Table 4.11 Summary statistics on ATAR course examination, 2019

| Course | No. of students who sat exam |  | Mean \% |  | \% Mark range |  | Reliability |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Multiple choice | Total examination |  |
|  | 2019 | 2018 |  |  | 2019 | 2018 | 2019 | 2018 | 2019 | 2018 | 2019 | 2018 |
| Accounting and Finance - Written | 1210 | 1418 | 61.79 | 63.66 |  |  | 94 | 93 | 0.67 | 0.58 | 0.58 | 0.56 |
| Ancient History - Written | 138 | 133 | 60.30 | 59.96 | 86 | 75 |  |  | - | - |
| Animal Production Systems - Written | 45 | 60 | 58.09 | 63.05 | 58 | 64 | 0.61 | 0.55 | 0.77 | 0.73 |
| Applied Information Technology - Written | 566 | 537 | 69.73 | 63.15 | 97 | 94 | 0.39 | 0.48 | 0.82 | 0.80 |
| Arabic - Written | 26 | 28 | 64.76 | 64.36 | 56 | 41 |  |  | 0.97 | 0.69 |
| Auslan - Written | 7 | 13 | 90.44 | 89.00 | 18 | 25 |  |  | - | 0.87 |
| Aviation - Practical | 25 | 17 | 83.45 | 85.34 | 38 | 27 |  |  | 0.51 | 0.68 |
| Aviation - Written | 26 | 17 | 63.08 | 63.22 | 37 | 53 | 0.09 | 0.64 | 0.38 | 0.50 |
| Biology - Written | 1769 | 1835 | 54.63 | 61.36 | 81 | 82 | 0.69 | 0.65 | 0.71 | 0.76 |
| Bosnian - Written | 3 | N/A | 37.59 |  | 50 |  |  |  | - |  |
| Business Management and Enterprise - Written | 873 | 864 | 57.53 | 55.11 | 93 | 90 |  |  | 0.88 | 0.80 |
| Career and Enterprise - Written | 126 | 162 | 59.69 | 60.72 | 86 | 84 |  |  | 0.85 | 0.86 |
| Chemistry - Written | 4547 | 4965 | 57.84 | 58.96 | 99 | 96 | 0.78 | 0.74 | 0.88 | 0.87 |
| Children, Family and the Community - Written | 118 | 100 | 60.37 | 62.79 | 88 | 60 | -0.04 | 0.32 | 0.79 | 0.64 |
| Chin Hakha - Written | 2 | 1 | 82.88 | 80.25 | 3 | 1 |  |  | - | - |
| Chinese: Background Language - Written | 24 | 16 | 66.21 | 64.62 | 70 | 67 |  |  | 0.75 | 0.91 |
| Chinese: First Language - Written | 111 | 111 | 57.62 | 54.04 | 59 | 58 |  |  | 0.62 | 0.59 |
| Chinese: Second Language - Practical | 72 | 63 | 76.22 | 74.48 | 61 | 65 |  |  | 0.94 | 0.93 |
| Chinese: Second Language - Written | 72 | 63 | 64.58 | 64.15 | 76 | 76 |  |  | 0.83 | 0.82 |
| Computer Science - Written | 410 | 469 | 56.04 | 59.92 | 89 | 94 |  |  | 0.90 | 0.89 |
| Croatian - Written | 2 | 1 | 53.75 | 69.50 | 5 | 1 |  |  | - | - |
| Dance - Practical | 162 | 222 | 69.96 | 67.60 | 57 | 63 |  |  | - | - |
| Dance - Written | 164 | 220 | 66.83 | 58.60 | 81 | 77 |  |  | 0.72 | 0.77 |
| Design - Practical | 369 | 369 | 63.67 | 62.93 | 82 | 81 |  |  | 0.93 | 0.93 |
| Design - Written | 367 | 367 | 67.79 | 60.27 | 89 | 77 |  |  | 0.72 | 0.75 |
| Drama - Practical | 572 | 654 | 68.87 | 66.31 | 75 | 73 |  |  | 0.84 | 0.84 |
| Drama - Written | 573 | 669 | 64.88 | 63.49 | 97 | 93 |  |  | 0.70 | 0.76 |
| Dutch - Written | 5 | 2 | 78.25 | 77.06 | 16 | 2 |  |  | - | - |
| Earth and Environmental Science - Written | 185 | 233 | 53.78 | 55.91 | 66 | 70 | 0.46 | 0.44 | 0.66 | 0.75 |
| Economics - Written | 1978 | 2077 | 54.14 | 56.28 | 97 | 99 | 0.78 | 0.75 | 0.88 | 0.88 |
| Engineering Studies - Written * | 198 | 240 | 64.61 | 62.60 | 87 | 75 |  |  | 0.78 | 0.58 |
| English - Written | 10275 | 10925 | 57.04 | 58.15 | 96 | 99 |  |  | 0.67 | 0.70 |
| English as an Additional Language or Dialect - Practical | 1279 | 1480 | 67.06 | 63.02 | 96 | 97 |  |  | 0.68 | 0.68 |
| English as an Additional Language or Dialect - Written | 1282 | 1485 | 60.13 | 64.44 | 94 | 94 |  |  | 0.91 | 0.86 |
| Filipino - Written | 11 | 13 | 84.00 | 83.65 | 32 | 22 |  |  | 0.45 | 0.52 |
| Food Science and Technology - Written | 202 | 245 | 59.05 | 56.49 | 85 | 83 | 0.47 | 0.51 | 0.77 | 0.69 |
| French: Background Language - Practical | 16 | 9 | 72.81 | 78.33 | 36 | 46 |  |  | 0.65 | - |
| French: Background Language - Written | 16 | 9 | 65.36 | 67.70 | 42 | 19 |  |  | 0.73 | - |
| French: Second Language - Practical | 372 | 344 | 77.48 | 75.21 | 57 | 81 |  |  | 0.83 | 0.81 |
| French: Second Language - Written | 374 | 347 | 66.91 | 64.76 | 68 | 78 |  |  | 0.88 | 0.88 |
| Geography - Written | 1563 | 1692 | 56.45 | 56.28 | 92 | 71 | 0.55 | 0.53 | 0.76 | 0.76 |

