each subject contributing to a qualification.	DG, DH, DI, DJ and DK
Qualification subject	QUALSUBJECT1-5	The subject(s) of the qualification.	DL, DM, DN, DO and DP
Reference period student load	RPSTULOAD	Full-time equivalence that is applicable to the relevant reference period.	DQ
Session status	STATUSCHANGEDTO	Status the student has moved to.	See Table 3
Session status	STATUSVALIDFROM	Date the status is valid from	See Table 3
Session year	SYSTARTDATE	Session year start date	BV
Student	NATION	Legal nationality of the student	BL
Student	OWNSTU [†]	Provider's own internal identifier for the student.	C
Student	SID [†]	Unique identifier for the student.	B
Student accreditation aim	STUACCID	The accreditation for teacher training accreditations or where the student has specialised part way through their course.	See Table 3
Student course session	COURSEID [†]	Unique identifier for a course associated with the student course session.	H
Student course session	PREPFLAG	Student course session represents a preparatory phase of the students studies.	CZ
Student course session	SCSENDDATE	End date of the student course session.	DR

Entity	Name	Description	Column in Individualised file
Student course session	SCSESSIONID	Unique identifier for the student course session.	G
Student course session	SCSMODE	Mode of study of the student during the student course session.	DS
Student course session	SCSSTARTDATE	Start date of the student course session.	DT
Student course session	STUDYABROAD	Student is studying abroad as part of the student course session.	EA
Student course session	YEARPRG	Year of programme that applies to the student course session.	EF
Student initiative	STUINITID	Specific scheme associated with the engagement.	See Table 3
Study location	DISTANCE	Records if the student is distance learning and whether they are inside or outside the UK.	See Table 3
Study location	PRINONUK	Students who will spend the majority of their engagement outside the UK.	See Table 3
Study location	STUDYLOCID	Unique identifier for the study location entity.	See Table 3
Engagement derived field	Z_EXPECTOEND	DDB derived field, shows the initial expected end date of an engagement.	BW
Engagement derived field	Z_STULOAD_CYC	DDB derived field, shows the total student load for the engagement across the cycle.	BX
Off venue activity derived field	Z_OVADAYSCS	DDB derived field, shows the length in days of a single off venue activity during a student course session.	See Table 3
Student course session derived field	Z_ACTANNSCS_CYC	DDB derived field, indicates if the Student Course Session active (and not writing-up) after the anniversary of the Engagement start date + 14 days	EG

† These fields are not used in the comparison but are included in the individualised file to allow easy identification of students.

Description of derived fields

57. The derived fields used to generate the HESES22 comparison are listed in Table 3.

Table 3: List of derived fields used in the HESES22 comparison

Name	Description	Paragraph	Column in Individualised file
ACTTYPEID1-3	Activity type identifiers.	64	BY, BZ and BA
COUNTRY1-3	Country of off venue activity.	64	CB, CC and CD
COURSEINITID1-3	Course scheme initiative identifiers.	59	CE, CF and CG
CURACCID1-3	Course accreditation identifiers.	60	CH, CI and CJ
DISTANCE1-3	Distance learning identifiers.	66	CK, CL and CM
FUNDINGBODY1-3	Funding body identifiers.	63	CN, CO and CP
HESACCREDARCTWO	Architects Registration Board (ARB) at Part 2 level identifier.	88	EK
HESACCREDSOCIAL	Social work course identifier.	126	EL
HESANNIV	Anniversary of start date.	78	EM
HESANNIVPYR	Anniversary of start date in previous academic year.	79	EN
HESAPPCOURSEAIMPYR	Previous year's course aim	160	EO
HESAPPPOP	Indicates whether the year of engagement is included in Table 7.	162	K
HESAPPRENTICE	Higher or Degree Apprenticeship identifier.	161	EP
HESAPPSTARTER	Table 7 starters in current academic year.	163	L
HESAVRGCRSELGTH	Average HESCRSELGTH	83	EQ
HESAVRGFTE	Average FTE.	116	ER
HESAVRGFTEPOP	Average FTE population.	111	ES
HESAVRGFTEYPE	Average FTE type.	113	ET
HESBROADLEVEL	Broad level of study.	146	EU
HESCLIN	Price group A clinical and veterinary students.	125	EV
HESCOL3	Contribution of year of engagement to Column 3 of Tables 1 to 3 and 7.	170	M

Name	Description	Paragraph	Column in Individualised file
HESCOL3_PROFZ	Contribution of activity in nursing, midwifery and allied health professions to Column 3 of Tables 1 to 3 and 7.	168	T and U
HESCOL3_Y	Contribution of activity in price group to Column 3 of Tables 1 to 3 and 7.	169	N, O, P, Q, R and S
HESCOL4	Contribution of year of engagement to Column 4 of Tables 1 to 3 and 7.	173	V
HESCOL4_PROFZ	Contribution of activity in nursing, midwifery and allied health professions to Column 4 of Tables 1 to 3 and 7.	171	AC and AD
HESCOL4_Y	Contribution of activity in price group to Column 4 of Tables 1 to 3 and 7.	172	W, X, Y, Z, AA and AB
HESCOL4A	Estimated contribution of FTE for each year of engagement	175	AE
HESCRSELGTH	Expected length of the course in years.	82	EW
HESDISTANCE	Distance learning indicator.	76	EX
HESEC	Indicates where a student has a UK, other Home and EU or other domicile.	95	EY
HESENGEXCL	Reason(s) for exclusion of engagement.	133	EZ
HESENGEXCL1, HESENGEXCL2, HESENGEXCL4, HESENGEXCL8	Engagement period exclusions.	129, 130, 131, 132	FA, FB, FC and FD
HESENGSTARTDATE	Engagement start date.	77	FE
HESESFTE	FTE for the year of engagement.	121	FF
HESEXCL	Reason(s) for the exclusion from the HESES population.	135	AF
HESFTE_CASE	Method used to calculate HESESFTE.	107	FG

Name	Description	Paragraph	Column in Individualised file
HESFTEA, HESFTEB, HESFTEC11, HESFTEC12, HESFTEC2, HESFTED	FTE of the year of engagement assigned to each price group.	174	AG, AH, AI, AJ, AK and AL
HESHEALTHPOP	Identifies whether the student will be included in pre-registration nursing, midwifery and allied health profession courses.	158	AM
HESHEALTHPROF1, HESHEALTHPROF2	Identifies which pre-registration nursing, midwifery and allied health profession the student is recorded against.	89, 92	AN and AO
HESHEALTHPROP1, HESHEALTHPROP2	The proportion of the student's activity that is allocated to each pre-registration nursing, midwifery and allied health profession.	155, 156	AP and AQ
HESHEALTHYEAR	Indicates whether the student started their course in 2022-23 or another academic year.	157	AR
HESLENGTH	Long or standard year of engagement.	97	AS
HESLEVEL	Level of study.	94	AT
HESLINKPYR	Link made to 2021-22 data.	80	FH
HESMDV	Medicine, dentistry or veterinary science student.	122	FI
HESMODE	Mode of study.	86	AU
HESNCOMPLEVEL_PROFZ	Level at which HESNCOMPRATE_PROFZ is calculated for the year of engagement	166	FP and FQ
HESNCOMPLEVEL_Y	Level at which HESNCOMPRATE_Y is calculated for the year of engagement.	164	FJ, FK, FL, FM, FN and FO
HESNCOMPRATE_PROFZ	Estimate of likelihood that the activity in each health profession was not completed.	167	FX and FY
HESNCOMPRATE_Y	Estimate of likelihood that the activity in price group was not completed.	165	FR, FS, FT, FU, FV and FW

Name	Description	Paragraph	Column in Individualised file
HESNEWENTRANT	Identifies whether a student is a new entrant.	153	AV
HESNOTACTIVE	Indicates if the student is dormant, intercalating or writing up for the entirety of this SCS.	84	FZ
HESOVER	Primary derived field(s) being overwritten	176	GA
HESPGLOANELIGIBILITY	Indicates postgraduate loan eligibility.	87	GB
HESPGRPYR	Number of postgraduate research (PGR) years of instance in 2021-22.	152	GC
HESPGRPYR2	Number of PGR years of instance 2020-21.	151	GD
HESPGTPYR	Number of postgraduate taught (PGT) years of instance in 2021-22.	150	GE
HESPGTPYR2	Number of PGT years of instance in 2020-21.	149	GF
HESPRGA, HESPRGB, HESPRGC11, HESPRGC12, HESPRGC2, HESPRGD	Proportion of activity in each price group.	127	AW, AX, AY, AZ, BA and BB
HESPROP1, HESPROP2	Estimate of the proportion of RPSTULOAD that is allocated to the countable year of engagement.	109, 110	GG, GH
HESREG	HESES Column 1 or 2 indicator.	85	BC
HESRESSTAT	Fundability and residential status.	145	BD
HESSCSEXCL	Reason(s) for SCS exclusion.	105	GI
HESSCSEXCL1, HESSCSEXCL2, HESSCSEXCL4, HESSCSEXCL8, HESSCSEXCL16, HESSCSEXCL32	SCS exclusions.	99, 100, 101, 102, 103, 104	GJ, GK, GL, GM, GN and GO
HESSCSNUM	SCS ranking.	75	J
HESSCSYATYPE	Indicates type of year abroad.	142	GP

