## Unit-1- 16ME401 Finite Element Analysis-INTRODUCTION





# ME402 Finite Element Analysis – INTRODUCTION - Historical Background

### Present

Status of FEM as on Today

Theoretical	Software	Practical Applications
Till 1994: In India FEM was offered as post graduate course only at few universities	Three steps for using any FEA software	CAE groups get following types of job orders
	1. Preprocessing	1. New Design
1995 and onwards: Introduced at	- Salid modeling	
graduate level.	- Meshing	2. Cost cutting /
	- Boundary conditions	Optimization
Theory courses mainly deals with		
1. Various methods to derive (K)	2. Processing or Solution	3. Failure Analysis
Assembly of (K)		
3. Solution Techniques	3. Postprocessing	
	- Result interpretation	

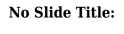
Programming languages used for most commercial softwares are Fortran and C++.

Dr.M.SUBRAMANIAN

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Thirumalaisamy P. Velavancorresponding



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