**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 | |
|  |  | |
| **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 | |
|  |  | |
| **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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| **FOR OFFICE USE ONLY** | | | | |
| **Department office Use Only** | | | | |
| 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 appropriate  January 2023 | |  |  |  |