Name	Description	Paragraph	Column in Individualised file
HESSTULOAD_INPOP	Sum of RPSTULOAD for included SCSs.	108	GQ
HESOTWKS	Total number of weeks spent abroad or on a work placement in the UK.	141	GR
HESOTWORKWKSABROAD	Total number of weeks spent working abroad.	137	GS
HESOTWORKWKSUK	Total number of weeks spent working in the UK.	139	GT
HESYTYPE	Fundability status.	96	BE
HESUGPYR	Number of undergraduate (UG) years of instance in 2021-22.	148	GU
HESUGPYR2	Number of UG years of instance in 2020-21.	147	GV
HESWKSABROAD1-3	Number of weeks that are spent working or studying abroad for the off-venue activities for this SCS.	140	GW, GX and GY
HESWORKWKSABROAD1-3	Number of weeks that may be spent working abroad for the off-venue activities for this SCS.	136	GZ, HA and HB
HESWORKWKSUK1-3	Number of weeks that may be spent working in the UK for the off-venue activities for this SCS.	138	HC, HD and HE
HESYAPOP	Indicates whether the year of engagement is included in the count of Table 4 years abroad.	144	BF
HESYATYPE	Type of fee charged to students spending a year abroad.	143	BG
HESYOENUM	Year of engagement identifier.	81	F
HESYRZERO	The year in which a student last took a foundation year.	123	HF
HESYRZERROADJ	Indicates whether the student has taken a foundation year.	124	HG
INSTAPPYR	2021-22 approximation indicator.	70	HH

Name	Description	Paragraph	Column in Individualised file
LOADYRBPYR	FTE in year B for 2021-22.	72	HI
MOBScheme1-3	Type of mobility scheme.	64	CR, CS and CT
OVAID1-3	Off venue activity identifiers.	64	CV, CW and CX
PRINONUK1-3	Majority of study outside of UK identifiers.	66	DB, DC and DD
STATUSCHANGEDTO1-3	Status change in SCS identifiers.	65	DU, DV and DW
STATUSVALIDFROM1-3	Date status change is valid from	60	DX, DY and DZ
STUACCID1-3	Specific accreditation identifiers.	61	BP, BQ and BR
STUDYLOCID1-3	Study location identifiers.	66	EB, EC and ED
STUINITID1-3	Student scheme initiative identifiers.	62	BS, BT and BU
STULOADPYR	STULOAD value from the 2021-22 record	71	HJ
TYPEYRBPYR	TYPEYR from the 2021-22	73	HK
Z_OVADAYSCS1-3	Length of off venue activity during a student course session.	64	EH, EI and EJ

Fields in entities in which the maximum occurrences is unbounded

58. A particular SCS may have some fields returned for it that belong to entities where the maximum occurrences of that entity is unbounded. Where this happens, all occurrences of the entity will be used in our algorithms, but due to file size restrictions we only show three occurrences of the entity in the individualised file.

Course initiative entity: COURSEINITIDX

59. These fields indicate if a specific scheme is associated with the course, where X denotes the Course initiative entity. For example, COURSEINITID2 is the initiative identifier field (COURSEINITIATIVEID) from the second Course initiative entity. We only use COURSEINITIATIVEIDs that are valid during at least part of this SCS, i.e. where the COURSEINITVALIDFROM and COURSEINITVALIDTO dates overlap with at least part of this SCS, and the three shown are those with the three most recent values of COURSEINITVALIDTO. Where more than one COURSEINITIATIVEID has the same COURSEINITVALIDTO date, we display the values with the earliest COURSEINITVALIDFROM dates. Where more than one COURSEINITIATIVEID has the same COURSEINITVALIDFROM date, we display the those with the lowest values of COURSEINITIATIVEID.

Curriculum accreditation entity: CURACCIDX

60. These fields indicate if a specific accreditation type is associated with the course, where X denotes the Curriculum accreditation entity. For example, CURACCID2 is the accreditation identifier field (CURACCID) from the second Curriculum accreditation entity. We only use CURACCIDs that are valid during at least part of this SCS, i.e. where the CURACCVALIDFROM and CURACCVALIDTO dates overlap with at least part of this SCS, and the three shown are those with the three most recent values of CURACCVALIDTO. Where more than one CURACCID has the same CURACCVALIDTO date, we display the values with the earliest CURACCVALIDFROM dates. Where more than one CURACCID has the same CURACCVALIDFROM date, we display the those with the lowest values of CURACCID.

Student accreditation entity: STUACCIDX

61. These fields indicate if a specific accreditation type is associated with the student, where X denotes the Student accreditation aim entity. For example, STUACCID2 is the accreditation identifier field (STUACCID) from the second Student accreditation aim entity. The three shown are those with the three lowest values of STUACCID.

Student initiative entity: STUINITIDX

62. These fields indicate if a specific scheme is associated with the student, where X denotes the Student initiative entity. For example, STUINITID2 is the initiative identifier field (STUINITID) from the second Student initiative entity. The three shown are those with the three lowest values of STUINITID.

Funding body entity: FUNDINGBODYX

63. These fields indicate the funding body for this SCS, where X denotes the Funding body entity. For example, FUNDINGBODY2 is the funding body field (FUNDINGBODY) from the second Funding body entity. The three shown are those with the three lowest values of FUNDINGBODY.

Off venue activity entity: OVAIDX, Z_OVADAYSCSX, ACTTYPEIDX, MOBSCHEMEX, COUNTRYX

64. These fields indicate the:

- identifiers
- activity duration amounts
- activity type identifiers
- mobility schemes
- country in which the activity is taking place

for the off-venue activities for this SCS, where X denotes the Off venue activity entity. For example, OVAID2 is the identifier (OVAID) from the second Off venue activity entity. The three shown are those with the three largest values of Z_OVADAYSCS.

Session status entity: STATUSCHANGEDTOX, STATUSVALIDFROMX

65. These fields indicate the status the student has moved to in this SCS and the date which this status is valid from, where X denotes the Session status entity. For example, STATUSCHANGEDTO2 is the status changed to field (STATUSCHANGEDTO) from the second Session status entity. The three shown are those with the three most recent values of STATUSVALIDFROM.

Study location entity: STUDYLOCIDX, DISTANCEX, PRINONUKX

66. These fields indicate if the student is distance learning for at least part of this SCS, and if the student spends the majority of their Engagement outside of the UK and are currently outside the UK for this SCS respectfully, where X denotes the Study location entity. For example, DISTANCE2 is the distance learning field (DISTANCE) from the second Study location entity. The three shown are those with the three largest values of STUDYPROPORTION.

Linking between years

67. We have linked the 2022-23 data to earlier years' data using UKPRN, SID/HUSID and NUMHUS. This is to help account for definitional differences between the student record and HES data. HESLINKPYR is equal to 1 where records have been linked to 2021-22 data by this method.

68. The data from earlier years will be used to help determine the FTE for some students on standard years of instance who were on a non-standard year of instance in the previous year and for students on medical or dental programmes that have taken a foundation year.

69. We have also linked 2022-23 data to 2021-22 and 2020-21 data using the fields UKPRN and SID/HUSID, for the purpose of deriving HESNEWENTRANT.

INSTAPPYR

70. This field contains the indicator for funding approximations for 2021-22 (2021-22 INSTAPP).

STULOADPYR

71. This field contains the student instance FTE for 2021-22 (2021-22 STULOAD for records taken from 2021-22 HESA Student data, 2021-22 HESTULOAD_P1 (where HESEXCL32_P1 = 0) for records taken from 2021-22 HESA Student Alternative data).

LOADYRBPYR

72. This field contains the FTE in year B for 2021-22 (2021-22 LOADYRB).

TYPEYRPYR

73. This field contains the value of the type of year of instance for 2021-22 (2021-22 TYPEYR).

Student course session and engagement derived fields

74. Where a derived field applies to the engagement as a whole, the value of the derived field will be repeated across each SCS.

HESSCSNUM

75. The value of HESSCSNUM indicates the ranking of the SCS (as described in paragraphs 53-55 above) within a given year of engagement, with the first ranked SCS having a value of 1. The data associated with the first ranked SCS is used to define the year of engagement in the HESES22 population.

HESDISTANCE

76. This field indicates if the student is distance learning for at least part of this SCS.

Value	Description	Definition
1	Student is distance learning for at least part of this SCS	At least one value of DISTANCEX = 01, 02
0	Otherwise	Otherwise

HESENGSTARTDATE

77. This field contains the engagement's start date (ENGSTARTDATE) unless the engagement began with a preparatory course and is now in the main course.

Value	Description	Definition
SCSSTARTDATE of the first SCS that starts after the SCSENDDATE of the SCS where PREPFLAG = 01, 02, 03 and ENGSTARTDATE = SCSSTARTDATE	Engagement began with a preparatory course and is now in the main course	PREPFLAG = BLANK and another SCS exists for this combination of SID and NUMHUS where PREPFLAG = 01, 02, 03 and ENGSTARTDATE = SCSSTARTDATE
ENGSTARTDATE	Otherwise	Otherwise

HESANNIV

78. This field contains the anniversary of the engagement's start date (HESENGSTARTDATE) in the current academic year.

HESANNIVPYR

79. This field contains the anniversary of the engagement's start date (HESENGSTARTDATE) in the previous academic year.

HESLINKPYR

80. This field indicates if a successful link was made between the 2022-23 data and 2021-22 data that may inform the calculation of FTE for some students.

Value	Description
1	A link was made to 2021-22 data using the method described in paragraphs 67-69 of this document
0	Otherwise

HESYOENUM

81. This field uniquely identifies years of engagement when used in conjunction with UKPRN, SID and NUMHUS, and assigns SCSs to the appropriate year of engagement. This can happen where either the student is on a foundation degree bridging course that is countable in the year of engagement, or the student undertakes activity both before and after the anniversary of their commencement date and has not undertaken activity in the first year of engagement in the previous academic year (this latter case is only calculated for providers that submitted the Student return in 2021-22). These records are distinguished using HESYOENUM.

