



Optimization in Civil Engineering

SWAYAM Prabha Course Code - C4

PROFESSOR'S NAME	Prof. Avijit Maji
DEPARTMENT	Civil Department
INSTITUTE	Indian Institute of Technology, Bombay
Course Outline	The course is about various optimization techniques and algorithms used to solve engineering problems. In this course the following topics will be discussed: Introduction to optimization problem Single variable optimization Multi-variable optimization Unconstrained optimization Constrained optimization Linear programming Integer programming Non-linear programming Optimization problem solution algorithms

COURSE DETAILS

S. No	Module ID/ Lecture ID	Lecture Title/Topic
1	L1	Introduction to optimization
2	L2	Single variable optimization
3	L3	Unconstrained multivariable optimization
4	L4	Multivariable optimization problems with equality constraints - I
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References if Any: