

# Results of the Research Assessment Exercise 2020

## Reading Guide

1. The order of RAE 2020 results in which they are given is alphabetical by the full official name of universities.

### Universities

|       |  |
|-------|--|
| CityU | City University of Hong Kong                       |
| HKBU  | Hong Kong Baptist University                       |
| LU    | Lingnan University                                 |
| CUHK  | The Chinese University of Hong Kong                |
| EdUHK | The Education University of Hong Kong              |
| PolyU | The Hong Kong Polytechnic University               |
| HKUST | The Hong Kong University of Science and Technology |
| HKU   | The University of Hong Kong                        |

2. The results are not for comparison purposes and not to be used in a standalone manner. This should be read in conjunction with the Guidance Notes, General Panel Guidelines and Panel-specific Guidelines on Assessment Criteria and Working Methods for the RAE 2020.

3. A Panel produced an overall quality profile by assessing three distinct elements of the assessment – research outputs, impact and environment – to produce a sub-profile for each element. The three sub-profiles of a unit of assessment will be aggregated to form the overall quality profile for the unit of assessment, with the research outputs weighted 70%, impact weighted 15% and environment weighted 15%. The overall quality profile and the sub-profiles shows the proportion of research activity in the submission judged to meet the definitions of starred levels. The sector-wide results and the results at university level by panel in the tables are computed by aggregating the results based on number of submissions.

### Overall quality profile categories :

|              |                           |
|--------------|---------------------------|
| 4 star       | world leading             |
| 3 star       | internationally excellent |
| 2 star       | international standing    |
| 1 star       | limited standing          |
| unclassified |                           |

### Outputs sub-profile categories :

|              |   |
|--------------|---|
| 4 star       | world leading in terms of originality, significance and rigour  |
| 3 star       | internationally excellent in terms of originality, significance and rigour  |
| 2 star       | international standing in terms of originality, significance and rigour   |
| 1 star       | research outputs of limited originality, significance and rigour  |
| unclassified | not reaching the standard of 1 star; or not regarded as research outputs in the RAE 2020; or missing item in the submission |

### Impact sub-profile categories :

|              |   |
|--------------|---|
| 4 star       | outstanding impacts in terms of their reach and significance  |
| 3 star       | considerable impacts in terms of their reach and significance   |
| 2 star       | some impacts in terms of their reach and significance   |
| 1 star       | limited impacts in terms of their reach and significance  |
| unclassified | the impact is of either no reach or no significance; or the impact was not eligible; or the impact was not underpinned by research produced by the submitting unit; or nil submission |

### Environment sub-profile categories :

|              |   |
|--------------|---|
| 4 star       | an environment that is conducive to producing research of world-leading quality, in terms of its vitality and sustainability              |
| 3 star       | an environment that is conducive to producing research of internationally excellent quality, in terms of its vitality and sustainability  |
| 2 star       | an environment that is conducive to producing research of internationally recognised quality, in terms of its vitality and sustainability |
| 1 star       | an environment that is conducive to producing research of limited quality, in terms of its vitality and sustainability                    |
| unclassified | an environment that is not conducive to producing research of 1 star quality; or nil submission   |

4. In accordance with Guidance Notes paragraph 4.4 –

*Universities' assignment of eligible academic staff to a research area and respective units of assessment can be subject to re-assignment by the UGC in case of an anomaly, such as the assignment of certain staff members to a research area and unit of assessment and yet a major part or even all of their research outputs are in the field of other research area(s) or unit(s) of assessment or RAE panel(s). The re-assignment will be based on the recommendations of relevant RAE panel(s) and clarifications made by universities concerned, if any. The re-assignment made will be final in forming the RAE results and no appeal on this will be considered.*

The numbers of eligible staff shown in the tables have incorporated re-assignments by the UGC based on the recommendations of relevant RAE panels after considering the clarifications made by the universities concerned.

5. The number of staff covered by each panel varies significantly. The largest panel covers 650 or more eligible staff, while the smallest only covers about 100. The number of eligible staff in each university and each panel also varies.

6. Universities have made submission to different number of units of assessment in each panel. For example, University A has made submission to only one unit of assessment in the Biology Panel, while University B two.

7. In view of (5) and (6) above, it is neither fair nor appropriate to compare the quality profiles of different universities.