Value	Description	Definition
2	This SCS belongs to second countable year of engagement	PREPFLAG = 01, 02, 03 or (PREPFLAG = BLANK and SCSSTARTDATE < HESANNIV – 14 and SCSENDDATE < HESANNIV + 14 and SCSENDDATE ≠ BLANK and ((LOADYRBPYR = 0 and INSTAPPPYR = 1 and TYPEYRPYR = 2, 4) or ((STULOADPYR = 0, BLANK or HESLINKPYR = 0) and ENGSTARTDATE < 1 August 2021)))
0	Activity for this SCS does not fall within the 2022-23 year of engagement	SCSENDDATE < HESANNIV + 14 and SCSENDDATE ≠ BLANK and SCSSTARTDATE < HESANNIV – 14 and not above
1	This SCS belongs to first countable year of engagement	Otherwise

HESCRSELGTH

82. This field contains the expected length of the course in whole numbers of years, calculated from the difference between HESENGSTARTDATE and Z_EXPECTOEND. 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 number of years, 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. Where Z_EXPECTOEND is not calculated, HESCRSELGTH is set to 6.

HESAVRGCRSELGTH

83. This field shows the average HESCRSELGTH for this particular combination of UKPRN, COURSEID and HESYRZEROADJ. It is rounded to the nearest whole number.

HESNOTACTIVE

84. This field indicates if the student is dormant, intercalating or writing up for the entirety of this SCS.

Value	Description	Definition
1	Student is dormant, intercalating or writing up for the entirety of this SCS	Z_ACTANNSCS_CYC = 0 and HESYOENUM = 1 and ENGSTARTDATE < 18 July 2023
0	Otherwise	Otherwise

HESREG

85. 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 2022
2	Column 2 student	Otherwise

HESMODE

86. This field allocates students to a mode of study for this SCS.

Value	Description	Definition
SWOUT	Sandwich year out	SCSMODE = 01, 02, 03 and PREPFLAG = BLANK and PLACEMENT = 01, 02
FTS	Full-time	SCSMODE = 01, 03 and PREPFLAG = BLANK and (HESFTE_CASE ≠ 7 or (HESFTE_CASE = 7 and ENGENDDATE - HESANNIV ≥ 168)) and not above
PT	Part-time	Otherwise

HESPGLOANELIGIBILITY

87. This field identifies if the course related to this SCS is eligible for a postgraduate loan.

Value	Description	Definition
1	Course related to this SCS is eligible for a postgraduate loan	At least one value of COURSEINITIDX = 005 or at least one value of STUINITIDX = 005
0	Otherwise	Otherwise

HESACCREDARCTWO

88. This field identifies if the course related to this SCS is prescribed by the Architects Registration Board (ARB) at Part 2 level for the purpose of registration in the UK.

Value	Description	Definition
1	Course related to this SCS is prescribed by the Architects Registration Board (ARB) at Part 2 level for the purpose of registration in the UK	At least one value of CURACCIDX = 00103
0	Otherwise	Otherwise

HESHEALTHPROF1

89. This field identifies the profession of a nursing, midwifery and allied health course. Where there is more than one profession, the other profession is identified in HESHEALTHPROF2.

90. The CURACCIDXs for this SCS (including those not shown in the individualised file) are filtered to values 05808, 05809, 06903, 06904, 06906, 06907, 06908, 06910, 06912, 06915, 06917, 06918, 11102, 11103, 11104, 11105, 11106, 11108 and then sorted into ascending order. The first listed CURACCIDX for this SCS is used to calculate HESHEALTHPROF1.

91. Similarly the STUACCIDXs for this SCS (including those not shown in the individualised file) are filtered to values 11102, 11103, 11104, 11105, 11108 and then sorted into ascending order. The first listed STUACCIDX for this SCS is used to calculate HESHEALTHPROF1.

Value	Description	Definition
DENTHE	Dental therapy	First listed CURACCIDX = 05808
DENHYG	Dental hygiene	First listed CURACCIDX = 05809
DIETET	Dietetics	First listed CURACCIDX = 06904
NURSAD	Nursing - adult	First listed CURACCIDX = 11102 or (First listed CURACCIDX = 11108 and first listed STUACCIDX = 11102 for this SCS)
NURSCH	Nursing - children	First listed CURACCIDX = 11105 or (First listed CURACCIDX = 11108 and first listed STUACCIDX = 11105 for this SCS)
NURSLD	Nursing - learning disability	First listed CURACCIDX = 11104 or (First listed CURACCIDX = 11108 and first listed STUACCIDX = 11104 for this SCS)
NURSMH	Nursing - mental health	First listed CURACCIDX = 11103 or (First listed CURACCIDX = 11108 and first listed STUACCIDX = 11103 for this SCS)
NURSUN	Nursing - unclassified	First listed CURACCIDX = 11108 and not above
MIDWIF	Midwifery	First listed CURACCIDX = 11106
OCCTHE	Occupational therapy	First listed CURACCIDX = 06906
OPDEPT	Operating department practice	First listed CURACCIDX = 06907
ORTHOP	Orthoptics	First listed CURACCIDX = 06908
ORTPRO	Orthotics and prosthetics	First listed CURACCIDX = 06912

Value	Description	Definition
PHYSIO	Physiotherapy	First listed CURACCIDX = 06910
PODCHI	Podiatry	First listed CURACCIDX = 06903
RADTHE	Radiography (therapeutic)	First listed CURACCIDX = 06917
RADDIA	Radiography (diagnostic)	First listed CURACCIDX = 06918
SPELAN	Speech and language therapy	First listed CURACCIDX = 06915
BLANK	Otherwise	Otherwise

HESHEALTHPROF2

92. This field identifies the other profession of a nursing, midwifery and allied health course, where more than one profession exists.

93. Where a second CURACCIDX for this SCS is listed following the method in paragraph 90 and is in this list 05809, 11103, 11104, 11105 then HESHEALTHPROF2 is set as follows:

Value	Description	Definition
DENHYG	Dental hygiene	Second listed CURACCIDX = 05809
NURSCH	Nursing - children	Second listed CURACCIDX = 11105 or (First listed CURACCIDX = 11108 and second listed STUACCIDX = 11105 for this SCS)
NURSLD	Nursing - learning disability	Second listed CURACCIDX = 11104 or (First listed CURACCIDX = 11108 and second listed STUACCIDX = 11104 for this SCS)
NURSMH	Nursing - mental health	Second listed CURACCIDX = 11103 or (First listed CURACCIDX = 11108 and second listed STUACCIDX = 11103 for this SCS)
BLANK	Otherwise	Otherwise

HESLEVEL

94. This field allocates students to a level of study for this SCS.

Value	Description	Definition
UG_45	Undergraduate course at Level 4 or 5	PREREQUISITE = 01 and QUALCAT = C0000, C0001, C0002, C0003, C0004, C0005, C0006, C0007, C0009, I0002, I0004, I0005, I0006, I0007, I0008, I0009, I0010, I0013, J0000, J0001, J0002, J0003, J0004, J0005, J0006, J0007, J0010, J0012 and PREPFLAG = BLANK
UG_OTH	Other undergraduate course	PREREQUISITE = 01 and not above

Value	Description	Definition
PGT_UGF	Postgraduate taught and eligible under the undergraduate student support regime	PREREQUISITE = 02 and (NONREGFEE = BLANK or HESHEALTHPROF1 ≠ BLANK, DENTHE, DENHYG or HESHEALTHPROF2 ≠ BLANK, DENTHE, DENHYG)
PGT_ML	Postgraduate taught course eligible for masters' loans	PREREQUISITE = 02 and HESPGLOANELIGIBILITY = 1 and (QUALCAT = M0003, M0004, M0006, M0007 or HESACCREDARCTWO = 1) and not above
PGT_OTH	Postgraduate taught course that does not fall under the previous two categories	PREREQUISITE = 02 and not above
PGR	Postgraduate research	PREREQUISITE = 03

HESEC

95. This field indicates whether a student has a UK, Crown Dependencies, Ireland, EU, or other domicile.

Value	Description	Definition
UK	UK-domiciled	PERMADDCOUNTRY = XF, XG, XH, XI, XK
CROWN	Crown Dependencies domiciled	PERMADDCOUNTRY = GG, IM, JE, XL
IE	Irish nationals domiciled in Ireland	PERMADDCOUNTRY = IE and NATION = IE
OEU	Other Home and EU domiciled	PERMADDCOUNTRY = 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 and not above
OTHER	Otherwise	Otherwise

HESTYPE

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

Value	Description	Definition
HOMEF	Home fee OfS-fundable	At least one value of FUNDINGBODYX = 5016

Value	Description	Definition
HOMENF	Home fee non-fundable	(FEEELIG = 01 or (FEEELIG = 03 and (HESEC = UK, IE or (HESEC = CROWN and HESDISTANCE = 0) or (HESEC = OEU and ENGSTARTDATE < 1 August 2021)))) and not above
ISOV	Overseas	Otherwise

HESLENGTH

97. This field indicates whether the student is on a standard or long year of engagement.

Value	Description	Definition
L	Long	FUNDLENGTH = 01
S	Standard	Otherwise

Student course session exclusions

98. Each SCS is assessed to determine whether it is included in the HESES22 population. The following derived fields explain the reasons for a SCS being excluded.

HESSCSEXCL1

99. Field indicating that a qualification aim of National Vocational Qualification (NVQ) or Qualified Teacher Status (QTS) only, or visiting students, is associated with the SCS.

Value	Description	Definition
1	NVQ or QTS only or visiting student qualification aim associated with the SCS	QUALCAT = C0004, D0005, E0001, E0005, H0008, H0020, I0005, I0007, I0013, J0006, J0007, L0003, M0011, M0013, M0024
0	Otherwise	Otherwise

HESSCSEXCL2

100. Field indicating that the SCS is explicitly excluded from the HESES population.

Value	Description	Definition
1	SCS explicitly excluded from the HESES population	FUNDLENGTH = 96
0	Otherwise	Otherwise

HESSCSEXCL4

101. Field indicating student is taught primarily outside of the UK for the engagement and is outside of the UK for at least some of the SCS.

