

DEPARTMENT OF MATHEMATICS,
UNIVERSITY OF KARACHI,

Year / Semester wise Scheme of Studies of PhD Program

1st Year (Semester I) Course Code Course Title

S. No

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| 1 | Optional I |
| 2 | Optional II |
| 3 | Optional III |

1st Year (Semester II) Course Code Course Title

S. No

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|---|--------------|
| 1 | Optional I |
| 2 | Optional II |
| 3 | Optional III |

List of PhD Optional courses

SR. #. MATH CR. #. COURSE TITLES

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| 01. | MATH | 801 | COMPUTATIONAL METHODS FOR FLUID FLOW – I |
| 02. | MATH | 802 | COMPUTATIONAL METHODS FOR FLUID FLOW – II |
| 03. | MATH | 803 | MODELING AND SIMNULATION OF BIOLOGICAL SYSTEMS – I |
| 04. | MATH | 804 | MODELING AND SIMNULATION OF BIOLOGICAL SYSTEMS – II |
| 05. | MATH | 805 | SPECIAL CLASSES OF RINGS – I |
| 06. | MATH | 806 | SPECIAL CLASSES OF RINGS – II |
| 07. | MATH | 807 | STOCHASTIC PROCESSES |
| 08. | MATH | 808 | RENEWAL PROCESSES AND QUENING THEORY |
| 09. | MATH | 809 | THEORY OF MATHEMATICAL INQUALITIES AND APPLICATIONS – I |
| 10. | MATH | 810 | THEORY OF MATHEMATICAL INQUALITIES AND APPLICATIONS – II |
| 11. | MATH | 813 | THEORY OF MATRIX RINGS AND MATRIX NEAR RINGS – I |
| 12. | MATH | 814 | THEORY OF MATRIX RINGS AND MATRIX NEAR RINGS – II |