# Results of the Research Assessment Exercise 2020







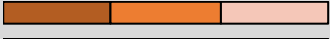


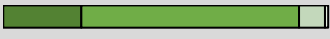
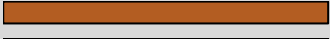













## Panel 6 - Engineering

| Sector-wide / university                           | Quality profile & sub-profiles | Percentage judged to meet the standard of : |           |           |          |          | u/c |     | No. of eligible staff |
|--|--------------------------------|---|-----------|-----------|----------|----------|-----|-----|-----------------------|
|  |                                | 4*  | 3*        | 2*        | 1*       | u/c      |     |     |                       |
| Sector-wide  | <b>Overall</b>                 | <b>34</b>                                   | <b>55</b> | <b>10</b> | <b>1</b> | <b>0</b> |     | 249 |                       |
|  | Outputs                        | 27  | 59        | 13        | 1        | 0        |     |     |                       |
|  | Impact                         | 42  | 47        | 11        | 0        | 0        |     |     |                       |
|  | Environment                    | 57  | 43        | 0         | 0        | 0        |     |     |                       |
| City University of Hong Kong                       | <b>Overall</b>                 | <b>32</b>                                   | <b>61</b> | <b>7</b>  | <b>0</b> | <b>0</b> |     | 54  |                       |
|  | Outputs                        | 29  | 65        | 6         | 0        | 0        |     |     |                       |
|  | Impact                         | 20  | 60        | 20        | 0        | 0        |     |     |                       |
|  | Environment                    | 60  | 40        | 0         | 0        | 0        |     |     |                       |
| The Chinese University of Hong Kong                | <b>Overall</b>                 | <b>42</b>                                   | <b>52</b> | <b>5</b>  | <b>1</b> | <b>0</b> |     | 27  |                       |
|  | Outputs                        | 24  | 67        | 8         | 1        | 0        |     |     |                       |
|  | Impact                         | 100   | 0         | 0         | 0        | 0        |     |     |                       |
|  | Environment                    | 70  | 30        | 0         | 0        | 0        |     |     |                       |
| The Hong Kong Polytechnic University               | <b>Overall</b>                 | <b>35</b>                                   | <b>49</b> | <b>16</b> | <b>0</b> | <b>0</b> |     | 82  |                       |
|  | Outputs                        | 30  | 51        | 19        | 0        | 0        |     |     |                       |
|  | Impact                         | 40  | 40        | 20        | 0        | 0        |     |     |                       |
|  | Environment                    | 55  | 45        | 0         | 0        | 0        |     |     |                       |
| The Hong Kong University of Science and Technology | <b>Overall</b>                 | <b>32</b>                                   | <b>57</b> | <b>10</b> | <b>0</b> | <b>1</b> |     | 50  |                       |
|  | Outputs                        | 24  | 60        | 15        | 0        | 1        |     |     |                       |
|  | Impact                         | 50  | 50        | 0         | 0        | 0        |     |     |                       |
|  | Environment                    | 53  | 47        | 0         | 0        | 0        |     |     |                       |
| The University of Hong Kong                        | <b>Overall</b>                 | <b>33</b>                                   | <b>56</b> | <b>11</b> | <b>0</b> | <b>0</b> |     | 36  |                       |
|  | Outputs                        | 28  | 56        | 16        | 0        | 0        |     |     |                       |
|  | Impact                         | 33  | 67        | 0         | 0        | 0        |     |     |                       |
|  | Environment                    | 53  | 47        | 0         | 0        | 0        |     |     |                       |

End of list

## Results of the Research Assessment Exercise 2020

### UoA 14 - mechanical engineering, production engineering (incl. manufacturing & industrial engineering), textile technology and aerospace engineering