Value	Description	Definition
1	Student taught mostly outside the UK for the SCS	At least one value of PRINONUKX = 01
0	Otherwise	Otherwise

HESSCSEXCL8

102. Field indicating student is dormant, intercalating or writing up for the entirety of the SCS.

Value	Description	Definition
1	Student who is dormant or writing up for the SCS	HESNOTACTIVE = 1 or RPSTULOAD = 0 or (PREPFLAG = 01, 02, 03 and SCSENDDATE = BLANK)
0	Otherwise	Otherwise

HESSCSEXCL16

103. Activity for the SCS does not fall within the 2022-23 year of engagement.

Value	Description	Definition
1	Activity for this SCS does not fall within the 2022-23 year of engagement	HESYOENUM = 0
0	Otherwise	Otherwise

HESSCSEXCL32

104. Field indicating where an SCS belongs to the same year of engagement as the previous SCS.

Value	Description	Definition
1	The SCS belongs to the same year of engagement as the previous SCS	SCSENDDATE – SCSSTARTDATE < 14 and ENGSTARTDATE < 1 August 2022 and RSNENGEND = 01, 98
0	Otherwise	Otherwise

HESSCSEXCL

105. This field indicates whether the SCS is included in the HESES22 population. For SCSs excluded from the population, HESSCSEXCL contains the sum of all applicable values from the table below.

Value	Description	Definition
1	NVQ or QTS only or visiting student qualification aim associated with the SCS	HESSCSEXCL1 = 1

Value	Description	Definition
2	SCS explicitly excluded from the HESES population	HESSCSEXCL2 = 1
4	Student taught mostly outside the UK for the SCS	HESSCSEXCL4 = 1
8	Student who is dormant or writing up for the SCS	HESSCSEXCL8 = 1
16	Activity for the SCS does not fall within the 2022-23 year of engagement	HESSCSEXCL16 = 1
32	The SCS belongs to the same year of engagement as the previous SCS	HESSCSEXCL32 = 1
0	Otherwise	None of the above

106. This field contains the exclusion reason(s) for the SCS. It is calculated as $(1 \times \text{HESSCSEXCL1}) + (2 \times \text{HESSCSEXCL2}) + \dots + (32 \times \text{HESSCSEXCL32})$. The reason(s) which contribute to the exclusion of an SCS can therefore be calculated. For example, if $\text{HESSCSEXCL} = 10$, by subtracting figures from the above table and starting at the bottom, we see that the SCS is associated with a student who is dormant or writing up ($\text{HESSCSEXCL8} = 1$) and who is explicitly excluded from the HESES population ($\text{HESSCSEXCL2} = 1$).

Calculation of FTE

HESFTE_CASE

107. For part-time years of engagement the method used to calculate HESFTE is dependent on the following factors:

- Number of countable years of engagement generated in the HESES recreation.
- Whether the year of engagement countable in the current academic year is standard or non-standard.
- Whether the engagement started in the current academic year.
- Whether the year of engagement is a preparatory course.

The table below shows how we identify different cases of the FTE calculation.

Value	Description	Definition
1	Standard year of engagement	$\text{HESYOENUM} = 1$ and $\text{SCSSTARTDATE} \geq \text{HESANNIV} - 14$ and $\text{SCSENDDATE} \neq \text{BLANK}$
2	Non-standard year of engagement and an engagement that starts in the current academic year	$\text{HESYOENUM} = 1$ and $\text{SCSSTARTDATE} \geq \text{HESANNIV} - 14$ and $\text{SCSENDDATE} = \text{BLANK}$ and $\text{HESENGSTARTDATE} > 31 \text{ July } 2022$
3	Non-standard year of engagement and an engagement that does not start in the current academic year	$\text{HESYOENUM} = 1$ and $\text{SCSSTARTDATE} \geq \text{HESANNIV} - 14$ and $\text{SCSENDDATE} = \text{BLANK}$ and $\text{HESENGSTARTDATE} < 1 \text{ August } 2022$

Value	Description	Definition
4	Year of engagement is a foundation degree bridging course	HESYOENUM = 2 and PREPFLAG = 01 and SCSENDDATE ≠ BLANK
5	Year of engagement is another preparatory course	HESYOENUM = 2 and PREPFLAG = 02, 03 and SCSENDDATE ≠ BLANK
6	Year of engagement with activity before the anniversary (where student undertakes activity both before and after the anniversary of their commencement date and has not undertaken activity in the first year of engagement in the previous academic year)	HESYOENUM = 2 and PREPFLAG = BLANK
7	Year of engagement where the student joined a new cohort earlier in the engagement and has finished the engagement in this reporting period	HESYOENUM = 1 and ENGENDDATE ≠ BLANK and ENGENDDATE < 1 August 2023 and ENGENDDATE ≥ HESANNIV + 14 and SCSSTARTDATE < 1 August 2022 and SCSSTARTDATE ≥ HESANNIVPYR + 14 and not above
8a	Year of engagement where the student has started the engagement in this reporting period and started at a later point than the rest of their cohort	HESYOENUM = 1 and SCSENDDATE ≠ BLANK and HESENGSTARTDATE > 31 July 2022 and HESENGSTARTDATE > SYSTARTDATE + 14 and not above
8b	Year of engagement where the student started their engagement in a previous reporting period and started the engagement at a later point than the rest of their cohort	HESYOENUM = 1 and SCSENDDATE ≠ BLANK and HESENGSTARTDATE < 1 August 2022 and HESANNIV > SYSTARTDATE + 14 and (ENGENDDATE = BLANK or ENGENDDATE ≥ 1 August 2023) and not above
8c	Year of engagement where the student started their engagement in a previous reporting period, started the engagement at a later point than the rest of their cohort and has ended it in this reporting period	HESYOENUM = 1 and SCSENDDATE ≠ BLANK and HESENGSTARTDATE < 1 August 2022 and HESANNIV > SYSTARTDATE + 14 and (ENGENDDATE ≠ BLANK and ENGENDDATE < 1 August 2023) and not above
9	Year of engagement where the student started their engagement in a previous reporting period, and the start of their session year is before the anniversary of their start date, and not above	HESYOENUM = 1 and SCSENDDATE = BLANK and HESENGSTARTDATE < 1 August 2022 and HESANNIV > SYSTARTDATE + 14 and and not above

HESSTULOAD_INPOP

108. This field shows the sum of RPSTULOAD for every SCS in this year of engagement (that is, SCSs with the same value of HESYOENUM) where HESSCSEXCL = 0.

HESPROP1

109. This field contains the estimate of the proportion of RPSTULOAD that is allocated to the countable year of engagement and is used for some students in their final year (those where HESFTE_CASE = 7).

Value	Description	Definition
$((\text{ENGENDDATE} - \text{HESANNIV}) + 1) / ((\text{ENGENDDATE} - 1 \text{ August } 2022) + 1)$	Estimate of proportion of RPSTULOAD allocated to countable year of engagement	HESFTE_CASE = 7
BLANK	Not calculated	Otherwise

HESPROP2

110. This field contains the estimate of the proportion of RPSTULOAD that is allocated to the countable year of engagement and is used for some students in their final year (those where HESFTE_CASE = 8c).

Value	Description	Definition
$((\text{ENGENDDATE} - \text{HESANNIV}) + 1) / ((\text{ENGENDDATE} - \text{SCSSTARTDATE}) + 1)$	Estimate of proportion of RPSTULOAD allocated to countable year of engagement	HESFTE_CASE = 8c
BLANK	Not calculated	Otherwise

HESAVRGFTEPOP

111. HESAVRGFTEPOP is used to identify students who are on non-standard years, with a RPSTULOAD for the SCS with (HESSCSNUM = 1) of greater than 0 and who are part of the HESES population. These students are then used to calculate the average FTE to apply to students on non-standard years of engagement that start in the current academic year or years of engagement where the student has started the engagement in this reporting period and started at a later point than the rest of their cohort (HESFTE_CASE = 2, 8a).

112. The 2022-23 average FTE population is defined as follows:

Value	Description	Definition
1	In the 2022-23 average FTE population	HESSCSNUM = 1 and HESYOENUM = 1 and SCSENDDATE = BLANK and HESENGSTARTDATE < 1 August 2022 and Z_STULOAD_CYC ≠ 0 and FUNDLLENGTH ≠ 96 and STATUSCHANGEDTO1 = BLANK, 01 and HESMODE = PT
0	Otherwise	Otherwise

HESAVRGFTEYPE

113. This field identifies the level at which HESAVRGFTE is calculated.

Value	Description
1	Level 1 – There are 10 or more students in the average FTE population (HESAVRGFTEPOP = 1) at a given provider (UKPRN) who have the same qualification category (QUALCAT), mode (SCSMODE), and expected course length (HESCRSELGTH).
2	Level 2 – There are 10 or more students in the average FTE population (HESAVRGFTEPOP = 1) at a given provider (UKPRN) who have the same qualification category (QUALCAT) and not above.
3	Level 3 – There are 10 or more students in the average FTE population (HESAVRGFTEPOP = 1) at a given provider (UKPRN) who have the same level of study (HESLEVEL) and not above.
4	Level 4 – Level of study (HESLEVEL) in the 2021-22 average FTE population and not above. For Levels of study UG_45 and UG_OTH records will be matched with the UG average population from 2021-22.

114. The 2021-22 average FTE population is defined as follows for 2021-22 HESA Student data:

2021-22 TYPEYR ≠ 1 and

2021-22 COMDATE < 1 August 2021 and

2021-22 ENDDATE = BLANK and

2021-22 HESCOMP ≠ 3 and

2021-22 HESEXCL = 0 and

2021-22 MODE ≠ 43, 44, 51, 73, 74 and

2021-22 HESMODE = PT.

