



**TULSIRAMJIGAIKWAD-PATIL College of Engineering and Technology**

Wardha Road, Nagpur - 441108

Accredited with NAAC A+ Grade

Approved by AICTE, New Delhi, Govt. of Maharashtra

**(An Autonomous Institute Affiliated to RTM Nagpur University)**



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**Department of Civil Engineering**

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M.Tech Structural Engineering

Course Name **MSE1105: Structural Optimization**

MSE1105	Course Outcomes
CO1	<b>Execute</b> Variational principle for optimization
CO2	<b>Apply</b> optimization techniques to structural steel and concrete members.
CO3	<b>Analyze</b> liner programming concept with respect structural optimization
CO4	<b>Compare</b> the Geometric programming and stochastic programming
CO5	<b>Design</b> of concrete members by using frequency constraint.