BEng (Civil) and BSocSci (Economics) CGPA Computation (wef AY2025/2026 Intake onwards)

| List of courses                        | that contribute t                          | owards BEng   | (Civil Engineering)   |   | AU Load   |
|--|--|---|---|---|---|
|  | Core                                       | PH1011  | Physics**   | 3   |   |
|  |  | MH1810  | Mathematics 1   | 3   |   |
|  |  | MH1811  | Mathematics 2   | 3   |   |
|  |  | FE1073  | Introduction to Engineering & Practices   | 1   |   |
|  |  | CV1011  | Mechanics of Materials  | 4   |   |
|  |  | CV1012  | Fluid Mechanics   | 3   |   |
|  |  | CV1013  | Civil Engineering Materials   | 3   |   |
|  |  | CV1014  | Introduction to Computational Thinking  | 3   |   |
|  |  | CV1711  | Civil Engineering Drawing   | 1   | 80 AUs  |
|  |  | CV2011  | Structural Analysis I   | 3   |   |
|  |  | CV2012  | Structural Analysis II  | 3   |   |
|  |  | CV2013  | Engineering Geology & Soil Mechanics  | 3   |   |
| Discipline<br>Requirement              |  | CV2014  | Geotechnical Engineering  | 3   |   |
|  |  | CV2019  | Matrix Algebra & Computational Methods  | 3 3   |   |
|  |  | CV2020<br>CV2711  | Water Resources Engineering Civil Engineering Laboratory A  | 1   |   |
|  |  | CV2711<br>CV2712  | Civil Engineering Laboratory B  | 1   |   |
|  |  | CV2/12<br>CV3011  | Reinforced Concrete Design  | 3   |   |
|  |  | CV3011<br>CV3012  | Steel Design  | 3   |   |
|  |  | CV3012  | Foundation Engineering  | 3   |   |
|  |  | CV3013  | Transportation Engineering  | 3   |   |
|  |  | CV3017  | Environmental Engineering   | 2   |   |
|  |  | CV3016  | Construction Technology & Processes   | 3   |   |
|  |  | CV4012  | Project Planning & Management   | 2   |   |
|  |  | CV4711  | Seminars & Site Visits  | 1   |   |
|  |  | CV4911  | Final Year Project  | 8   |   |
|  |  | CV4912  | Integrated Design   | 3   |   |
|  |  | EG1001  | Engineers in Society  | 2   |   |
|  |  | MH1820  | Introduction to Probability and Statistical Methods   | 3   |   |
|  | BDE  | HE1001  | Microeconomic I   | 3   | 18 AUs  |
|  |  |   |   |   |   |
|  |  | HE1002  | Macroeconomic I   | 3   | 15 AUs from   |
|  |  |   | Macroeconomic I Microeconomic II  |   |   |
|  |  | HE1002  |   | 3   | 15 AUs from compulsory Year 1 & 2 Economics courses.  |
|  |  | HE1002<br>HE2001  | Microeconomic II  | 3<br>3<br>3<br>3  | 15 AUs from<br>compulsory Year 1 & 2<br>Economics courses.<br>Remaining 3 AUs from  |
|  |  | HE1002<br>HE2001<br>HE2002  | Microeconomic II<br>Macroeconomic II  | 3<br>3<br>3   | 15 AUs from<br>compulsory Year 1 & 2<br>Economics courses.<br>Remaining 3 AUs from<br>Year 3 and 4  |
|  |  | HE1002<br>HE2001<br>HE2002<br>HE2003  | Microeconomic II Macroeconomic II Econometrics I  | 3<br>3<br>3<br>3  | 15 AUs from compulsory Year 1 & 2 Economics courses. Remaining 3 AUs from Year 3 and 4 Economics PE that  |
|  |  | HE1002<br>HE2001<br>HE2002<br>HE2003  | Microeconomic II Macroeconomic II Econometrics I  | 3<br>3<br>3<br>3  | 15 AUs from compulsory Year 1 & 2 Economics courses. Remaining 3 AUs from Year 3 and 4 Economics PE that yield the highest  |