115. The 2021-22 average FTE population is defined as follows for 2021-22 HESA Student Alternative data. Note that for each instance in the population 2021-22 STULOAD is calculated by summing HESSTULOAD_PX for instance periods where (HESEXCL_PX = 0, 32):

2021-22 COMDATE < 1 August 2021 and

2021-22 ENDDATE = BLANK and

2021-22 HESCOMP ≠ 3 and

2021-22 HESEXCL = 0 and

2021-22 HESMODE_P1 ≠ 43, 44 and

2021-22 HESMODE = PT.

HESAVRGFTE

116. This field gives the average Z_STULOAD_CYC for the population identified in HESAVRGFTETYPE.

117. Note: HESAVRGFTE is calculated for all students, however it is only used to calculate HESESFTE for non-standard years of engagement that start in the current academic year or years of engagement where the student has started the engagement in this reporting period and started at a later point than the rest of their cohort (HESFTE_CASE = 2, 8a).

Example

118. A provider only has 46 students in the 2022-23 average FTE population.

UKPRN	QUALCAT	SCSMODE	HESCRSELGTH	TOTAL
10000000	H0003	31	2	9
10000000	H0003	31	3	12
10000000	H0003	31	1	25

119. For a student at this provider with QUALCAT = H0003, SCSMODE = 31, HESCRSELGTH = 1, HESAVRGFTETYPE would be 1 as there are more than 9 students in the average FTE population that match on QUALCAT, SCSMODE and HESCRSELGTH.

120. For a student at this provider with QUALCAT = H0003, SCSMODE = 31, HESCRSELGTH = 2, HESAVRGFTETYPE would be 2 as there are fewer than 10 students in the average FTE population that match on QUALCAT, SCSMODE and HESCRSELGTH, but there are more than 9 (46) that match on QUALCAT alone.

HESESFTE

121. This field contains the FTE counted for the year of engagement. HESESFTE is capped at 100.

Value	Definition
30	HESFTE_CASE = 4
RPSTULOAD	HESFTE_CASE = 5, 9
100	HESMODE = FTS and not above
50	HESMODE = SWOUT and not above
HESSTULOAD_INPOP	HESFTE_CASE = 1, 6 and not above

Value	Definition
HESAVRGFTE	HESFTE_CASE = 2, 8a and not above
Z_STULOAD_CYC	HESFTE_CASE = 3, 8b and not above
RPSTULOAD × HESPROP1	HESFTE_CASE = 7
RPSTULOAD × HESPROP2	HESFTE_CASE = 8c
0	Otherwise

Calculation of price groups

HESMDV

122. This field identifies pre-clinical and clinical medicine, dentistry and veterinary science students by seeing if the course related to this SCS is a primary medical qualification which entitles the holder to apply to the GMC for registration to practise medicine in the UK, enables eligibility for registration with the GDC as a dentist or enables eligibility for registration with the RCVS as a veterinary surgeon.

Value	Description	Definition
MED	Pre-clinical or clinical medicine student	At least one value of CURACCIDX = 05901
DEN	Pre-clinical or clinical dentistry student	At least one value of CURACCIDX = 05803
VET	Pre-clinical or clinical veterinary science student	At least one value of CURACCIDX = 12001
OTH	Otherwise	Otherwise

HESYZERO

123. This field indicates the year in which a student last took a foundation year (YEARPRG = 0) as part of this engagement. For students who have not taken a foundation year, this field is blank. We have linked back to 2005-06 HESA Student data.

HESYZEROADJ

124. This field indicates whether the student took a foundation year (YEARPRG = 0) as part of this engagement since 2005-06.

Value	Description	Definition
1	Foundation year taken as part of engagement	HESYZERO ≠ BLANK or (YEARPRG = 0 and PREPFLAG = BLANK)
0	Otherwise	Otherwise

HESCLIN

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

Value	Description	Definition
1	Activity assigned to price group A for students on a first registrable medical qualification, first registrable dental qualification or course which leads to eligibility to register to practise as a veterinary surgeon	(HESMDV = MED and (HESAVRGCRSELGTH – YEARPRG – HESYZEROADJ) = 0, 1, 2) or (HESMDV = DEN and (HESAVRGCRSELGTH – YEARPRG – HESYZEROADJ) = 0, 1, 2, 3) or (HESMDV = VET and (HESAVRGCRSELGTH – YEARPRG – HESYZEROADJ) = 0, 1, 2, 3, 4)
2	Postgraduate clinical medicine or dentistry student assigned to price group A	HESMDV = OTH and HESLEVEL = PGR, PGT_ML, PGT_OTH, PGT_UGF and (QUALSUBJECT1 = 100266, 100267, 100494 or QUALSUBJECT2 = 100266, 100267, 100494 or QUALSUBJECT3 = 100266, 100267, 100494 or QUALSUBJECT4 = 100266, 100267, 100494 or QUALSUBJECT5 = 100266, 100267, 100494)
3	Postgraduate clinical veterinary science student assigned to price group A	HESMDV = OTH and HESLEVEL = PGR, PGT_ML, PGT_OTH, PGT_UGF and (QUALSUBJECT1 = 100531, 101347 or QUALSUBJECT2 = 100531, 101347 or QUALSUBJECT3 = 100531, 101347 or QUALSUBJECT4 = 100531, 101347 or QUALSUBJECT5 = 100531, 101347)
0	Otherwise	Otherwise

HESACCREDSOCIAL

126. This field identifies if the course related to this SCS is for social work that can be mapped to price group C2.

Value	Description	Definition
1	Course related to this SCS is for social work that can be mapped to price group C2	At least one value of CURACCIDX = 02202, 02203, 06921, 06922, 11001, 11110, 13001
0	Otherwise	Otherwise

HESPRGA, HESPRGB, HESPRGC11, HESPRGC12, HESPRGC2, HESPRGD

127. The proportion of activity in each price group. The Common Aggregation Hierarchy (CAH) codes listed include all sub-levels, unless otherwise stated. Where the sum of QUALPROPORTION1-5 is not equal to 100, the proportions returned are converted to percentages and the resulting values are used in place of QUALPROPORTION1-5 in what follows. For each QUALPROPORTIONX associated with QUALSUBJECTX, QUALPROPORTIONX is replaced with QUALPROPORTIONX multiplied by 100 and divided by the sum of all QUALPROPORTIONs. Where the sum of the updated proportions do not sum to 100, round down/up respectively the subject with the lowest HECoS code so that the sum exactly equals 100.

Field name	Definition	Value
HESPRGC2	HESMODE = SWOUT	1
HESPRGA	HESCLIN = 1, 2, 3 or HESHEALTHPROF1 = DENHYG or HESHEALTHPROF2 = DENHYG or (HESHEALTHPROF1 = DENTHE and HESLEVEL = UG_45, UG_OTH) or (HESHEALTHPROF2 = DENTHE and HESLEVEL = UG_45, UG_OTH) and not above	1
HESPRGB	HESHEALTHPROF1 = DENTHE, DIETET, MIDWIF, OCCTHE, OPDEPT, ORTHOP, ORTPRO, PHYSIO, PODCHI, RADTHE, RADDIA, SPELAN or HESHEALTHPROF2 = DENTHE, DIETET, MIDWIF, OCCTHE, OPDEPT, ORTHOP, ORTPRO, PHYSIO, PODCHI, RADTHE, RADDIA, SPELAN and not above	1
HESPRGC11	HESHEALTHPROF1 = NURSUN, NURSAD, NURSCH, NURSLD, NURSMH or HESHEALTHPROF2 = NURSUN, NURSAD, NURSCH, NURSLD, NURSMH and not above	1
HESPRGC2	TTCID = 01, 02, 06 or (TTCID = 03 and QTS = 02) or HESACCREDSOCIAL = 1 and not above	1

Field name	Definition	Value
HESPRGB	<p>QUALSUBJECTX corresponds to one of the following Common Aggregation Hierarchy codes:</p> <p>CAH01, CAH02-02, CAH02-05, CAH02-06-01, CAH02-06-02, CAH02-06-03, CAH02-06-06 (only when QUALSUBJECTX = 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 QUALSUBJECTX = 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 QUALSUBJECTX = 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 QUALSUBJECTX = 100186, 100222, 100230, 100560, 101356), CAH10-03-07, CAH15-01-04 (only when QUALSUBJECTX = 101218), CAH26-01-04, CAH26-01-06</p> <p>and not above</p>	<p>Sum of QUALPROPORTION1, QUALPROPORTION2, QUALPROPORTION3, QUALPROPORTION4, QUALPROPORTION5 divided by 100</p>
HESPRGC11	<p>QUALSUBJECTX corresponds to one of the following Common Aggregation Hierarchy codes:</p> <p>CAH11, CAH20-01-03, CAH26-01-05 (only when QUALSUBJECTX = 100369)</p> <p>and not above</p>	<p>Sum of QUALPROPORTION1, QUALPROPORTION2, QUALPROPORTION3, QUALPROPORTION4, QUALPROPORTION5 divided by 100</p>
HESPRGC12	<p>QUALSUBJECTX corresponds to one of the following Common Aggregation Hierarchy codes:</p> <p>CAH10-01-03 (only when QUALSUBJECTX = 100109, 100110), CAH24-01-01, CAH24-01-03, CAH24-01-04, CAH24-01-05, CAH25</p> <p>and not above</p>	<p>Sum of QUALPROPORTION1, QUALPROPORTION2, QUALPROPORTION3, QUALPROPORTION4, QUALPROPORTION5 divided by 100</p>

Field name	Definition	Value
HESPRGC2	<p>QUALSUBJECTX 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 QUALSUBJECTX = 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 QUALSUBJECTX = 100213), CAH10-01-07 (only when QUALSUBJECTX = 100219, 100548, 100549, 101048), CAH10-03-06 (only when QUALSUBJECTX = 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 QUALSUBJECTX = 101056)</p> <p>and not above</p>	<p>Sum of QUALPROPORTION1, QUALPROPORTION2, QUALPROPORTION3, QUALPROPORTION4, QUALPROPORTION5 divided by 100</p>
HESPRGD	<p>QUALSUBJECTX 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 QUALSUBJECTX = 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>	<p>Sum of QUALPROPORTION1, QUALPROPORTION2, QUALPROPORTION3, QUALPROPORTION4, QUALPROPORTION5 divided by 100</p>

Engagement exclusions

128. The engagement is assessed to determine whether it is included in the HESES22 population. The following derived fields explain the reasons for an engagement being excluded.