N/A means that the examination was not conducted in 2018.

- Reliability was not calculated for examinations with a population of fewer than 11 students.
* Printed values refer to the raw exam marks before they were adjusted to take account of the relative difficulty of different contexts in the examination.

Note: data recorded in this table for past years may differ from those previously published, due to ongoing confirmation of data resulting in changes after the date of initial publication.

Table 4.11 Summary statistics on ATAR course examination, 2019

| Course | No. of students who sat exam |  | Mean \% |  | \% Mark range |  | Reliability |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Multiple choice | Total examination |  |
|  | 2019 | 2018 |  |  | 2019 | 2018 | 2019 | 2018 | 2019 | 2018 | 2019 | 2018 |
| German: Background Language - Practical | 14 | 8 | 79.64 | 81.88 |  |  | 51 | 56 |  |  | 0.79 | - |
| German: Background Language - Written | 14 | 8 | 68.52 | 63.28 | 47 | 46 |  |  | 0.72 | - |
| German: Second Language - Practical | 21 | 38 | 66.37 | 69.23 | 70 | 72 |  |  | 0.85 | 0.88 |
| German: Second Language - Written | 22 | 37 | 63.41 | 59.68 | 66 | 61 |  |  | 0.92 | 0.88 |
| Health Studies - Written | 653 | 669 | 52.74 | 58.08 | 88 | 90 | 0.31 | 0.52 | 0.73 | 0.76 |
| Hebrew - Written | 5 | 5 | 58.58 | 67.18 | 25 | 17 |  |  | - | - |
| Hindi - Written | 10 | 7 | 58.40 | 64.90 | 20 | 39 |  |  | - | - |
| Human Biology - Written | 4475 | 4962 | 59.92 | 59.67 | 83 | 94 | 0.75 | 0.71 | 0.84 | 0.83 |
| Hungarian - Written | 1 | 2 | 81.50 | 89.00 | 1 | 6 |  |  | - | - |
| Indonesian: Background Language - Written | 4 | 3 | 61.50 | 35.00 | 21 | 23 |  |  | - | - |
| Indonesian: First Language - Written | 5 | 3 | 45.50 | 49.67 | 22 | 35 |  |  | - | - |
| Indonesian: Second Language - Practical | 59 | 58 | 69.56 | 59.79 | 57 | 75 |  |  | 0.94 | 0.93 |
| Indonesian: Second Language - Written | 59 | 58 | 61.36 | 64.41 | 77 | 80 |  |  | 0.89 | - |
| Integrated Science - Written | 68 | 79 | 52.36 | 62.87 | 54 | 80 | 0.49 | 0.57 | 0.75 | 0.94 |
| Italian: Background Language - Practical | 10 | 5 | 86.50 | 93.00 | 56 | 16 |  |  | - | - |
| Italian: Background Language - Written | 10 | 6 | 77.96 | 75.59 | 39 | 34 |  |  | - | - |
