

LIST OF COMPULSORY AND ELECTIVE COURSES IN EVEN SEMESTER

| Code | Courses | Credit Points | | | Sta tus | Se mes ter | Requirements |
|----------|----------------------------------------|---------------|-----|---|----------------|------------------|-----------------------|
| | | C | Lab | S | | | |
| MPK60001 | Islamic Religion | 2 | - | 2 | W | 2 | - |
| MPK60002 | Catholics Religion | 2 | - | 2 | W | 2 | - |
| MPK60003 | Christian Religion | 2 | - | 2 | W | 2 | - |
| MPK60004 | Hinduism Religion | 2 | - | 2 | W | 2 | - |
| MPK60005 | Buddhism Religion | 2 | - | 2 | W | 2 | - |
| MAS62111 | Introduction to Probability Theory | 3 | - | 3 | W ⁺ | 2 | MAS61112 |
| MAS62121 | Statistical Method II | 2 | 1 | 3 | W | 2 | MAS61121 |
| MAS62122 | Introduction to Regression Analysis | 3 | - | 3 | W ⁺ | 2 | MAS61121 MAS62113 |
| MAS62112 | Mathematics I | 3 | - | 3 | W ⁺ | 2 | MAS61111 |
| MAS62113 | Matrices and Vector Spaces | 3 | - | 3 | W ⁺ | 2 | MAS61111 |
| MAS62331 | Financial Mathematics | 3 | - | 3 | W | 2 | MAS61111 |
| MAS62131 | Database | 2 | 1 | 3 | W | 4 | MAS61131 |
| MAS62114 | Introduction to Numerical Analysis | 2 | 1 | 3 | W | 4 | MAS62112, MAS61131 |
| MAS62332 | Statistical Quality Control | 3 | - | 3 | W ⁺ | 4 | MAS62121 |
| MAS62115 | Mathematical Statistics II | 3 | - | 3 | W ⁺ | 4 | MAS61114 |
| MPK60006 | Citizenship | 2 | - | 2 | W | 4 | - |
| MAS62221 | Categorical Data Analysis | 3 | - | 3 | W ⁺ | 4 | MAS62122, MAS62111 |
| MAS62123 | Multivariate Analysis I | 2 | 1 | 3 | W | 6 | MAS62115, MAS62113 |
| MAS62132 | Mining Data | 3 | - | 3 | W | 6 | MAS61132, MAS62131 |
| MAS62124 | Scientific Research and Writing Method | 2 | - | 2 | W | 6 | ≥ 90 credit points |
| UBU60001 | Final Project | 6 | - | 6 | W | 8 | ≥ 120 credit points |
| MAS62212 | Sciences | 2 | - | 2 | P | 2 | - |
| MAS62125 | Explanatory Data Analysis | 2 | - | 2 | P | 2 | MAS61121 |
| MAS62311 | Microeconomics | 3 | - | 3 | P | 2 | MAS61311 |
| MAS62133 | Data Structure | 2 | 1 | 3 | P | 4 | MAS61131 |
| MAS62211 | Analysis of Variance | 3 | - | 3 | P ⁺ | 4 | MAS61212 |

| Code | Courses | Credit Points | | | Sta tus | Se mes ter | Requirements |
|----------------------------|--------------------------------------|---------------|-----|-----|----------------|------------------|------------------------|
| | | C | Lab | S | | | |
| MAS62333 | Risk Theory | 3 | - | 3 | P | 4 | MAS62115, MAS61332 |
| MAS62321 | Simulation Method | 2 | - | 2 | P | 4 | MAS62111, MAS61131 |
| MAS62126 | Advanced Regression Analysis | 2 | 1 | 3 | P | 4 | MAS62122 |
| MAS62322 | Operation Research | 2 | 1 | 3 | P | 4 | MAS61321, MAS62111 |
| MAS62323 | Forecasting Methods | 2 | 1 | 3 | P | 6 | MAS61322 |
| MAS62134 | Advanced Computational Statistics | 2 | 1 | 3 | P ⁺ | 6 | MAS61132 |
| MAS62222 | Analysis of Survival | 3 | - | 3 | P | 6 | MAS62111, MAS62122 |
| MAS62135 | Fuzzy Logic Model | 3 | - | 3 | P | 6 | MAS61322 |
| MAS62334 | Industrial Statistics | 2 | - | 2 | P | 6 | MAS62332 |
| MAS62324 | Advanced Econometrics | 3 | - | 3 | P | 6 | MAS61323, MAS61322 |
| MAS62325 | Non Linear Time Series Analysis | 2 | - | 2 | P ⁺ | 6 | MAS61322 |
| MAS62223 | Capita Selecta of Life Sciences | 2 | - | 2 | P | 6 | ≥ 100 credit points |
| MAS62136 | Big Data Analysis | 3 | - | 3 | P | 6 | MAS62131, MAS61132 |
| Total credit points | | | | 115 | | | |

Notes:

Requirement is courses that have been taken in previous semester and not an E grade.

⁺ : the course has a tutorial class

C : credit points for class

Lab : credit points for laboratory session

S : sum of credits points

P : status of elective course

W : status of compulsory course