HESENGEXCL1

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

Value	Description	Definition
1	Student not active in academic year	ENGENDDATE ≠ BLANK and ENGENDDATE < 1 August 2022

Value	Description	Definition
0	Otherwise	Otherwise

HESENGEXCL2

130. Field indicating incoming exchange student for the engagement.

Value	Description	Definition
1	Incoming exchange student	INCOMINGEXCHANGE = 01, 02, 03
0	Otherwise	Otherwise

HESENGEXCL4

131. Field indicating students with an FTE of less than 0.03.

Value	Description	Definition
1	Student with an FTE of less than 0.03	HESESFTE < 3
0	Otherwise	Otherwise

HESENGEXCL8

132. Field indicating students who withdrew before 2 December 2022 or left within 14 days of starting the engagement without completing.

Value	Description	Definition
1	Student who withdrew before 2 December 2022 or left within 14 days of starting the engagement without completing	ENGENDDATE ≠ BLANK and (ENGENDDATE < 2 December 2022 or ENGENDDATE – ENGSTARTDATE < 14) and RSNENGEND ≠ 01, 98
0	Otherwise	Otherwise

HESENGEXCL

133. This field indicates whether the engagement is included in the HESES22 population. For engagements excluded from the population, HESENGEXCL contains the sum of all applicable values from the table below.

Value	Description	Definition
1	Student not active in academic year	HESENGEXCL1 = 1
2	Incoming exchange student	HESENGEXCL2 = 1
4	Student with a total FTE of less than 3	HESENGEXCL4 = 1
8	Student who withdrew before 2 December 2022 or left within 14 days of starting the engagement without completing	HESENGEXCL8 = 1
0	Otherwise	None of the above

134. This field contains the exclusion reason(s) for the engagement. It is calculated as $(1 \times \text{HESENGEXCL1}) + (2 \times \text{HESENGEXCL2}) + \dots + (8 \times \text{HESENGEXCL8})$. The reason(s) which contribute to the exclusion of an engagement can therefore be calculated. For example, if $\text{HESENGEXCL} = 6$, by subtracting figures from the above table and starting at the bottom, we see that the student has a total FTE of less than 3 ($\text{HESENGEXCL4} = 1$) and the student is an incoming exchange student ($\text{HESENGEXCL2} = 1$).

Overall exclusions

HESEXCL

135. This field is calculated for each SCS and shows the overall inclusion or exclusion of this SCS.

Value	Description	Definition
0	Both the SCS and the engagement to which it belongs are in the HESES22 population	$\text{HESSCSEXCL} = 0$ and $\text{HESENGEXCL} = 0$
1	The SCS is not included in the HESES22 population, but the engagement to which it belongs is in the HESES22 population	$\text{HESSCSEXCL} \neq 0$ and $\text{HESENGEXCL} = 0$
2	The SCS is included in the HESES22 population, but the engagement to which it belongs is not included in the HESES22 population	$\text{HESSCSEXCL} = 0$ and $\text{HESENGEXCL} \neq 0$
4	Neither the SCS nor the engagement to which it belongs is included in the HESES22 population	$\text{HESSCSEXCL} \neq 0$ and $\text{HESENGEXCL} \neq 0$

Table 4 recreation algorithms

HESWORKWKSABROADX

136. These fields record the maximum number of weeks that may be spent working abroad for the off-venue activities for this SCS, where X denotes the off-venue activity (activities are ordered by descending $Z_OVADAYSCS$, and the off-venue activity entity represented by X in HESWORKWKSABROADX is the same off-venue activity entity identified in OVAIDX). The number of off-venue activities is unbounded; due to file size restrictions we only show information for the three longest off-venue activities in the individualised file.

Value	Description	Definition
$Z_OVADAYSCSX \div 7$	The off-venue activity is spent working abroad	$\text{ACTTYPEIDX} = 02, 03$ and $\text{COUNTRYX} \neq \text{GB, XF, XG, XH, XI, XK}$
0	The off-venue activity is not spent working abroad	Otherwise

HESTOTWORKWKSABROAD

137. This field records the total number of weeks spent working abroad during this year of engagement. HESTOTWORKWKSABROAD is the sum of all HESWORKWKSABROADX

values for SCSs where HESSCSEXCL = 0, including those calculated for off-venue activities not shown in the individualised file (due to the file size restriction).

HESWORKWKSUKX

138. These fields record the maximum number of weeks that may be spent working in the UK for the off-venue activities for this SCS, where X denotes the off-venue activity (activities are ordered by descending Z_OVADAYSCS, and the off-venue activity entity represented by X in HESWORKWKSUKX is the same off-venue activity entity identified in OVAIDX). The number of off-venue activities is unbounded; due to file size restrictions we only show information for the three longest off-venue activities in the individualised file.

Value	Description	Definition
Z_OVADAYSCSX ÷ 7	The off-venue activity is spent working in the UK	ACTTYPEIDX = 02, 03 and COUNTRYX = GB, XF, XG, XH, XI, XK
0	The off-venue activity is not spent working in the UK	Otherwise

HESTOTWORKWKSUK

139. This field records the total number of weeks spent working in the UK during this year of engagement. HESTOTWORKWKSUK is the sum of all HESWORKWKSUKX values for this engagement for SCSs where HESSCSEXCL = 0, including those calculated for off-venue activities not shown in the individualised file (due to the file size restriction).

HESWKSABROADX

140. These fields record the number of weeks that are spent working or studying abroad for the off-venue activities for this SCS, where X denotes the off-venue activity (activities are ordered by descending Z_OVADAYSCS, and the off-venue activity entity represented by X in HESWKSABROADX is the same off-venue activity entity identified in OVAIDX). The number of off-venue activities is unbounded; due to file size restrictions we only show information for the three longest off-venue activities in the individualised file.

Value	Description	Definition
Z_OVADAYSCSX ÷ 7	The off-venue activity is spent abroad	COUNTRYX ≠ GB, XF, XG, XH, XI, XK
0	The off-venue activity is not spent abroad	Otherwise

HESTOTWKS

141. This field records the total number of weeks spent abroad or on a work placement in the UK during this academic year. HESTOTWKS is the sum of all HESWKSABROADX and HESWORKWKSUKX values for this academic year, including those calculated for off-venue activities not shown in the individualised file (due to the file size restriction).

HESSCSYATYPE

142. This field identifies if the SCS is for an outgoing Erasmus+ or Turing year abroad.

Value	Description	Definition
1	SCS contains a work placement spent abroad taken under the Erasmus+ or Turing Scheme	At least one occurrence of MOBSCHEMEX = 03, 05 (and ACTTYPEIDX = 02, 03 and COUNTRYX ≠ GB, XF, XG, XH, XI, XK for such a mobility) across all mobilities in this SCS
2	SCS contains a period of study spent abroad taken under the Erasmus+ or Turing Scheme and not above	At least one occurrence of MOBSCHEMEX = 03, 05 (and COUNTRY ≠ GB, XF, XG, XH, XI, XK for such a mobility) across all mobilities in this SCS and not above
0	Otherwise	Otherwise

HESYATYPE

143. This field identifies Erasmus+ or Turing years abroad.

Value	Description	Definition
ERASMUS_WORK	Outgoing Erasmus+ or Turing year abroad, including a period spent working abroad	HESSCSYATYPE = 1 for at least one SCS with HESSCSEXCL = 0
ERASMUS_OTH	Outgoing Erasmus+ or Turing year abroad and not above	HESSCSYATYPE = 2 for at least one SCS in this engagement with HESSCSEXCL = 0 and not above
OTHER	Otherwise	Otherwise

HESYAPOP

144. This field indicates if the year of engagement is included in the count of years abroad included in Table 4.

Value	Description	Definition
1	Student on year abroad	HESEXCL = 0 and HESLEVEL = UG_45, UG_OTH and HESTYPE ≠ ISOV and ((HESMODE = FTS and (STUDYABROAD = 01 or (STUDYABROAD = 02 and HESTOTWKS > 30))) or (HESMODE = SWOUT and ((HESTOTWORKWKSABROAD > 0 and HESTOTWORKWKSUK = 0, BLANK) or HESYATYPE = ERASMUS_WORK)))
0	Otherwise	Otherwise

Table 5 recreation algorithms

HESRESSTAT

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

Value	Description	Definition
HOMEF_UK	OfS-fundable, UK-domiciled	HESTYPE = HOMEF and HESEC = UK
HOMEF_OTH	OfS-fundable, Other	HESTYPE = HOMEF and not above
HOMENF_UK	Non-fundable, UK-domiciled	HESTYPE = HOMENF and HESEC = UK
HOMENF_OTH	Non-fundable, Other	HESTYPE = HOMENF and not above
ISOV	Overseas	HESTYPE = ISOV

HESBROADLEVEL

146. This field shows the broad level of study in 2022-23 for the purpose of determining new entrant status.

Value	Description	Definition
UG	Undergraduate	HESLEVEL = UG_45, UG_OTH
PGT	Postgraduate taught	HESLEVEL = PGT_UGF, PGT_ML, PGT_OTH
PGR	Postgraduate research	HESLEVEL = PGR

HESUGPYR2

147. This field indicates how many undergraduate taught years of engagement for a higher education course recognised for OfS funding purposes were associated with the UKPRN and SID/HUSID in the 2020-21 HESA Student/Student Alternative record (HESLEVEL in 2020-21 = UG and HESEXCL in 2020-21 = 0). This field will be blank if no HESA Student/Student Alternative data is available for the provider in 2020-21.

