

**Malaviya National Institute of Technology Jaipur**  
**National Centre for Disaster Mitigation and Management**  
**M. Tech. (Earthquake Engineering)**

**Program Objective: To impart Training for Analysis, Behavior and Design of Structures Subjected to Earthquake Loading**

Code	Course Title	Credit
<b>Semester 1</b>		
EQT 601	1. Seismology & Geotechnical Earthquake Engineering	3(3 0 0)
EQT 603	2. Earthquake Structural Dynamics	3(3 0 0)
EQT 605	3. Earthquake Design Concepts	3(30 0)
EQT 607	4. Earthquake Resistant Design of Steel Structures	3(3 0 0)
EQT 609	5. Finite Element Methods	3(3 0 0)
EQP 611	6. Earthquake Dynamics Laboratory	2(0 2 2)
Total Semester Credits		17
<b>Semester 2</b>		
EQT 602	1. Nonlinear analysis of Structures	3(3 0 0)
EQT 604	2. Earthquake Analysis of Structures	3(3 0 0)
EQT 606	3. Ductile Design of RC Structures	3(3 0 0)
EQT 608	4. Earthquake Resistant Design of Masonry Structures	3(3 0 0)
EQT 610	5. Earthquake Retrofitting of Structures	3(3 0 0)
EQT 612	6. Earthquake Geotechnical Engineering	3(3 0 0)
EQT 614	7. Structural Control	3(3 0 0)
Total Semester Credits (any six courses)		18
Total course Credits (I & II Semester)		35
<b>Semester 3</b>		
	Seminar-Project	4(0 0 8)
	Dissertation/Thesis	16(0 0 32)
Total Semester Credits		20
	Dissertation/Thesis	16(0 0 32)
Total Semester Credits		16
Total Credits (III & IV Semester)		36
Total Program Credits (all four semester)		71