

KERALA UNIVERSITY
SYLLABUS FOR M.Sc. MATHEMATICS
SEMESTER PATTERN IN AFFILIATED COLLEGES
2013 ADMISSION ONWARDS

M.Sc. MATHEMATICS COURSE STRUCTURE & MARK DISTRIBUTION

| Semester | Paper Code | Title of the Paper | Distributi on hrs. per Semester | Instructional hrs./ week | | Dur ESA hrs. | Maximum Marks | | |
|----------|--------------------|----------------------------------|--|-----------------------------|---|--------------------|---------------|-------------|-------|
| | | | | L | P | | CA | ESA | Total |
| I | MM 211 | Linear Algebra | 108 | 6 | - | 3 hrs | 25 | 75 | 100 |
| | MM 212 | Real Analysis - I | 108 | 6 | - | " | 25 | 75 | 100 |
| | MM 213 | Diff. Equation | 108 | 6 | - | " | 25 | 75 | 100 |
| | MM 214 | Topology - I | 126 | 7 | - | " | 25 | 75 | 100 |
| | | | | | | | | | |
| II | MM 221 | Algebra | 108 | 6 | - | 3 hrs | 25 | 75 | 100 |
| | MM 222 | Real Analysis-II | 108 | 6 | - | " | 25 | 75 | 100 |
| | MM 223 | Topology-II | 108 | 6 | - | " | 25 | 75 | 100 |
| | MM 224 | Computer Programm- ing in C++ | 126 | 5 | 2 | " | 25 | 75 | 100 |
| III | MM 231 | Complex Analysis - I | 126 | 7 | - | 3 hrs | 25 | 75 | 100 |
| | MM 232 | Functional Analysis -I | 108 | 6 | - | " | 25 | 75 | 100 |
| | MM 233 | Elective - I | 108 | 6 | - | " | 25 | 75 | 100 |
| | MM 234 | Elective - II | 108 | 6 | - | " | 25 | 75 | 100 |
| IV | MM 241 | Complex Analysis - II | 126 | 7 | - | 3 hrs | 25 | 75 | 100 |
| | MM 242 | Functional Analysis-II | 108 | 6 | - | " | 25 | 75 | 100 |
| | MM 243 | Elective - III | 108 | 6 | - | " | 25 | 75 | 100 |
| | MM 244 | Elective - IV | 108 | 6 | - | " | 25 | 75 | 100 |
| | | | | | | | | | |
| | MM 245 | Dissertation / Project | | | | | | 80+20 | 100 |
| | | Comprehensive Viva | | | | | | | 100 |
| | GRAND TOTAL | | 1800 | | | | | 1800 | |

L: Lecture; P: Practical; CA: Continuous Assessment ; ESA: End Semester Examination

KERALA UNIVERSITY
SYLLABUS FOR M.Sc. MATHEMATICS
SEMESTER PATTERN IN AFFILIATED COLLEGES
2017 ADMISSIONWARDS

M.Sc. MATHEMATICS COURSE STRUCTURE & MARK DISTRIBUTION

| Semester | Paper Code | Title of the paper | Distribution hrs per semester | Instructional hrs./ week | | Dur ESA hrs. | Maximum Marks | | |
|----------|------------|------------------------------------|-------------------------------|--------------------------|---|--------------|---------------|-------|-------------|
| | | | | L | P | | CA | ESA | Total |
| I | MM 211 | Linear Algebra | 108 | 6 | - | 3 hrs | 25 | 75 | 100 |
| | MM 212 | Real Analysis - I | 108 | 6 | - | " | 25 | 75 | 100 |
| | MM 213 | Diff. Equation | 108 | 6 | - | " | 25 | 75 | 100 |
| | MM 214 | Topology - I | 126 | 7 | - | " | 25 | 75 | 100 |
| II | MM 221 | Abstract Algebra | 108 | 6 | - | 3 hrs | 25 | 75 | 100 |
| | MM 222 | Real Analysis-II | 108 | 6 | - | " | 25 | 75 | 100 |
| | MM 223 | Topology-II | 126 | 7 | - | " | 25 | 75 | 100 |
| | MM 224 | Scientific Programming with Python | 108 | 6 | | " | 25 | 75 | 100 |
| III | MM 231 | Complex Analysis-I | 126 | 7 | - | 3 hrs | 25 | 75 | 100 |
| | MM 232 | Functional Analysis-I | 108 | 6 | - | " | 25 | 75 | 100 |
| | MM 233 | Elective-I | 108 | 6 | - | " | 25 | 75 | 100 |
| | MM 234 | Elective-II | 108 | 6 | - | " | 25 | 75 | 100 |
| IV | MM 241 | Complex Analysis-II | 126 | 7 | - | 3 hrs | 25 | 75 | 100 |
| | MM 242 | Functional Analysis-II | 108 | 6 | - | " | 25 | 75 | 100 |
| | MM 243 | Elective-III | 108 | 6 | - | " | 25 | 75 | 100 |
| | MM 244 | Elective-IV | 108 | 6 | - | " | 25 | 75 | 100 |
| | MM 245 | Dissertation/ Project | | | | | | 80+20 | 100 |
| | | Comprehensive Viva | | | | | | | 100 |
| | | GRAND TOTAL | 1800 | | | | | | 1800 |

L: Lecture; P: Practical; CA: Continuous Assessment; ESA: End Semester Examination

KERALA UNIVERSITY SYLLABUS FOR M.Sc. MATHEMATICS SEMESTER PATTERN IN
AFFILIATED COLLEGES 2020 ADMISSION ONWARDS

M.Sc. MATHEMATICS COURSE STRUCTURE & MARK DISTRIBUTION

| Semester | | Title of the paper | Distribution hrs per semester | Instructional hrs./ week | | Dur ESA hrs. | Maximum Marks | | |
|--|--------|--|-------------------------------|--------------------------|---|--------------|---------------|-------------|-------|
| | | | | L | P | | CA | ESA | Total |
| I | MM 211 | Linear Algebra | 108 | 6 | - | 3 hrs | 25 | 75 | 100 |
| | MM 212 | Real Analysis - I | 108 | 6 | - | “ | 25 | 75 | 100 |
| | MM 213 | Ordinary Differential Equations | 108 | 6 | - | “ | 25 | 75 | 100 |
| | MM 214 | Topology - I | 126 | 7 | - | “ | 25 | 75 | 100 |
| | | | | | | | | | |
| II | MM 221 | Abstract Algebra | 108 | 6 | - | 3 hrs | 25 | 75 | 100 |
| | MM 222 | Real Analysis-II | 108 | 6 | - | “ | 25 | 75 | 100 |
| | MM 223 | Topology-II | 126 | 7 | - | “ | 25 | 75 | 100 |
| | MM 224 | Partial differential Equations and Calculus of Variation | 108 | 6 | | “ | 25 | 75 | 100 |
| III | MM 231 | Complex Analysis | 126 | 7 | - | 3 hrs | 25 | 75 | 100 |
| | MM 232 | Functional Analysis-I | 108 | 6 | - | “ | 25 | 75 | 100 |
| | MM 233 | Elective-I | 108 | 6 | - | “ | 25 | 75 | 100 |
| | MM 234 | Elective-II | 108 | 6 | - | “ | 25 | 75 | 100 |
| IV | MM 241 | Analytic Number Theory | 126 | 7 | - | 3 hrs | 25 | 75 | 100 |
| | MM 242 | Functional Analysis-II | 108 | 6 | - | “ | 25 | 75 | 100 |
| | MM 243 | Elective-III | 108 | 6 | - | “ | 25 | 75 | 100 |
| | MM 244 | Elective-IV | 108 | 6 | - | “ | 25 | 75 | 100 |
| | MM 245 | Dissertation/ Project | | | | | | 80+20 | 100 |
| | | Comprehensive Viva | | | | | | 100 | |
| | | GRAND TOTAL | 1800 | | | | | 1800 | |
| L: Lecture; P: Practical; CA: Continuous Assessment; ESA: End Semester Examination | | | | | | | | | |