

MEEC CGPA Computation (MAINSTREAM)

BEng (Mechanical Engineering) and BSocSci (Economics)
(wef AY2025/2026 Intake onwards)

| List of Courses that Contributes to BEng (Mechanical Engineering) | | | | AU Load | | | |
|---|--------------------------|-------------------|--|-------------------|------------------------------|--------------------|--|
| Discipline Requirement | Core | MH1810 | Mathematics 1 | 3 | 79/80*AU | | |
| | | PH1011 | Physics* | 3 | | | |
| | | FE1073 | An Introduction to Engineering & Practices | 1 | | | |
| | | EG1001 | Engineers in Society | 2 | | | |
| | | MA2003 | Introduction to Thermo-Fluids | 3 | | | |
| | | MH1811 | Mathematics II | 3 | | | |
| | | MA1001 | Dynamics | 3 | | | |
| | | MA1008 | Introduction to Computational Thinking | 3 | | | |
| | | MA2001 | Mechanics of Materials | 3 | | | |
| | | MA2002 | Theory of Mechanism | 3 | | | |
| | | MA2004 | Manufacturing Processes | 3 | | | |
| | | MA2006 | Engineering Mathematics | 3 | | | |
| | | MA2009 | Introduction to Electrical & Electronic Devices | 3 | | | |
| | | MA2071 | Laboratory Experiments | 1 | | | |
| | | MA2005 | Engineering Graphics | 3 | | | |
| | | MA2007 | Thermodynamics | 3 | | | |
| | | MA2079 | Engineering Innovation and Design | 2 | | | |
| | | MA3001 | Machine Element Design | 3 | | | |
| | | MA3006 | Fluid Mechanics | 3 | | | |
| | | MA3002 | Solid Mechanics and Vibration | 3 | | | |
| | | MA3003 | Heat Transfer | 3 | | | |
| | | MA3004 | Mathematical Methods in Engineering | 3 | | | |
| | | MA3005 | Control Theory | 3 | | | |
| | | MA3071 | Engineering Experiments (ME) | 1 | | | |
| | | MA4079 | Final Year Project | 8 | | | |
| | | MA4002 | Fluid Dynamics | 3 | | | |
| | | MA4001 | Engineering Design | 4 | | | |
| | | BDE | HE1001 | Microeconomics I | | 3 | 18AU 15AU from compulsory Year 1 and 2 Economics Core courses. Remaining 3AU from Year 3 and 4 Economics PE that yield the highest CGPA. + 5AU (PA only) |
| | | | HE1002 | Macroeconomics I | | 3 | |
| | | | HE2001 | Microeconomics II | | 3 | |
| | | | HE2002 | Macroeconomics II | | 3 | |
| | | | HE2003 | Econometrics I | | 3 | |
| | | | HEXXXX | Economics PE | | 3 | |
| Major PE | MA48XX | Major-PE 1 | 3 | 6AU | | | |
| | MA48XX | Major-PE 2 | 3 | | | | |
| Interdisciplinary Collaborative Core | Common Core | CC0001 | Inquiry and Communication in an Interdisciplinary World | 2 | 14AU | | |
| | | CC0002 | Navigating the Digital World | 2 | | | |
| | | CC0003 | Ethics & Civics in a Multi-Cultural World | 2 | | | |
| | | CC0015 | Health & Wellbeing | 2 | | | |
| | | CC0006 | Sustainability: Society, Economy & Environment | 3 | | | |
| | | CC0007 | Science & Technology for Humanity | 3 | | | |
| | | ML0004 | Career Design & Workplace Readiness in the V.U.C.A World | 2 | | | |
| | Professional Series | HW0288 | Engineering Communication | 2 | 16AU or 11AU (PA only) | | |
| | | MA0218 | Introduction to Data Science and Artificial Intelligence | 3 | | | |
| | | MA3920/ MA3910 | Professional Internship/ Professional Attachment | 10/ 5 | | | |
| | | MLxxxx | Profession Preparation | 1 | | | |
| | Care, Serve, Learn (CSL) | | Service Learning | 3 | 3 | | |
| | TOTAL | | | | | 136/137* AU | |

*Students without 'A' Level/Senior High School Physics will take 'PH1012 Physics A' (4AU).

MEEC CGPA Computation (MAINSTREAM)

BEng (Mechanical Engineering) and BSocSci (Economics)
(wef AY2025/2026 Intake onwards)

| List of courses that contribute towards BSocSci (Econs) | | | | AU Load | |
|---|-------------------------------------|-------------------------------|--|----------|---|
| Discipline Requirement | Core | HE1001 | Microeconomics I | 3 | 32AU |
| | | HE1002 | Macroeconomics I | 3 | |
| | | HE2001 | Microeconomics II | 3 | |
| | | HE2002 | Macroeconomics II | 3 | |
| | | HE2003 | Econometrics I | 3 | |
| | | HE3001 | Microeconomics III | 3 | |
| | | HE3002 | Macroeconomics III | 3 | |
| | | HE3003 | Econometrics II | 3 | |
| | | MA4079 | Final Year Project | 8 | |
| | MPE | MH1820 | Introduction to Probability and Statistical Methods | 3 | 33AU |
| | | HE3XXX | Econs PE1 | 3 | |
| | | HE3XXX | Econs PE2 | 3 | |
| | | HE3XXX | Econs PE3 | 3 | |
| | | HE3XXX | Econs PE4 | 3 | |
| | | HE3XXX | Econs PE5 | 3 | |
| | | HE3XXX | Econs PE6 | 3 | |
| | | HE4XXX | Econs PE7 | 4 | |
| | | HE4XXX | Econs PE8 | 4 | |
| | BDE | MH1810 | Mathematics 1 | 3 | 9AU from Year 1 Engineering graded Core courses that yield the highest CGPA. |
| | | PH1011 | Physics* | 3 | |
| | | FE1073 | An Introduction to Engineering & Practices | 1 | |
| | | EG1001 | Engineers in Society | 2 | |
| | | MH1811 | Mathematics II | 3 | |
| | | MA1001 | Dynamics | 3 | |
| | BDE | MA1008 | Introduction to Computational Thinking | 3 | 18AU from Year 2 and 3 Engineering graded courses that yield the highest CGPA + 5AU (PA only) |
| | | MA2003 | Introduction to Thermo-Fluids | 3 | |
| | | MA2001 | Mechanics of Materials | 3 | |
| | | MA2002 | Theory of Mechanism | 3 | |
| | | MA2004 | Manufacturing Processes | 3 | |
| | | MA2006 | Engineering Mathematics | 3 | |
| | | MA2009 | Introduction to Electrical & Electronic Devices | 3 | |
| | | MA2071 | Laboratory Experiments | 1 | |
| | | MA2005 | Engineering Graphics | 3 | |
| | | MA2007 | Thermodynamics | 3 | |
| | | MA2079 | Engineering Innovation and Design | 2 | |
| | | MA3001 | Machine Element Design | 3 | |
| MA3006 | | Fluid Mechanics | 3 | | |
| MA3002 | | Solid Mechanics and Vibration | 3 | | |
| MA3003 | | Heat Transfer | 3 | | |
| MA3004 | Mathematical Methods in Engineering | 3 | | | |
| MA3005 | Control Theory | 3 | | | |
| MA3071 | Engineering Experiments (ME) | 1 | | | |
| Interdisciplinary Collaborative Core | Common Core | CC0001 | Inquiry and Communication in an Interdisciplinary World | 2 | 14AU |
| | | CC0002 | Navigating the Digital World | 2 | |
| | | CC0003 | Ethics & Civics in a Multi-Cultural World | 2 | |
| | | CC0015 | Health & Wellbeing | 2 | |
| | | CC0006 | Sustainability: Society, Economy & Environment | 3 | |
| | | CC0007 | Science & Technology for Humanity | 3 | |
| | | ML0004 | Career Design & Workplace Readiness in the V.U.C.A World | 2 | |
| | Professional Series | HW0288 | Engineering Communication | 2 | 16AU or 11AU (PA only) |
| | | MA0218 | Introduction to Data Science and Artificial Intelligence | 3 | |
| | | MA3920/ MA3910 | Professional Internship/ Professional Attachment | 10/ 5 | |
| MLxxxx | | Profession Preparation | 1 | | |
| | Care, Serve, Learn (CSL) | | Service Learning | 3 | 3 |
| TOTAL | | | | | 125AU |

*Students without 'A' Level/Senior High School Physics will take 'PH1012 Physics A' (4AU).

MEEC CGPA Computation (Intelligent Design and Manufacturing Stream)

BEng (Mechanical Engineering) and BSocSci (Economics)

(wef AY2026/2027 Intake onwards)

| List of Courses that Contributes to BEng (Mechanical Engineering) | | | | AU Load | | | |
|---|---------------------|------------------------|--|--------------------|----------|------------------------------|---|
| Discipline Requirement | Core | MH1810 | Mathematics 1 | 3 | 79/80*AU | | |
| | | PH1011 | Physics* | 3 | | | |
| | | FE1073 | An Introduction to Engineering & Practices | 1 | | | |
| | | EG1001 | Engineers in Society | 2 | | | |
| | | MA2003 | Introduction to Thermo-Fluids | 3 | | | |
| | | MH1811 | Mathematics II | 3 | | | |
| | | MA1001 | Dynamics | 3 | | | |
| | | MA1008 | Introduction to Computational Thinking | 3 | | | |
| | | MA1603 | Introduction to Embedded Systems | 3 | | | |
| | | MA2001 | Mechanics of Materials | 3 | | | |
| | | MA2002 | Theory of Mechanism | 3 | | | |
| | | MA2004 | Manufacturing Processes | 3 | | | |
| | | MA2006 | Engineering Mathematics | 3 | | | |
| | | MA2009 | Introduction to Electrical & Electronic Devices | 3 | | | |
| | | MA2071 | Laboratory Experiments | 1 | | | |
| | | MA2005 | Engineering Graphics | 3 | | | |
| | | MA2015 | Design Thinking and Methods | 3 | | | |
| | | MA2079 | Engineering Innovation and Design | 2 | | | |
| | | MA3001 | Machine Element Design | 3 | | | |
| | | MA3006 | Fluid Mechanics | 3 | | | |
| | | MA3002 | Solid Mechanics and Vibration | 3 | | | |
| | | MA3004 | Mathematical Methods in Engineering | 3 | | | |
| | | MA3005 | Control Theory | 3 | | | |
| | | MA3010 | Thermodynamics & Heat Transfer | 3 | | | |
| | | MA3071 | Engineering Experiments (ME) | 1 | | | |
| | | MA4079 | Final Year Project | 8 | | | |
| | | MA4014 | Intelligent Engineering Design | 4 | | | |
| | | BDE | HE1001 | Microeconomics I | | 3 | 18AU 15AU from compulsory Year 1 and 2 Economics Core courses. Remaining 3AU from Year 3 and 4 Economics PE that yield the highest CGPA. + 5AU (PA only) |
| | | | HE1002 | Macroeconomics I | | 3 | |
| | | | HE2001 | Microeconomics II | | 3 | |
| | | | HE2002 | Macroeconomics II | | 3 | |
| | | | HE2003 | Econometrics I | | 3 | |
| | | | HEXXXX | Economics PE | | 3 | |
| Major PE | MA48XX | Major-PE 1 | 3 | 6AU | | | |
| | MA48XX | Major-PE 2 | 3 | | | | |
| Interdisciplinary Collaborative Core | Common Core | CC0001 | Inquiry and Communication in an Interdisciplinary World | 2 | 14AU | | |
| | | CC0002 | Navigating the Digital World | 2 | | | |
| | | CC0003 | Ethics & Civics in a Multi-Cultural World | 2 | | | |
| | | CC0015 | Health & Wellbeing | 2 | | | |
| | | CC0006 | Sustainability: Society, Economy & Environment | 3 | | | |
| | | CC0007 | Science & Technology for Humanity | 3 | | | |
| | | ML0004 | Career Design & Workplace Readiness in the V.U.C.A World | 2 | | | |
| | Professional Series | HW0288 | Engineering Communication | 2 | | 16AU or 11AU (PA only) | |
| | | MA0218 | Introduction to Data Science and Artificial Intelligence | 3 | | | |
| | | MA3920/ MA3910 | Professional Internship/ Professional Attachment | 10/ 5 | | | |
| MLxxxx | | Profession Preparation | 1 | | | | |
| Care, Serve, Learn (CSL) | | Service Learning | 3 | 3 | | | |
| TOTAL | | | | 136/137* AU | | | |

*Students without 'A' Level/Senior High School Physics will take 'PH1012 Physics A' (4AU).

MEEC CGPA Computation (Intelligent Design and Manufacturing Stream)

BEng (Mechanical Engineering) and BSocSci (Economics)

(wef AY2026/2027 Intake onwards)

| List of courses that contribute towards BSocSci (Econs) | | | | AU Load | | |
|---|--------------------------------------|-------------------------------------|--|---|---|------|
| Discipline Requirement | Core | HE1001 | Microeconomics I | 3 | 32AU | |
| | | HE1002 | Macroeconomics I | 3 | | |
| | | HE2001 | Microeconomics II | 3 | | |
| | | HE2002 | Macroeconomics II | 3 | | |
| | | HE2003 | Econometrics I | 3 | | |
| | | HE3001 | Microeconomics III | 3 | | |
| | | HE3002 | Macroeconomics III | 3 | | |
| | | HE3003 | Econometrics II | 3 | | |
| | MA4079 | Final Year Project | 8 | | | |
| | MPE | MH1820 | Introduction to Probability and Statistical Methods | 3 | 33AU | |
| | | HE3XXX | Econs PE1 | 3 | | |
| | | HE3XXX | Econs PE2 | 3 | | |
| | | HE3XXX | Econs PE3 | 3 | | |
| | | HE3XXX | Econs PE4 | 3 | | |
| | | HE3XXX | Econs PE5 | 3 | | |
| | | HE3XXX | Econs PE6 | 3 | | |
| | | HE4XXX | Econs PE7 | 4 | | |
| | | HE4XXX | Econs PE8 | 4 | | |
| | BDE | MH1810 | Mathematics 1 | 3 | 9AU from Year 1 Engineering graded Core courses that yield the highest CGPA. | |
| | | PH1011 | Physics* | 3 | | |
| | | FE1073 | An Introduction to Engineering & Practices | 1 | | |
| | | EG1001 | Engineers in Society | 2 | | |
| | | MH1811 | Mathematics II | 3 | | |
| | | MA1001 | Dynamics | 3 | | |
| | BDE | MA1008 | Introduction to Computational Thinking | 3 | 18AU from Year 2 and 3 Engineering graded courses that yield the highest CGPA + 5AU (PA only) | |
| | | MA2003 | Introduction to Thermo-Fluids | 3 | | |
| | | MA2001 | Mechanics of Materials | 3 | | |
| | | MA2002 | Theory of Mechanism | 3 | | |
| | | MA2004 | Manufacturing Processes | 3 | | |
| | | MA2006 | Engineering Mathematics | 3 | | |
| | | MA2009 | Introduction to Electrical & Electronic Devices | 3 | | |
| | | MA2071 | Laboratory Experiments | 1 | | |
| | | MA2005 | Engineering Graphics | 3 | | |
| | | MA2015 | Design Thinking and Methods | 3 | | |
| | | MA2079 | Engineering Innovation and Design | 2 | | |
| | | MA3001 | Machine Element Design | 3 | | |
| | | MA3006 | Fluid Mechanics | 3 | | |
| | | MA3002 | Solid Mechanics and Vibration | 3 | | |
| | | MA1603 | Introduction to Embedded Systems | 3 | | |
| | MA3004 | Mathematical Methods in Engineering | 3 | | | |
| | MA3005 | Control Theory | 3 | | | |
| | MA3071 | Engineering Experiments (ME) | 1 | | | |
| | Interdisciplinary Collaborative Core | Common Core | CC0001 | Inquiry and Communication in an Interdisciplinary World | 2 | 14AU |
| CC0002 | | | Navigating the Digital World | 2 | | |
| CC0003 | | | Ethics & Civics in a Multi-Cultural World | 2 | | |
| CC0015 | | | Health & Wellbeing | 2 | | |
| CC0006 | | | Sustainability: Society, Economy & Environment | 3 | | |
| CC0007 | | | Science & Technology for Humanity | 3 | | |
| ML0004 | | | Career Design & Workplace Readiness in the V.U.C.A World | 2 | | |
| Professional Series | | HW0288 | Engineering Communication | 2 | 16AU or 11AU (PA only) | |
| | | MA0218 | Introduction to Data Science and Artificial Intelligence | 3 | | |
| | | MA3920/MA3910 | Professional Internship/ Professional Attachment | 10/5 | | |
| | | MLxxxx | Profession Preparation | 1 | | |
| | | | | | | |
| | | | | | | |
| | Care, Serve, Learn (CSL) | Service Learning | 3 | 3 | | |
| TOTAL | | | | 125AU | | |

*Students without 'A' Level/Senior High School Physics will take 'PH1012 Physics A' (4AU).