| Sector-wide / university                                  | Quality profile & sub-profiles | Percentage judged to meet the standard of : |           |           |          |          | No. of eligible staff  |     |
|---|--------------------------------|---|-----------|-----------|----------|----------|--|-----|
|   |                                | 4*  | 3*        | 2*        | 1*       | u/c      |  |     |
| <b>Sector-wide</b>  | <b>Overall</b>                 | <b>40</b>                                   | <b>48</b> | <b>12</b> | <b>0</b> | <b>0</b> |    | 193 |
|   | Outputs                        | 29  | 57        | 14        | 0        | 0        |    |     |
|   | Impact                         | 50  | 36        | 14        | 0        | 0        |    |     |
|   | Environment                    | 82  | 18        | 0         | 0        | 0        |    |     |
| <b>City University of Hong Kong</b>                       | <b>Overall</b>                 | <b>38</b>                                   | <b>52</b> | <b>10</b> | <b>0</b> | <b>0</b> |    | 33  |
|   | Outputs                        | 31  | 62        | 7         | 0        | 0        |    |     |
|   | Impact                         | 33  | 34        | 33        | 0        | 0        |    |     |
|   | Environment                    | 75  | 25        | 0         | 0        | 0        |    |     |
| <b>The Chinese University of Hong Kong</b>                | <b>Overall</b>                 | <b>42</b>                                   | <b>52</b> | <b>5</b>  | <b>1</b> | <b>0</b> |    | 27  |
|   | Outputs                        | 24  | 67        | 8         | 1        | 0        |    |     |
|   | Impact                         | 100   | 0         | 0         | 0        | 0        |    |     |
|   | Environment                    | 70  | 30        | 0         | 0        | 0        |   |     |
| <b>The Hong Kong Polytechnic University</b>               | <b>Overall</b>                 | <b>41</b>                                   | <b>42</b> | <b>17</b> | <b>0</b> | <b>0</b> |  | 69  |
|   | Outputs                        | 30  | 51        | 19        | 0        | 0        |  |     |
|   | Impact                         | 50  | 25        | 25        | 0        | 0        |  |     |
|   | Environment                    | 80  | 20        | 0         | 0        | 0        |  |     |
| <b>The Hong Kong University of Science and Technology</b> | <b>Overall</b>                 | <b>35</b>                                   | <b>55</b> | <b>10</b> | <b>0</b> | <b>0</b> |  | 37  |
|   | Outputs                        | 25  | 61        | 14        | 0        | 0        |  |     |
|   | Impact                         | 33  | 67        | 0         | 0        | 0        |  |     |
|   | Environment                    | 85  | 15        | 0         | 0        | 0        |  |     |
| <b>The University of Hong Kong</b>                        | <b>Overall</b>                 | <b>44</b>                                   | <b>48</b> | <b>8</b>  | <b>0</b> | <b>0</b> |  | 27  |
|   | Outputs                        | 31  | 57        | 12        | 0        | 0        |  |     |
|   | Impact                         | 50  | 50        | 0         | 0        | 0        |  |     |
|   | Environment                    | 100   | 0         | 0         | 0        | 0        |  |     |

End of list

## Results of the Research Assessment Exercise 2020

### UoA 15 - chemical engineering, biomedical engineering, other technologies (incl. environmental engineering & nautical studies) and marine engineering

| Sector-wide / university                                  | Quality profile & sub-profiles | Percentage judged to meet the standard of : |           |           |          |          | u/c |    | No. of eligible staff |
|---|--------------------------------|---|-----------|-----------|----------|----------|-----|----|-----------------------|
|   |                                | 4*  | 3*        | 2*        | 1*       | u/c      |     |    |                       |
| <b>Sector-wide</b>  | <b>Overall</b>                 | <b>23</b>                                   | <b>67</b> | <b>9</b>  | <b>1</b> | <b>0</b> |     | 56 |                       |
|   | Outputs                        | 23  | 62        | 13        | 2        | 0        |     |    |                       |
|   | Impact                         | 20  | 80        | 0         | 0        | 0        |     |    |                       |
|   | Environment                    | 25  | 75        | 0         | 0        | 0        |     |    |                       |
| <b>City University of Hong Kong</b>                       | <b>Overall</b>                 | <b>25</b>                                   | <b>72</b> | <b>2</b>  | <b>1</b> | <b>0</b> |     | 21 |                       |
|   | Outputs                        | 26  | 70        | 3         | 1        | 0        |     |    |                       |
|   | Impact                         | 0   | 100       | 0         | 0        | 0        |     |    |                       |
|   | Environment                    | 45  | 55        | 0         | 0        | 0        |     |    |                       |
| <b>The Hong Kong Polytechnic University</b>               | <b>Overall</b>                 | <b>22</b>                                   | <b>63</b> | <b>14</b> | <b>1</b> | <b>0</b> |     | 13 |                       |
|   | Outputs                        | 25  | 54        | 19        | 2        | 0        |     |    |                       |
|   | Impact                         | 0   | 100       | 0         | 0        | 0        |     |    |                       |
|   | Environment                    | 30  | 70        | 0         | 0        | 0        |     |    |                       |
| <b>The Hong Kong University of Science and Technology</b> | <b>Overall</b>                 | <b>31</b>                                   | <b>54</b> | <b>12</b> | <b>2</b> | <b>1</b> |     | 13 |                       |
|   | Outputs                        | 19  | 60        | 17        | 2        | 2        |     |    |                       |
|   | Impact                         | 100   | 0         | 0         | 0        | 0        |     |    |                       |
|   | Environment                    | 20  | 80        | 0         | 0        | 0        |     |    |                       |
| <b>The University of Hong Kong</b>                        | <b>Overall</b>                 | <b>14</b>                                   | <b>69</b> | <b>17</b> | <b>0</b> | <b>0</b> |     | 9  |                       |
|   | Outputs                        | 19  | 56        | 25        | 0        | 0        |     |    |                       |
|   | Impact                         | 0   | 100       | 0         | 0        | 0        |     |    |                       |
|   | Environment                    | 5   | 95        | 0         | 0        | 0        |     |    |                       |

End of list