

**Kunthavai Naacciyaar Govt. Arts College(W), (Autonomous),  
Thanjavur - 613 007  
(Course Structure for Students admitted from 2015 onwards)  
M.SC MATHEMATICS**

| S.NO                      | SEM | SUB CODE    | SUB TITLE                               | HOURS     | CREDIT    | CIA(MAX) | SE(MAX) | TOTAL | AGREE |
|---------------------------|-----|-------------|---|-----------|-----------|----------|---------|-------|-------|
| 1                         | I   | 15KP1M01    | LINEAR ALGEBRA                          | 6         | 5         | 25       | 75      | 100   | 50    |
| 2                         | I   | 15KP1M02    | REAL ANALYSIS                           | 6         | 5         | 25       | 75      | 100   | 50    |
| 3                         | I   | 15KP1M03    | ORDINARY DIFFERENTIAL EQUATIONS         | 6         | 4         | 25       | 75      | 100   | 50    |
| 4                         | I   | 15KP1M04    | GRAPH THEORY                            | 6         | 5         | 25       | 75      | 100   | 50    |
| 5                         | I   | 15KP1M05    | OPERATIONS RESEARCH                     | 6         | 4         | 25       | 75      | 100   | 50    |
| <b>Semester Credits :</b> |     |             |   | <b>30</b> | <b>23</b> |          |         |       |       |
| 6                         | II  | 15KP2M06    | ALGEBRA                                 | 6         | 4         | 25       | 75      | 100   | 50    |
| 7                         | II  | 15KP2M07    | COMPLEX ANALYSIS                        | 6         | 5         | 25       | 75      | 100   | 50    |
| 8                         | II  | 15KP2M08    | FUNCTIONAL ANALYSIS                     | 6         | 5         | 25       | 75      | 100   | 50    |
| 9                         | II  | 15KP2MELM1P | NUMERICAL METHODS PRACTICAL USING C++   | 6         | 5         | 40       | 60      | 100   | 50    |
| 10                        | II  | 15KP2MELO1  | NUMERICAL METHODS & OPERATIONS RESEARCH | 6         | 5         | 25       | 75      | 100   | 50    |
| 11                        | II  | 15KP2SSM1   | MATLAB - I                              | -         | 5         | -        | 100     | 100   | 50    |
| <b>Semester Credits :</b> |     |             |   | <b>30</b> | <b>24</b> |          |         |       |       |
| 12                        | III | 15KP3M09    | TOPOLOGY                                | 6         | 4         | 25       | 75      | 100   | 50    |
| 13                        | III | 15KP3M10    | INTEGRAL EQUATIONS AND TRANSFORMS       | 6         | 4         | 25       | 75      | 100   | 50    |
| 14                        | III | 15KP3M11    | CLASSICAL DYNAMICS                      | 6         | 5         | 25       | 75      | 100   | 50    |
| 15                        | III | 15KP3MELM2  | FUZZY ANALYSIS                          | 6         | 5         | 25       | 75      | 100   | 50    |
| 16                        | III | 15KP3MELO2  | OPTIMIZATION TECHNIQUES                 | 6         | 5         | 25       | 75      | 100   | 50    |
| 17                        | III | 15KP3SSM2   | MATLAB - II                             | -         | 5         | -        | 100     | 100   | 50    |
| <b>Semester Credits :</b> |     |             |   | <b>30</b> | <b>23</b> |          |         |       |       |
| 18                        | IV  | 15KP4M12    | MEASURE THEORY AND INTEGRATION          | 6         | 5         | 25       | 75      | 100   | 50    |
| 19                        | IV  | 15KP4M13    | PARTIAL DIFFERENTIAL EQUATIONS          | 6         | 4         | 25       | 75      | 100   | 50    |
| 20                        | IV  | 15KP4M14    | STOCHASTIC PROCESSES                    | 6         | 5         | 25       | 75      | 100   | 50    |
| 21                        | IV  | 15KP4M15PW  | PROJECT WORK                            | 12        | 6         | -        | 100     | 100   | 50    |
| <b>Semester Credits :</b> |     |             |   | <b>30</b> | <b>20</b> |          |         |       |       |
| <b>Total credits :</b>    |     |             |   |           | <b>90</b> |          |         |       |       |