



TECHNO INDIA UNIVERSITY
WESTBENGAL

Syllabus for 1-Year M.Sc. in Computational Mathematics



Department of Mathematics

**Techno India University, West Bengal
EM-4, EM Block, Sector V, Bidhannagar,
Kolkata, West Bengal 700091**



M.Sc. in Computational Mathematics
Course Curriculum for All Semester

Semester I

Sl. No.	Course Code	Course Title	Contact Hrs. / Week			Credit	Page No.
			L	T	P		
Theory							
1	MCM101_TIU	Financial Mathematics	05	00	00	5	
2	MCM102_TIU	Continuum Mechanics	05	00	00	5	
4	MCM103_TIU	Advanced Vector Analysis	05	00	00	5	
5	MCM104_TIU	Numerical Analysis	06	00	00	6	
Practical							
3	MCM101L_TIU	Numerical Analysis: Lab	00	00	04	4	
Total Credit						25	

Semester II

Sl. No.	Course Code	Course Title	Contact Hrs. / Week			Credit	Page No.
			L	T	P		
Theory							
1	MCM201_TIU	Functional Analysis	06	00	00	6	
2	MCM202_TIU	Stochastic Process	05	00	00	5	
3	MCM203_TIU	Advanced Algorithm	06	00	00	6	
4	MCM204_TIU	Quantum Computing and Quantum Information Processing	05	01	00	6	
5	MCM205_TIU	Project Submission and Grand Viva (Publication)	05	00	00	5	
Practical							
1	MCM201L_TIU	Advanced Algorithm: LAB	00	00	03	3	



2	MCM202L_TIU	Quantum Computing and Quantum Information Processing: LKAB	00	00	04	4	
Total Credit						35	