| Italian: Second Language - Practical | 211 | 228 | 66.25 | 67.41 | 88 | 88 |  |  | 0.88 | 0.85 |
| Italian: Second Language - Written | 213 | 228 | 65.74 | 65.03 | 88 | 65 |  |  | 0.88 | 0.87 |
| Japanese: Background Language - Written | 2 | 3 | 51.25 | 54.00 | 12 | 11 |  |  | - | - |
| Japanese: First Language - Written | 5 | 2 | 53.90 | 47.00 | 38 | 9 |  |  | - | - |
| Japanese: Second Language - Practical | 277 | 315 | 65.98 | 68.40 | 86 | 96 |  |  | 0.88 | 0.88 |
| Japanese: Second Language - Written | 279 | 317 | 60.21 | 56.24 | 94 | 87 |  |  | 0.86 | 0.84 |
| Karen - Written | 2 | 1 | 62.44 | 69.88 | 1 | 1 |  |  | - | - |
| Korean: Background Language - Written | 4 | 9 | 55.62 | 66.50 | 44 | 35 |  |  | - | - |
| Literature - Written | 1461 | 1456 | 67.14 | 71.24 | 98 | 98 |  |  | 0.60 | 0.53 |
| Malay: Background Speakers - Written | 2 | 3 | 65.62 | 52.08 | 32 | 23 |  |  |  | - |
| Marine and Maritime Studies - Written | 108 | 125 | 58.21 | 62.88 | 63 | 53 | 0.30 | 0.27 | 0.66 | 0.71 |
| Materials Design and Technology - Practical | 152 | 165 | 69.96 | 70.26 | 90 | 72 |  |  | 0.83 | 0.85 |
| Materials Design and Technology - Written * | 151 | 165 | 65.60 | 66.02 | 84 | 63 |  |  | 0.45 | 0.19 |
| Mathematics Applications - Written | 8047 | 8450 | 56.78 | 52.22 | 95 | 96 |  |  | 0.81 | 0.76 |
| Mathematics Methods - Written | 4050 | 4417 | 56.69 | 65.59 | 98 | 99 |  |  | 0.85 | 0.86 |
| Mathematics Specialist - Written | 1435 | 1546 | 65.34 | 61.73 | 94 | 100 |  |  | 0.78 | 0.82 |
| Media Production and Analysis - Practical | 565 | 680 | 63.44 | 64.40 | 95 | 101 |  |  | 0.86 | 0.80 |
| Media Production and Analysis - Written | 560 | 668 | 61.73 | 63.00 | 93 | 92 |  |  | 0.73 | 0.83 |
| Modern Greek - Written | 3 | N/A | 89.95 |  | 3 |  |  |  | - |  |
| Modern History - Written | 1828 | 2004 | 61.72 | 60.27 | 91 | 90 |  |  | - | - |
| Music - Practical | 308 | 342 | 71.29 | 71.12 | 78 | 79 |  |  | 0.57 | 0.63 |
| Music - Written | 309 | 342 | 56.37 | 55.51 | 82 | 93 |  |  | 0.58 | 0.53 |
| Outdoor Education - Written | 215 | 235 | 61.16 | 52.89 | 70 | 87 | 0.41 | 0.55 | 0.76 | 0.74 |
| Persian - Written | 7 | N/A | 65.50 |  | 35 |  |  |  | - |  |
| Philosophy and Ethics - Written | 205 | 209 | 62.37 | 68.75 | 75 | 78 |  |  | 0.86 | 0.83 |

N/A means that the examination was not conducted in 2018.