HESUGPYR

148. This field indicates how many undergraduate taught years of engagement for a higher education course recognised for OfS funding purposes were associated with the UKPRN and SID/HUSID in the 2021-22 HESA Student/Student Alternative record (HESLEVEL in 2021-22 = UG and HESEXCL in 2021-22 = 0). This field will be blank if no HESA Student/Student Alternative data is available for the provider in 2021-22.

HESPGTPYR2

149. This field indicates how many postgraduate taught years of engagement for a higher education course recognised for OfS funding purposes were associated with the UKPRN and SID/HUSID in the 2020-21 HESA Student/Student Alternative record (HESLEVEL in 2020-21 = PGT_ML, PGT_OTH, PGT_UGF and HESEXCL in 2020-21 = 0). This field will be blank if no HESA Student/Student Alternative data is available for the provider in 2020-21.

HESPGTPYR

150. This field indicates how many postgraduate taught years of engagement for a higher education course recognised for OfS funding purposes were associated with the UKPRN and SID/HUSID in the 2021-22 HESA Student/Student Alternative record (HESLEVEL in 2021-22 = PGT_ML, PGT_OTH, PGT_UGF and HESEXCL in 2021-22 = 0). This field will be blank if no HESA Student/Student Alternative data is available for the provider in 2021-22.

HESPGRPYR2

151. This field indicates how many postgraduate research taught years of engagement for a higher education course recognised for OfS funding purposes were associated with the UKPRN and SID/HUSID in the 2020-21 HESA Student/Student Alternative record (HESLEVEL in 2020-21 = PGR and HESEXCL in 2020-21 = 0). This field will be blank if no HESA Student/Student Alternative data is available for the provider in 2020-21.

HESPGRPYR

152. This field indicates how many postgraduate research taught years of engagement for a higher education course recognised for OfS funding purposes were associated with the UKPRN and SID/HUSID in the 2021-22 HESA Student/Student Alternative record (HESLEVEL in 2021-22 = PGR and HESEXCL in 2021-22 = 0). This field will be blank if no HESA Student/Student Alternative data is available for the provider in 2021-22.

HESNEWENTRANT

153. 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 SID/HUSID	HESENGSTARTDATE > 31 July 2022 and HESEXCL = 0 and ((HESBROADLEVEL = UG and HESUGPYR2 = 0, BLANK and HESUGPYR = 0, BLANK) or (HESBROADLEVEL = PGT and HESPGTPYR2 = 0, BLANK and HESPGTPYR = 0, BLANK)) or (HESBROADLEVEL = PGR and HESPGRPYR2 = 0, BLANK and HESPGRPYR = 0, BLANK))
0	Otherwise	Otherwise

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

Tables 6a and 6c re-creation algorithms

HESHEALTHPROP1

155. This field shows the proportion of the student's activity that is allocated to the health profession shown in HESHEALTHPROP1.

Value	Definition
1	(HESHEALTHPROP1 ≠ BLANK and HESHEALTHPROP2 = BLANK) or HESHEALTHPROP1 = DENTHE
0.5	HESHEALTHPROP1 ≠ BLANK and HESHEALTHPROP2 ≠ BLANK, DENTHE and not above
0	Otherwise

HESHEALTHPROP2

156. This field shows the proportion of the student's activity that is allocated to the health profession shown in HESHEALTHPROP2.

Value	Definition
1	(HESHEALTHPROP1 = BLANK and HESHEALTHPROP2 ≠ BLANK) or HESHEALTHPROP2 = DENTHE
0.5	HESHEALTHPROP1 ≠ BLANK, DENTHE and HESHEALTHPROP2 ≠ BLANK and not above
0	Otherwise

HESHEALTHYEAR

157. This field identifies whether the student started their course in 2022-23 or another academic year.

Value	Description	Definition
2022-23	Student started in the 2022-23 academic year	HESENGSTARTDATE > 31 July 2022
OTHER	Otherwise	Otherwise

HESHEALTHPOP

158. This field identifies students that will be included in Tables 6a and 6c. The population is defined in the HESES22 guidance (Annex L, paragraph 1).

Value	Description	Definition
1	Included in Tables 6a and 6c	HESEXCL = 0 and (UKPRN ≠ 10007773 or (UKPRN = 10007773 and PERMADDCOUNTRY ≠ XG, XH, XI)) and QUALCAT = H0003, H0004, H0005, H0010, I0001, J0002, M0002, M0003, M0006, M0015, M0021 and (HESLEVEL = UG_45, UG_OTH, PGT_UGF or (HESLEVEL = PGT_ML and (HESHEALTHPROF1 = DENTHE or HESHEALTHPROF2 = DENTHE))) and HESTYPE = HOMEF, HOMENF and (HESHEALTHPROF1 ≠ BLANK or HESHEALTHPROF2 ≠ BLANK)
0	Otherwise	Otherwise

Table 7 re-creation algorithms

159. Until 2022-23 ILR R14 data is received, the Table 7 re-creation will contain only data submitted to the DDB. This means there may be possible overcounting in the Table 7 re-creation where the Apprenticeship is not at Level 6.

HESAPPCOURSEAIMPYR

160. We have linked the 2022-23 Student data to 2021-22 Student and Student Alternative data using UKPRN, SID/HUSID and NUMHUS. This field shows the value of COURSEAIM or HESCOURSEAIM_P1 as found in 2021-22 using this linking method.

HESAPPRENTICE

161. This field identifies if the student is on a Higher/Degree Apprenticeship in this SCS.

Value	Description	Definition
1	Student is on a Higher/Degree Apprenticeship in this SCS	At least one value of COURSEINITIDX = 004 or at least one value of STUINITIDX = 004
0	Otherwise	Otherwise

HESAPPPOP

162. This field identifies students that will be included in Table 7. The population is defined in the HESES22 guidance (Annex C, paragraphs 16-17).

Value	Description	Definition
1	Included in Table 7	HESEXCL = 0 and HESMODE ≠ SWOUT and HESTYPE ≠ ISOV and QUALCAT = H0003, H0004, H0005, I0001 and HESLEVEL = UG_45, UG_OTH and HESAPPRENTICE = 1

Value	Description	Definition
0	Otherwise	Otherwise

HESAPPSTARTER

163. This field indicates if the student is part of the Table 7 population and classed as a starter.

Value	Description	Definition
1	Starter in the Table 7 population	HESAPPPOP = 1 and ((HESENGSTARTDATE ≥ 1 August 2022 and HESENGSTARTDATE < 1 August 2023) or (HESENGSTARTDATE < 1 August 2022 and HESAPPCOURSEAIMPYR ≠ H00, H11, H12, H16, H18, H22, H23, H24, I00, I11, I12, I16, BLANK))
0	Otherwise	Otherwise

Recreating Columns 3, 4 and 4a

HESNCOMPLEVEL_Y

164. These fields identify the level at which HESNCOMPRATE_Y (where Y is each price group) is calculated for the year of engagement. For the purpose of this calculation, 'Undergraduate course at Level 4 or 5' and 'Other undergraduate course' are joined to form one undergraduate level. This is so years of engagement included in Tables 6a and 6c can be treated correctly.

Value	Description	Definition
BLANK	There is no activity in the price group for this engagement in the 2022-23 Student data.	HESPRGY = 0
BLANK	There is activity in the price group for this engagement in the 2022-23 Student data, but the year of engagement is included in Tables 6a and 6c of the HESES22 recreation.	HESPRGY > 0 and HESHEALTHPOP = 1
1	More than 9 years of engagement in Columns 1 and 2 of Tables 1, 2 and 3 (excluding those also included in Tables 6a and 6c) in HESES22 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 engagement in Columns 1 and 2 of Tables 1, 2 and 3 (excluding those also included in Tables 6a and 6c) in HESES22 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 engagement in Columns 1 and 2 of Tables 1, 2 and 3 (excluding those also included in Tables 6a and 6c) in HESES22 for this provider with the same mode and level, and not above.	HESPRGY > 0 and HESHEALTHPOP = 0

Value	Description	Definition
4	More than 9 years of engagement in Columns 1 and 2 of Tables 1, 2 and 3 (excluding those also included in Tables 6a and 6c) in HESES22 for this provider with the same mode, and not above.	HESPRGY > 0 and HESHEALTHPOP = 0
5	Otherwise	HESPRGY > 0 and HESHEALTHPOP = 0

HESNCOMPRATE_Y

165. These fields show an estimate of the likelihood that the activity in each price group (Y = A, B, C11, C12, C2, D) was not completed. Each estimate is based on a non-completion rate taken from HESES22 at the appropriate level as identified in HESNCOMPLEVEL_Y. This rate is calculated as follows: $(-1 \times \text{Column 3}) \div (\text{Column 1} + \text{Column 2})$. For the purpose of this calculation, 'Undergraduate course at Level 4 or 5' and 'Other undergraduate course' are joined to form one undergraduate level. This is so years of engagement included in Tables 6a and 6c can be treated correctly.

