



List of subjects offered for the course work of PhD (Mathematics) Program

S.No	Course Code	Course title	Mode			Credits	Assessment	
			L	P	T		Internal (%)	End Sem (%)
1	DMATC10001	Research Methodology	3	0	1	4	40	60
2	DMATA10101	Research and Publication Ethics	2	0	0	2	40	60
3	DMATC10002	Advanced Fluid Mechanics	3	0	1	4	40	60
4	DMATC10003	Advanced Numerical Analysis	3	0	1	4	40	60
5	DMATC10004	Advanced Finite Difference Methods	3	0	1	4	40	60
6	DMATC10005	Advanced Computational Fluid Dynamics	3	0	1	4	40	60
7	DMACC10006	Programming Tools for Research	1	2	1	4	40	60
8	DMATC10007	Advanced Continuum Mechanics	3	0	1	4	40	60
9	DMATC10008	Advanced Finite Element Method	3	0	1	4	40	60
10	DMATC10009	Multi Variate Analysis	3	0	1	4	40	60
11	DMATC10010	Fuzzy Mathematics	3	0	1	4	40	60
12	DMATC10011	Advanced Finite Volume Method	3	0	1	4	40	60
13	DMATC10012	Bio-fluid Mechanics	3	0	1	4	40	60
14	DMATC10013	Perturbation Methods	3	0	1	4	40	60
15	DMATC10014	Spline Function & Applications	3	0	1	4	40	60
16	DMATC10015	Boundary Layer Theory	3	0	1	4	40	60
17	DMATC10016	Advanced Theory of Partitions	3	0	1	4	40	60
18	DMATC10017	Ramanujan's Theta Functions and Applications to Number Theory	3	0	1	4	40	60



19	DMATC10018	Advanced Differential Equations	2	0	1	3	40	60
20	DMATC10019	Mathematical Theory of Control	2	0	1	3	40	60
21	DMATC10020	Advanced Functional Analysis	1	0	1	2	40	60
22	DMATC10021	Advanced Linear Algebra	1	0	1	2	40	60
23	DMATD10201	Elective-I	3	0	1	4	As per MOOCs*	
24	DMATD10202	Elective-II	3	0	1	4	As per MOOCs*	

* MOOCs courses must be approved by the Department.