School of Basic Sciences

PhD Course Structures

PhD degree core courses

S. No.	Course name	L	Т	P	С	Core/Electiv e
1	Research Methodology	2	0	0	2	Core
2	Statistics and Computer applications	2	0	0	2	Core
3	Ethics in Research and Publications	2	0	0	2	Core

PhD degree domain specific courses (Offered by School)

S. No.	Course name	L	Т	P	S	C	Core/Electiv e
1	Domain Specific course 1	3	0	0	1	4	Elective 1
2	Domain Specific course 2	3	0	0	1	4	Elective 2

Total credits: 14

Required credits as per UGC PhD regulations 2022: 12 Credits

List of Domain Specific courses

List of elective courses for PhD in Mathematics

S. No.	Course name	L	T	P	S	C
1	Functional analysis	3	0	0	1	4
2	Wavelet analysis	3	0	0	1	4
3	Fuzzy mathematics	3	0	0	1	4
4	Theory of elasticity	3	0	0	1	4
5	Fluid Mechanics	3	0	0	1	4
6	Advances in machine learning	3	0	0	1	4
7	Python programming	3	0	0	1	4
8	Advances in optimization techniques	3	0	0	1	4
9	Measure theory	3	0	0	1	4
10	Finite element method	3	0	0	1	4
11	Mathematical modeling	3	0	0	1	4
12	Dynamical systems and stability	3	0	0	1	4
13	Theory of Approximation and its Applications	3	0	0	1	4
14	Nonlinear Analysis	3	0	0	1	4