

# Advanced Foundation Engineering - Web course

## COURSE OUTLINE

This course introduces the fundamental concepts, advanced principles and application of foundation analysis and design to the undergraduate students of civil engineering.

### Contents:

- Subsurface Exploration, Shallow Foundations - Ultimate bearing capacity, Safe bearing pressure, settlement analysis.
- Design of Combined and Raft foundations, Design of Retaining walls, Sheet pile walls, Braced cuts, Pile foundations, Drilled piers and Caissons.
- Machine Foundations, Concept of reinforced earth.

## COURSE DETAIL

SL No.	Topic	No. of Hours
1	<b>Subsurface Exploration:</b> <ul style="list-style-type: none"> <li>• Boring, Sampling, SPT, CPT, Geophysical methods, Bore log and soil report.</li> </ul>	02
2	<b>Shallow Foundations:</b> <ul style="list-style-type: none"> <li>• Terzaghi's, Meyerhoff, Hansens bearing capacity theories, based on SPT, layered soils, eccentric and inclined loads.</li> <li>• Bearing capacity on slopes, Foundation settlements.</li> </ul>	06
3	<b>Design of Combined and Raft Foundations :</b> <ul style="list-style-type: none"> <li>• Design of combined footings by Conventional and elastic line methods.</li> </ul>	04
4	<b>Design of Retaining walls :</b> <ul style="list-style-type: none"> <li>• Lateral earth pressure, Retaining wall stability.</li> </ul>	03
5	<b>Sheet Pile Walls :</b> <ul style="list-style-type: none"> <li>• Cantilever and Anchored sheet pile walls.</li> </ul>	02



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## Civil Engineering

### Pre-requisites:

1. Soil Mechanics (Geotechnical Engineering I).
2. Foundation Engg (Geotechnical Engineering II).

### Additional Reading:

1. Literature on Advanced foundations IS codes on foundations.

### Coordinators:

**Dr. T.G. Sitharam**  
Department of Civil Engineering@IISc  
Bangalore

# Advanced Foundation Engineering Nptel

**Yi-Tong Ma**



## **Advanced Foundation Engineering Nptel:**

*From Fundamentals to Applications in Geotechnics* D. Manzanal, A.O. Sfriso, 2015-12-11 The work of geotechnical engineers contributes to the creation of safe economic and pleasant spaces to live work and relax all over the world Advances are constantly being made and the expertise of the profession becomes ever more important with the increased pressure on space and resources This book presents the proceedings of the 15th Pan American Conference on Soil Mechanics and Geotechnical Engineering XV PCSMGE held in Buenos Aires Argentina in November 2015 This conference held every four years is an important opportunity for international experts researchers academics professionals and geo engineering companies to meet and exchange ideas and research findings in the areas of soil mechanics rock mechanics and their applications in civil mining and environmental engineering The articles are divided into nine sections transportation geotechnics in situ testing geo engineering for energy and sustainability numerical modeling in geotechnics foundations and ground improvement unsaturated soil behavior embankments dams and tailings excavations and tunnels and geo risks and cover a wide spectrum of issues from fundamentals to applications in geotechnics This book will undoubtedly represent an essential reference for academics researchers and practitioners in the field of soil mechanics and geotechnical engineering In this proceedings approximately 65% of the contributions are in English and 35% of the contributions are in Spanish or Portuguese

*Advances in Sustainable Construction Materials* Sabyasachi Biswas, Subhadeep Metya, Sanjay Kumar, Pijush Samui, 2021-04-10 This book presents select proceedings of National Conference on Advances in Sustainable Construction Materials ASCM 2020 and examines a range of durable energy efficient and next generation construction materials produced from industrial wastes and by products The topics covered include sustainable materials and construction innovations in recycling concrete green buildings and innovative structures utilization of waste materials in construction geopolymer concrete self compacting concrete by using industrial waste materials nanotechnology and sustainability of concrete environmental sustainability and development recycling solid wastes as road construction materials emerging sustainable practices in highway pavements construction plastic roads pavement analysis and design application of geosynthetics for ground improvement sustainability in offshore geotechnics green tunnel construction technology and application ground improvement techniques and municipal solid waste landfill Given the scope of contents the book will be useful for researchers and professionals working in the field of civil engineering and especially sustainable structures and green buildings