- Reliability was not calculated for examinations with a population of fewer than 11 students.
* Printed values refer to the raw exam marks before they were adjusted to take account of the relative difficulty of different contexts in the examination.

Note: data recorded in this table for past years may differ from those previously published, due to ongoing confirmation of data resulting in changes after the date of initial publication.

Table 4.11 Summary statistics on ATAR course examination, 2019

| Course | No. of students who sat exam |  | Mean \% |  | \% Mark range |  | Reliability |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Multiple choice | Total examination |  |
|  | 2019 | 2018 |  |  | 2019 | 2018 | 2019 | 2018 | 2019 | 2018 | 2019 | 2018 |
| Physical Education Studies - Practical | 1858 | 2107 | 60.78 | 61.77 |  |  | 101 | 101 |  |  | - | - |
| Physical Education Studies - Written | 1940 | 2181 | 54.75 | 51.42 | 91 | 77 | 0.46 | 0.53 | 0.73 | 0.77 |
| Physics - Written | 2770 | 3165 | 58.85 | 54.48 | 96 | 97 |  |  | 0.86 | 0.88 |
| Plant Production Systems - Written | 39 | 54 | 65.21 | 60.96 | 57 | 49 | 0.58 | 0.31 | 0.79 | 0.67 |
| Polish - Written | 5 | 4 | 87.43 | 77.12 | 26 | 30 |  |  | - | - |
| Politics and Law - Written | 840 | 892 | 57.86 | 56.27 | 101 | 92 |  |  | 0.95 | 0.92 |
| Portuguese - Written | 1 | 3 | 82.75 | 76.17 | 1 | 31 |  |  | - | - |
| Psychology - Written | 1949 | 2108 | 52.21 | 50.88 | 87 | 84 |  |  | 0.76 | 0.73 |
| Punjabi - Written | 4 | 1 | 74.00 | 52.88 | 19 | 1 |  |  | - | - |
| Religion and Life - Written | 1339 | 1352 | 58.73 | 57.95 | 85 | 89 |  |  | 0.79 | 0.84 |
| Russian - Written | 6 | 4 | 64.19 | 76.10 | 40 | 30 |  |  | - | - |
| Serbian - Written | 8 | 1 | 70.19 | 21.00 | 20 | 1 |  |  | - | - |
| Sinhala - Written | 7 | 9 | 64.09 | 60.10 | 78 | 74 |  |  | - | - |
| Spanish - Written | 9 | 9 | 76.56 | 93.00 | 57 | 19 |  |  | - | - |
| Swedish - Written | 2 | N/A | 79.50 |  | 11 |  |  |  | - |  |
| Tamil - Written | 7 | 7 | 63.45 | 66.27 | 50 | 40 |  |  | - | - |
| Turkish - Written | 3 | 3 | 63.38 | 84.96 | 24 | 13 |  |  | - | - |
| Vietnamese - Written | 10 | 6 | 62.95 | 76.42 | 67 | 72 |  |  | - | - |
| Visual Arts - Practical | 734 | 786 | 67.17 | 65.91 | 65 | 68 |  |  | 0.86 | 0.87 |
| Visual Arts - Written | 725 | 777 | 64.39 | 63.68 | 99 | 94 |  |  | 0.95 | 0.83 |

N/A means that the examination was not conducted in 2018.

- Reliability was not calculated for examinations with a population of fewer than 11 students.
* Printed values refer to the raw exam marks before they were adjusted to take account of the relative difficulty of different contexts in the examination.

Note: data recorded in this table for past years may differ from those previously published, due to ongoing confirmation of data resulting in changes after the date of initial publication.

