

INTRODUCTION TO ACCOUNTING AND FINANCE FOR CIVIL ENGINEERS

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INTENDED AUDIENCE: Undergraduate and graduate students of civil engineering are the primary targeted audience. Young practicing engineers and engineering students from other departments may also find it very useful.

INDUSTRIES APPLICABLE TO : All construction and consulting companies in the area of planning, design and construction of infrastructure projects. The material will also be useful for companies engaged in BOOT and other models of working with projects, especially in the highway sector.

COURSE OUTLINE :

With the changing paradigm of the construction industry, and introduction of different contracting models, with the government trying to play more of a regulatory role and withdrawing from financial commitments, and the space being occupied by financial institutions, civil engineers in the modern day are expected to be familiar with basic accounting and finance. This aspect is almost completely missing from any curriculum in civil engineering and hence there is a need to make relevant material available in an online course, which students and practicing engineers can refer to at their convenience.Regular assignments and a final test will also be uploaded along with solutions as may be required.

ABOUT INSTRUCTOR :

Prof. Sudhir Misra is Professor at the Department of Civil Engineering, Indian Institute of Technology Kanpur and has a keen interest in concrete materials, construction and engineering. He has worked with consulting and construction companies also during his 35 years of professional experience, and also led the effort to initiate a graduate programme in Infrastructure Engineering and Management at IIT Kanpur. He has been a member of committees of the BIS and also worked with professional organizations in Japan and India. His research interests include durability and non-destructive testing of concrete and development and utilization of special concretes. A lecture module of Concrete Engineering and Technology by him is also available online under the NPTEL scheme of the Government of India.

Prof. Kumar Neeraj Jha is with the Department of Civil Engineering, Indian Institute of Technology Delhi. He started his career with Larsen and Toubro Ltd and was instrumental in successful completion of a number of construction projects of national importance. He has published more than 80 papers in a number of international and national journals and conference proceedings. He has supervised 4 PhD Students and more than 60 M.Tech. students.

COURSE PLAN:

Week 1: Basic Accounting and concepts in finance

Week 2: Accounting & Concepts in Finance I

Week 3: Accounting & Concepts in Finance II

Week 4: Analysis of financial statements I

Week 5: Analysis of financial statements II

Week 6: Financial planning including capital budgeting I

Week 7: Financial planning including capital budgeting II

Week 8: Financial planning including capital budgeting III