*Fundamentals of Offshore Engineering* Srinivasan Chandrasekaran, Surasak Phoemsapthawee, Shanker Krishna, Hari Sreenivasan, 2024-10-28 Fundamentals of Offshore Engineering addresses the basics of design for offshore oil and gas production systems and examines the health safety and environmental HSE aspects in the oil and gas industry with emphasis toward safety measures in design and operations It also covers fundamental issues of crude oil and natural gas exploration and extraction and also includes coverage of seismic surveys and green energy systems Details of offshore

platforms describing the types historical development basics of analysis and design environmental loads and potential hazards are also provided The book serves as a useful resource for universities that teach offshore engineering to senior undergraduate and graduate students as well as a guide for practicing engineers Includes coverage of wave loads wind loads ice loads and fire loads on structures Discusses offshore pipelines and subsea engineering to help readers understand the fundamentals of petroleum production and related pipeline installation **Annual Report** India. Department of School Education & Literacy,2014 *Measurements And Metrology : Lab Manual for Engineering Students* VISHAL RAJAK,2026-03-18 This manual provides engineering students with a comprehensive series of hands on metrology experiments designed to build precision and confidence in measurement techniques It focuses on accurate calibration using core instruments such as slip gauges sine bars micrometers universal bevel protractor dial indicators and more Students begin with calibration tasks micrometers and dial indicators are calibrated against slip gauge standards learning the critical wringing technique and how to assess tolerance errors They then move on to taper angle measurement experiments using sine bars supported by slip gauge stacks verified through dial indicator readings to ensure exact angular alignment

Gamification Practices for Service Ecosystem Experiences Sesliokuyucu, Osman Seraceddin,2025-10-02 Gamification has emerged as a powerful strategy for enhancing engagement and motivation within service ecosystems By using game design elements such as rewards and narratives into service interactions companies can transform routine experiences into dynamic journeys Where multiple stakeholders co create value through interconnected networks gamification practices offer new ways to align interests and enrich user experiences across digital and physical touchpoints Using gamification in shaping service ecosystem experiences can also strengthen stakeholder relationships and generate meaningful engagement at scale Gamification Practices for Service Ecosystem Experiences explores how gamified systems enhance customer experience empower employees and drive value co creation This book highlights the ethical and societal implications of gamification fostering responsible research and practice in the field Covering topics such as customer service customer experience and gamification this book is an excellent resource for academics educators industry professionals policy makers and graduate students **MACHINE LEARNING CONCEPTS, ALGORITHMS AND APPLICATIONS** Dr. A.V.H.Sai Prasad ,Dr. I.Uma Maheswara Rao ,Vazralu Munnangi ,Gurrala Swetha,2025-12-01 In the past two decades the field of Machine Learning ML has evolved from a niche area of computer science into a cornerstone of modern technology and scientific discovery From personalized recommendations and medical diagnostics to autonomous systems and intelligent decision making machine learning now permeates nearly every domain of human activity This book Machine Learning Concepts Algorithms and Applications is written with the goal of providing a comprehensive yet accessible understanding of the fundamental principles key algorithms and diverse applications that define this transformative field The motivation for this book arises from the need to bridge the gap between theoretical foundations and practical implementation While many texts emphasize

either the mathematical depth or the coding aspects of machine learning this volume strives to integrate both perspectives Readers will find rigorous explanations of core concepts such as supervised and unsupervised learning model evaluation and optimization alongside hands on examples pseudocode and real world case studies that illustrate how these ideas are applied in practice The book is organized to guide readers progressively from fundamental ideas to advanced topics Early chapters introduce the conceptual underpinnings of learning systems data representation and model generalization Subsequent sections delve into classical algorithms such as linear regression decision trees support vector machines and neural networks The later chapters explore advanced paradigms including deep learning ensemble methods reinforcement learning and the ethical dimensions of intelligent systems Throughout the emphasis remains on clarity intuition and practical relevance This book is intended for undergraduate and graduate students in computer science data science engineering and related disciplines as well as for professionals and researchers seeking a solid foundation in machine learning Each chapter includes exercises illustrative examples and references to encourage deeper exploration and critical thinking Machine learning continues to evolve at an unprecedented pace It is our hope that this book not only serves as a guide to current techniques but also inspires readers to contribute to the next generation of intelligent systems surrounded by understanding driven by curiosity and guided by ethical responsibility