|  |  | HE1002<br>HE2001<br>HE2002<br>HE2003  | Microeconomic II Macroeconomic II Econometrics I  | 3<br>3<br>3<br>3  | 15 AUs from compulsory Year 1 & 2 Economics courses. Remaining 3 AUs from Year 3 and 4 Economics PE that yield the highest CGPA.  |
|  |  | HE1002<br>HE2001<br>HE2002<br>HE2003  | Microeconomic II Macroeconomic II Econometrics I  | 3<br>3<br>3<br>3  | 15 AUs from compulsory Year 1 & 2 Economics courses. Remaining 3 AUs from Year 3 and 4 Economics PE that yield the highest  |
|  | Major PE                                   | HE1002<br>HE2001<br>HE2002<br>HE2003  | Microeconomic II Macroeconomic II Econometrics I Economics PE Course 1  Core Elective 1   | 3<br>3<br>3<br>3  | 15 AUs from compulsory Year 1 & 2 Economics courses. Remaining 3 AUs from Year 3 and 4 Economics PE that yield the highest CGPA. + 2 AU (PI Option)                           |
|  |  | HE1002<br>HE2001<br>HE2002<br>HE2003<br>HExxxx  | Microeconomic II Macroeconomic II Econometrics I Economics PE Course 1  Core Elective 1 Inquiry and Communication in the  | 3<br>3<br>3<br>3<br>3   | 15 AUs from compulsory Year 1 & 2 Economics courses. Remaining 3 AUs from Year 3 and 4 Economics PE that yield the highest CGPA. + 2 AU (PI Option) + 5 AU (PA Option)        |
|  |  | HE1002<br>HE2001<br>HE2002<br>HE2003<br>HEXXXX  | Microeconomic II Macroeconomic II Econometrics I Economics PE Course 1  Core Elective 1   | 3<br>3<br>3<br>3<br>3   | 15 AUs from compulsory Year 1 & 2 Economics courses. Remaining 3 AUs from Year 3 and 4 Economics PE that yield the highest CGPA. + 2 AU (PI Option) + 5 AU (PA Option)        |
|  | Major PE Common                            | HE1002<br>HE2001<br>HE2002<br>HE2003<br>HEXXXX  | Microeconomic II Macroeconomic II Econometrics I Economics PE Course 1  Core Elective 1  Inquiry and Communication in the Interdisciplinary World Ethics & Civics in a Multi-Cultural World Career Design & Workplace Readiness in  | 3<br>3<br>3<br>3<br>3<br>2  | 15 AUs from compulsory Year 1 & 2 Economics courses. Remaining 3 AUs from Year 3 and 4 Economics PE that yield the highest CGPA. + 2 AU (PI Option) + 5 AU (PA Option) 3 AUs  |
|  | Major PE                                   | HE1002<br>HE2001<br>HE2002<br>HE2003<br>HEXXXX<br>CV4XXX<br>CC0001<br>CC0003  | Microeconomic II Macroeconomic II Econometrics I Economics PE Course 1  Core Elective 1  Inquiry and Communication in the Interdisciplinary World Ethics & Civics in a Multi-Cultural World Career Design & Workplace Readiness in the V.U.C.A World  | 3<br>3<br>3<br>3<br>3<br>3  | 15 AUs from compulsory Year 1 & 2 Economics courses. Remaining 3 AUs from Year 3 and 4 Economics PE that yield the highest CGPA. + 2 AU (PI Option) + 5 AU (PA Option)        |
| Interdisciplin                         | Major PE Common                            | HE1002<br>HE2001<br>HE2002<br>HE2003<br>HEXXXX<br>CV4XXX<br>CC0001<br>CC0003<br>ML0004                                    | Microeconomic II Macroeconomic II Econometrics I Economics PE Course 1  Core Elective 1  Inquiry and Communication in the Interdisciplinary World Ethics & Civics in a Multi-Cultural World Career Design & Workplace Readiness in the V.U.C.A World Health & Wellbeing Sustainability: Society, Economy &  | 3<br>3<br>3<br>3<br>3<br>3<br>2<br>2<br>2   | 15 AUs from compulsory Year 1 & 2 Economics courses. Remaining 3 AUs from Year 3 and 4 Economics PE that yield the highest CGPA. + 2 AU (PI Option) + 5 AU (PA Option) 3 AUs  |