Value	Definition
BLANK	HESNCOMPLEVEL_Y = BLANK
Calculated from years of engagement in Tables 1, 2 and 3 (excluding those also included in Tables 6a and 6c) of HESES22 for this provider with the same mode, level, residential and fundability status, price group and length.	HESNCOMPLEVEL_Y = 1
Calculated from years of engagement in Tables 1, 2 and 3 (excluding those also included in Tables 6a and 6c) of HESES22 for this provider with the same mode, level, residential and fundability status, and price group.	HESNCOMPLEVEL_Y = 2
Calculated from years of engagement in Tables 1, 2 and 3 (excluding those also included in Tables 6a and 6c) of HESES22 for this provider with the same mode and level.	HESNCOMPLEVEL_Y = 3
Calculated from years of engagement in Tables 1, 2 and 3 (excluding those also included in Tables 6a and 6c) of HESES22 for this provider with the same mode.	HESNCOMPLEVEL_Y = 4
Calculated from years of engagement in Tables 1, 2 and 3 (excluding those also included in Tables 6a and 6c) of HESES22 for this provider.	HESNCOMPLEVEL_Y = 5

HESNCOMPLEVEL_PROFZ

166. These fields identify the level at which HESNCOMPRATE_PROFZ (Z = 1, 2) is calculated for the year of engagement.

Value	Description	Definition
BLANK	The year of engagement is not included in Tables 6a and 6c of the HESES22 recreation.	HESHEALTHPOP = 0

Value	Description	Definition
BLANK	The year of engagement is included in Tables 6a and 6c of the HESES22 recreation, but there is no activity in the profession for this engagement in the 2022-23 Student data.	HESHEALTHPOP = 1 and HESHEALTHPROPZ = 0
1	More than 9 years of engagement in Columns 1 and 2 of Tables 6a and 6c in HESES22 for this provider with the same mode, profession, residential and fundability status, and level, and not above.	HESHEALTHPOP = 1 and HESHEALTHPROPZ ≠ 0
2	More than 9 years of engagement in Columns 1 and 2 of Tables 6a and 6c in HESES22 for this provider with the same mode, profession, and residential and fundability status, and not above.	HESHEALTHPOP = 1 and HESHEALTHPROPZ ≠ 0
3	More than 9 years of engagement in Columns 1 and 2 of Tables 6a and 6c in HESES22 for this provider with the same mode and profession, and not above.	HESHEALTHPOP = 1 and HESHEALTHPROPZ ≠ 0
4	More than 9 years of engagement in Columns 1 and 2 of Tables 6a and 6c in HESES22 for this provider with the same mode, and not above.	HESHEALTHPOP = 1 and HESHEALTHPROPZ ≠ 0
5	Otherwise	HESHEALTHPOP = 1 and HESHEALTHPROPZ ≠ 0

HESNCOMPRATE_PROFZ

167. These fields show an estimate of the likelihood that the activity in each health profession (Z = 1, 2) was not completed. Each estimate is based on a non-completion rate taken from HESES22 at the appropriate level as identified in HESNCOMPLEVEL_PROFZ. This rate is calculated as follows: $(-1 \times \text{Column 3}) \div (\text{Column 1} + \text{Column 2})$.

Value	Definition
BLANK	HESNCOMPLEVEL_PROFZ = BLANK
Calculated from years of engagement in Tables 6a and 6c of HESES22 for this provider with the same mode, profession, residential and fundability status, and level.	HESNCOMPLEVEL_PROFZ = 1
Calculated from years of engagement in Tables 6a and 6c of HESES22 for this provider with the same mode, profession, and residential and fundability status.	HESNCOMPLEVEL_PROFZ = 2
Calculated from years of engagement in Tables 6a and 6c of HESES22 for this provider with the same mode and profession.	HESNCOMPLEVEL_PROFZ = 3
Calculated from years of engagement in Tables 6a and 6c of HESES22 for this provider with the same mode.	HESNCOMPLEVEL_PROFZ = 4
Calculated from years of engagement in Tables 6a and 6c of HESES22 for this provider.	HESNCOMPLEVEL_PROFZ = 5

HESCOL3_PROFZ

168. These fields show the contribution of the activity in each health profession (Z = 1, 2) to Column 3 of Tables 1, 3 and 7, and Tables 6a and 6c of the HESES22 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 engagement is not included in Tables 6a and 6c of the HESES22 recreation.	HESHEALTHPOP = 0
0	The year of engagement is included in Tables 6a and 6c of the HESES22 recreation, but a profession is not recorded, or there is no activity in the profession.	HESHEALTHPOP = 1 and (HESHEALTHPROFZ = BLANK or HESNCOMPRATE_PROFZ = BLANK)
HESHEALTHPROPZ × HESNCOMPRATE_PROFZ	The contribution of the activity in the profession to Column 3 of Tables 1, 3 and 7, and Tables 6a and 6c of the HESES22 recreation.	HESNCOMPRATE_PROFZ ≠ BLANK

HESCOL3_Y

169. These fields show the contribution of the activity in each price group (Y = A, B, C11, C12, C2, D) to Column 3 of Tables 1-3 and 7 of the HESES22 recreation. (For years of engagement included in Tables 6a and 6c, they also show the contribution of the activity in each price group to Column 3 of Tables 6a and 6c of the HESES22 recreation).

Value	Description	Definition
0	There is no activity in the price group for this engagement.	HESPRGY = 0
HESPRGY × HESNCOMPRATE_Y	The contribution of the activity in the price group to Column 3 of Tables 1-3 and 7 of the HESES22 recreation, where the year of engagement is not included in Tables 6a and 6c of the HESES22 recreation.	HESPRGY > 0 and HESHEALTHPOP = 0
HESCOL3_PROF1 + HESCOL3_PROF2	The contribution of the activity in the price group to Column 3 of Tables 1, 3 and 7 of the HESES22 recreation, where the year of engagement is included in Tables 6a and 6c of the HESES22 recreation.	HESPRGY > 0 and HESHEALTHPOP = 1

HESCOL3

170. This field shows the contribution of the year of engagement to Column 3 of Tables 1-3 and 7 of the HESES22 re-creation. It is the sum of HESCOL3_A, HESCOL3_B, HESCOL3_C11, HESCOL3_C12, HESCOL3_C2 and HESCOL3_D.

HESCOL4_PROFZ

171. These fields show the contribution of the activity in each health profession (Z = 1, 2) to Column 4 of Tables 1, 3 and 7, and Tables 6a and 6c of the HESES22 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 engagement is not included in Tables 6a and 6c of the HESES22 recreation.	HESHEALTHPOP = 0
0	The year of engagement is included in Tables 6a and 6c of the HESES22 recreation, but a profession is not recorded, or there is no activity in the profession.	HESHEALTHPOP = 1 and (HESHEALTHPROFZ = BLANK or HESNCOMPRATE_PROFZ = BLANK)
HESHEALTHPROPZ × (1 – HESNCOMPRATE_PROFZ)	The contribution of the activity in the profession to Column 4 of Tables 1, 3 and 7, and Tables 6a and 6c of the HESES22 recreation.	HESNCOMPRATE_PROFZ ≠ BLANK

HESCOL4_Y

172. These fields show the contribution of the activity in each price group (Y = A, B, C11, C12, C2, D) to Column 4 of Tables 1-3 and 7 of the HESES22 recreation. (For years of engagement included in Tables 6a and 6c, they also show the contribution of the activity in each price group to Column 4 of Tables 6a and 6c of the HESES22 recreation.)

Value	Description	Definition
0	There is no activity in the price group for this engagement.	HESPRGY = 0
HESPRGY × (1 – HESNCOMPRATE_Y)	The contribution of the activity in the price group to Column 4 of Tables 1-3 and 7 of the HESES22 recreation, where the year of engagement is not included in Tables 6a and 6c of the HESES22 recreation.	HESPRGY > 0 and HESHEALTHPOP = 0
HESCOL4_PROF1 + HESCOL4_PROF2	The contribution of the activity in the price group to Column 4 of Tables 1 and 3 and 7 of the HESES22 recreation, where the year of engagement is included in Tables 6a and 6c of the HESES22 recreation.	HESPRGY > 0 and HESHEALTHPOP = 1

HESCOL4

173. This field shows the contribution of the year of engagement to Column 4 of Tables 1-3 and 7 of the HESES22 re-creation. It is the sum of HESCOL4_A, HESCOL4_B, HESCOL4_C11, HESCOL4_C12, HESCOL4_C2 and HESCOL4_D.

HESFTEA, HESFTEB, HESFTEC11, HESFTEC12, HESFTEC2, HESFTED

174. The estimated FTE of the activity assigned to each price group is contained in the six 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 and 7 of the HESES22 recreation (HESCOL4_A, HESCOL4_B, HESCOL4_C11, HESCOL4_C12, HESCOL4_C2, HESCOL4_D).

Field	Definition
HESFTEA	HESCOL4_A x HESESFTE
HESFTEB	HESCOL4_B x HESESFTE
HESFTEC11	HESCOL4_C11 x HESESFTE
HESFTEC12	HESCOL4_C12 x HESESFTE
HESFTEC2	HESCOL4_C2 x HESESFTE
HESFTED	HESCOL4_D x HESESFTE

HESCOL4A

175. This field is the recreated HESES22 FTE for the year of engagement. For part-time years of engagement, this is used to populate Column 4a of Tables 3 and 7. It is calculated by multiplying the contribution of the year of engagement to Column 4 of Tables 1-3 and 7 of the HESES22 recreation (HESCOL4) by HESESFTE, and then dividing by 100.

Overrides

HESOVER

176. This field indicates the primary derived field(s) that have been overridden for the student. For example, if HESOVER = 74, by subtracting figures from the following table starting at the bottom, we see that the student has had overrides for HESYAPOP (HESOVER = 64), HESMODE (HESOVER = 8) and HESEXCL (HESOVER = 2) applied.

Value	Description
1	Override to HESESFTE
2	Override to HESEXCL
4	Override to HESLEVEL
8	Override to HESMODE
16	Override to HESREG
32	Override to HESTYPE
64	Override to HESYAPOP
128	Override to HESYATYPE
256	Override to HESLENGTH
512	Override to HESPRGA-HESPRGD for students on foundation degrees for teaching assistants (awarded as an additional student number bid, or otherwise agreed by the OfS)
1024	Other overrides to HESPRGA-HESPRGD
2048	Override to HESYOENUM
4096	Override to HESHEALTHPROP1/2
8192	Override to HESHEALTHPOP
16384	Override to HESHEALTHPROF1/2
32768	Override to HESHEALTHYEAR



© The Office for Students copyright 2023

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/