**Foundations of Environmental Studies: Principles, Challenges and Sustainable Practices** Ms. K. Lavanya, Ms. Akella Ramya, Dr. R. S. S. Srikanth Vemuri, Mrs. Varalakshmi Potala, 2025-03-17

This book Foundations of Environmental Studies serves as an essential guide for understanding the intricate and multidimensional interactions between humans and their environment It presents a comprehensive overview of environmental science focusing on the interplay between natural resources ecosystems and sustainable practices Aimed at learners and professionals this text bridges theoretical knowledge with real world applications fostering environmental awareness and responsibility The content emphasizes key environmental challenges from resource management to ecological balance underscoring the necessity for a global perspective and individual action in addressing contemporary issues Through case studies illustrations and clear explanations this book aspires to equip readers with the knowledge and motivation needed to contribute to a sustainable future

**The Biotechnology Career Guide** Dr. Gaurav Kumar, 2026-01-19 The Biotechnology Career Guide is a comprehensive and practical roadmap for students and early career professionals seeking clarity and direction in the rapidly evolving field of biotechnology Designed to bridge the gap between academic learning and real world opportunities this book presents biotechnology not only as a scientific discipline but as a diverse and dynamic career ecosystem The book covers foundational concepts and core techniques in biotechnology followed by in depth exploration of educational pathways sector specific career opportunities in medical agricultural industrial and environmental biotechnology and emerging roles driven by innovation and technology Dedicated chapters address government and private sector employment higher studies and research opportunities entrepreneurship and startups and the essential technical

analytical communication and regulatory skills required to succeed in today's competitive landscape. With a strong emphasis on career readiness, the book integrates ethical and regulatory perspectives, global trends, and future prospects, helping readers make informed and responsible professional decisions. Contributions from undergraduate, postgraduate, and doctoral students developed under academic supervision add practical insights and diverse perspectives. Written for undergraduate and postgraduate students, researchers, educators, and aspiring professionals, *The Biotechnology Career Guide* serves as both a reliable academic reference and a career planning companion. Whether you are exploring biotechnology for the first time or preparing to take the next step in your professional journey, this book equips you with the knowledge, skills, and vision to build a meaningful and impactful career in biotechnology.

**Blockchain: A Comprehensive Guide** Ms. Alpna Rani, Ms. Shalini Singh, Mr. Nilesh Pandey, Dr. Priyanka Verma, 2026-01-19

Advanced Foundation Engineering V. N. S. Murthy, 2007-02

**Advanced Foundation Engineering** T. G. Sitharam, 2018-08-28

Advanced Foundation Engineering introduces an excellent source of information on the fundamental concepts, advanced principles, and application of foundation analysis and design for civil engineering audience. The comprehensive review of all the theories required for practice of foundation engineering has been presented in this book. The book includes topics like Soil Exploration, Shallow Foundation Design and Analysis of Mat foundation, Earth Pressure, Sheet Pile Wall, Braced Cuts, Drilled Piers and Caissons, Pile Foundation, Machine Foundations, Geotextiles, Reinforced Earth, and Ground Anchors. The case studies have been included with chapters for better understanding of topics. Key Features: Provides full coverage of theories of foundation engineering along with theoretical and practical oriented approach of design. Design aspects which covers some ground improvement methodologies like Geocell foundation etc. has also been presented. Individual chapters on advanced wave interaction, consideration for foundations of offshore structures, structural design of foundation, foundation on problematic soil, earthquake effect on foundation system and ground improvement techniques. Case studies, practical examples including design and analysis of MAT foundation using latest design software. Practical and theoretical approach of foundation design with examples using latest software.