| Interdisciplin<br>ary<br>Collaborative | Major PE Common                            | HE1002<br>HE2001<br>HE2002<br>HE2003<br>HEXXXX<br>CV4XXX<br>CC0001<br>CC0003<br>ML0004<br>CC0015                          | Microeconomic II Macroeconomic II Econometrics I Economics PE Course 1  Core Elective 1  Inquiry and Communication in the Interdisciplinary World Ethics & Civics in a Multi-Cultural World Career Design & Workplace Readiness in the V.U.C.A World Health & Wellbeing Sustainability: Society, Economy & Environment  | 3<br>3<br>3<br>3<br>3<br>3<br>2<br>2<br>2<br>2  | 15 AUs from compulsory Year 1 & 2 Economics courses. Remaining 3 AUs from Year 3 and 4 Economics PE that yield the highest CGPA. + 2 AU (PI Option) + 5 AU (PA Option) 3 AUs  |
| ary                                    | Major PE Common                            | HE1002<br>HE2001<br>HE2002<br>HE2003<br>HEXXXX<br>CV4XXX<br>CC0001<br>CC0003<br>ML0004<br>CC0015<br>CC0006                | Microeconomic II Macroeconomic II Econometrics I Economics PE Course 1  Core Elective 1  Inquiry and Communication in the Interdisciplinary World Ethics & Civics in a Multi-Cultural World Career Design & Workplace Readiness in the V.U.C.A World Health & Wellbeing Sustainability: Society, Economy & Environment Science & Technology for Humanity Introduction to Data Science and Artificial  | 3<br>3<br>3<br>3<br>3<br>3<br>2<br>2<br>2<br>2<br>2<br>3                                  | 15 AUs from compulsory Year 1 & 2 Economics courses. Remaining 3 AUs from Year 3 and 4 Economics PE that yield the highest CGPA. + 2 AU (PI Option) + 5 AU (PA Option) 3 AUs  |
| ary<br>Collaborative                   | Major PE  Common Core                      | HE1002 HE2001 HE2002 HE2003 HE2003 HEXXXX  CV4XXX  CC0001 CC0003 ML0004 CC0015 CC0006 CC0007 CV0003                       | Microeconomic II Macroeconomic II Econometrics I Economics PE Course 1  Core Elective 1  Inquiry and Communication in the Interdisciplinary World Ethics & Civics in a Multi-Cultural World Career Design & Workplace Readiness in the V.U.C.A World Health & Wellbeing Sustainability: Society, Economy & Environment Science & Technology for Humanity Introduction to Data Science and Artificial Intelligence   | 3<br>3<br>3<br>3<br>3<br>3<br>2<br>2<br>2<br>2<br>2<br>3<br>3<br>3                        | 15 AUs from compulsory Year 1 & 2 Economics courses. Remaining 3 AUs from Year 3 and 4 Economics PE that yield the highest CGPA. + 2 AU (PI Option) + 5 AU (PA Option)  3 AUs |
| ary<br>Collaborative                   | Major PE  Common Core                      | HE1002 HE2001 HE2002 HE2003 HE2003 HEXXXX  CV4XXX  CC0001 CC0003 ML0004 CC0015 CC0006 CC0007 CV0003 HW0288                | Microeconomic II Macroeconomic II Econometrics I Economics PE Course 1  Core Elective 1  Inquiry and Communication in the Interdisciplinary World Ethics & Civics in a Multi-Cultural World Career Design & Workplace Readiness in the V.U.C.A World Health & Wellbeing Sustainability: Society, Economy & Environment Science & Technology for Humanity Introduction to Data Science and Artificial Intelligence Engineering Communication   | 3<br>3<br>3<br>3<br>3<br>3<br>2<br>2<br>2<br>2<br>2<br>3<br>3<br>3<br>3                   | 15 AUs from compulsory Year 1 & 2 Economics courses. Remaining 3 AUs from Year 3 and 4 Economics PE that yield the highest CGPA. + 2 AU (PI Option) + 5 AU (PA Option)  3 AUs |
