**The University of Hong Kong**

**Department of Mechanical Engineering**

Application for FOCUS

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| **Part I: Personal Particulars** |
| University No: |  | Name: |  |
|  |  | (Surname) | (First Name) |
|  |
| HK Contact Tel. No.:  |  | Email Address: |  |
|  |  |  |
| Programme: |  | Year Admitted: |  | Year of Study: |  |

A student may choose to claim any of the following five Focuses, provided that he/she must have taken at least FOUR courses under the corresponding Focus.

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| **Please tick** | **Robotics, Drones and Control (6 courses available)** |
|  | **Course Code** | **Course Name**  |
| MECH3416 | Fundamentals of aeronautical engineering |
| MECH3433 | Robotics, drones and autonomous ground vehicles |
| MECH4404 | Automatic control |
| MECH4427 | Innovative design and unmanned aerials systems |
| MECH4428 | Sound and vibration |
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| **Please tick** | **Aerospace Engineering (6 courses available)** |
|  | **Course Code** | **Course Name**  |
| MECH3416 | Fundamentals of aeronautical engineering |
| MECH3433 | Robotics, drones and autonomous ground vehicles |
| MECH4414 | Materials for engineering applications |
| MECH4415 | Applied stress and strength analysis |
| MECH4421 | Viscous flow |
| MECH4427 | Innovative design and unmanned aerials systems |
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| **Please tick** | **Intelligent Built Environment (6 courses available)** |
|  | **Course Code** | **Course Name**  |
| ELEC4149 | Basic lighting engineering |
| MECH3429 | Air conditioning and refrigeration |
| MECH3430 | Fire protection in buildings |
| MECH3431 | Utility services in buildings |
| MECH4409 | Energy conversion systems |
| MECH4423 | Building energy management and control systems |
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| **Please tick** | **Materials Science and Engineering (6 courses available)** |
|  | **Course Code** | **Course Name**  |
| MECH4411 | Heat transfer |
| MECH4414 | Materials for engineering applications |
| MECH4415 | Applied stress and strength analysis |
| MECH4421 | Viscous flow |
| BMED3600 | Biomaterials science and engineering |
| ELEC3347 | Electronic materials and quantum physics |
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| **Please tick** | **Energy and Environmental Engineering (6 courses available)** |
|  | **Course Code** | **Course Name**  |
| MECH3420 | Air pollution control |
| MECH4409 | Energy conversion systems |
| MECH4411 | Heat transfer |
| MECH4423 | Building energy management and control systems |
| CIME2101 | Water and air quality: concepts and measurement |
| CIVL3115 | Solids and hazardous waste management |

Remarks: In principle, double counting is not permissible. A particular elective course shall be counted towards one Focus Area only. A student can claim two or more Focus Areas provided that no course is being counted twice.

Signature: Date:

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| Supported / Not supported\*. |
| Date: |  | Department Head/Programme Director’s\* Signature: |  |
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| **Faculty Office Use Only** |
| Approved / Disapproved\*. |
| Date: |  | Faculty Board Chairman’s Signature: |  |
| \*Please delete as appropriateJanuary 2023  |  |  |  |