| ary<br>Collaborative                   | Major PE  Common Core                      | HE1002 HE2001 HE2002 HE2003 HE2003 HEXXXX  CV4XXX  CC0001 CC0003 ML0004 CC0015 CC0006 CC0007 CV0003                       | Microeconomic II Macroeconomic II Econometrics I Economics PE Course 1  Core Elective 1  Inquiry and Communication in the Interdisciplinary World Ethics & Civics in a Multi-Cultural World Career Design & Workplace Readiness in the V.U.C.A World Health & Wellbeing Sustainability: Society, Economy & Environment Science & Technology for Humanity Introduction to Data Science and Artificial Intelligence   | 3<br>3<br>3<br>3<br>3<br>3<br>2<br>2<br>2<br>2<br>2<br>3<br>3<br>3                        | 15 AUs from compulsory Year 1 & 2 Economics courses. Remaining 3 AUs from Year 3 and 4 Economics PE that yield the highest CGPA. + 2 AU (PI Option) + 5 AU (PA Option)  3 AUs |
| ary<br>Collaborative                   | Major PE  Common Core  Professional Series | HE1002 HE2001 HE2002 HE2003 HE2003 HEXXXX  CV4XXX  CC0001 CC0003 ML0004 CC0015 CC0006 CC0007 CV0003 HW0288 CV3920/        | Microeconomic II Macroeconomic II Econometrics I Economics PE Course 1  Core Elective 1  Inquiry and Communication in the Interdisciplinary World Ethics & Civics in a Multi-Cultural World Career Design & Workplace Readiness in the V.U.C.A World Health & Wellbeing Sustainability: Society, Economy & Environment Science & Technology for Humanity Introduction to Data Science and Artificial Intelligence Engineering Communication Professional Internship / Professional  | 3<br>3<br>3<br>3<br>3<br>2<br>2<br>2<br>2<br>3<br>3<br>3<br>2<br>10/                      | 15 AUs from compulsory Year 1 & 2 Economics courses. Remaining 3 AUs from Year 3 and 4 Economics PE that yield the highest CGPA. + 2 AU (PI Option) + 5 AU (PA Option)  3 AUs |
| ary<br>Collaborative                   | Major PE  Common Core                      | HE1002 HE2001 HE2001 HE2002 HE2003 HEXXXX  CV4XXX  CC0001 CC0003 ML0004 CC0015 CC0006 CC0007 CV0003 HW0288 CV3920/ CV3910 | Microeconomic II Macroeconomic II Econometrics I Economics PE Course 1  Core Elective 1  Inquiry and Communication in the Interdisciplinary World Ethics & Civics in a Multi-Cultural World Career Design & Workplace Readiness in the V.U.C.A World Health & Wellbeing Sustainability: Society, Economy & Environment Science & Technology for Humanity Introduction to Data Science and Artificial Intelligence Engineering Communication Professional Internship / Professional Attachment Profession Preparation Service Learning | 3<br>3<br>3<br>3<br>3<br>3<br>2<br>2<br>2<br>2<br>2<br>3<br>3<br>3<br>3<br>2<br>10/5<br>5 | 15 AUs from compulsory Year 1 & 2 Economics courses. Remaining 3 AUs from Year 3 and 4 Economics PE that yield the highest CGPA. + 2 AU (PI Option) + 5 AU (PA Option)  3 AUs |

<sup>\*\*</sup> Students without 'A' level Physics will take PH1012 (FE1012) Physics A (4AU)