**Advanced Deep Foundation Engineering** Terence Patrick Holman, Shi-Chieh Cheng, Joseph P. Martin, 2000

*The Foundation Engineering Handbook* Manjriker Gunaratne, 2006-01-13

Great strides have been made in the art of foundation design during the last two decades. In situ testing, site improvement techniques, the use of geogrids in the design of retaining walls, modified ACI codes, and ground deformation modeling using finite elements are but a few of the developments that have significantly advanced foundation engineering in recent years. What has been lacking, however, is a comprehensive reference for foundation engineers that incorporates these state-of-the-art concepts and techniques. *The Foundation Engineering Handbook* fills that void. It presents both classical and state-of-the-art design and analysis techniques for earthen structures and covers basic soil mechanics and soil and groundwater modeling concepts along with the latest research results. It addresses isolated and shallow footings, retaining structures, and modern methods of pile construction, monitoring, as

well as stability analysis and ground improvement methods The handbook also covers reliability based design and LRFD Load Resistance Factor Design concepts not addressed in most foundation engineering texts Easy to follow numerical design examples illustrate each technique Along with its unique comprehensive coverage the clear concise discussions and logical organization of The Foundation Engineering Handbook make it the one quick reference every practitioner and student in the field needs *Foundation Engineering Analysis and Design* An-Bin Huang,Hai-Sui Yu,2017-12-06 One of the core roles of a practising geotechnical engineer is to analyse and design foundations This textbook for advanced undergraduates and graduate students covers the analysis design and construction of shallow and deep foundations and retaining structures as well as the stability analysis and mitigation of slopes It progressively introduces critical state soil mechanics and plasticity theories such as plastic limit analysis and cavity expansion theories before leading into the theories of foundation lateral earth pressure and slope stability analysis On the engineering side the book introduces construction and testing methods used in current practice Throughout it emphasizes the connection between theory and practice It prepares readers for the more sophisticated non linear elastic plastic analysis in foundation engineering which is commonly used in engineering practice and serves too as a reference book for practising engineers A companion website provides a series of Excel spreadsheet programs to cover all examples included in the book and PowerPoint lecture slides and a solutions manual for lecturers Using Excel the relationships between the input parameters and the design and analysis results can be seen Numerical values of complex equations can be calculated quickly non linearity and optimization can be brought in more easily to employ functioned numerical methods And sophisticated methods can be seen in practice such as p y curve for laterally loaded piles and flexible retaining structures and methods of slices for slope stability analysis *Advanced Foundation Engineering* Moses Karakouzian,2026-04-13 A practical straightforward and easy to use graduate level textbook on the principles of foundation engineering Advanced Foundation Engineering offers clear and detailed coverage of all aspects of the design analysis construction and testing of structural elements responsible for transferring imposed loads from a superstructure to the ground Written for advanced undergraduate and graduate engineering students this comprehensive textbook incorporates traditional foundation engineering topics as well as recent advances and innovations in the field The authors include discussion of timely issues such as the impact of the digital revolution worldwide environmental concerns the increasing scarcity of raw materials the use of geotechnical data banks the sustainability of construction materials and new site investigation techniques Focused on practical application rather than theoretical background 27 in depth chapters address the principles of geotechnical engineering spread footings and mats ground modifications floating and shell foundations single piles and drilled shafts testing and calculation procedures and more Detailed case studies in each chapter connect the principles and performance of a particular foundation system illustrate the measurement and evaluation of performance criteria demonstrate the accuracy of analytical predictions and validate the assumptions made in the analysis

and design process Providing the knowledge base required to design and build foundations for various types of onshore offshore and inland structures Advanced Foundation Engineering Outlines the key components of foundation systems contemporary classification systems analysis considerations and design procedures Covers diverse types of foundations and construction techniques including shallow and semi deep foundations skirted and bucket foundations floating foundations and pile groups Describes data synthesis in preparing geotechnical reports interactions between problematic soils and foundation design and factors influencing the engineering properties of geomaterials Reviews the construction of various foundations on different geomaterials key geotechnical requirements and soil improvement methods Provides insights into mitigating foundation issues optimizing foundation selection and maximizing existing foundations Advanced Foundation Engineering Principles Performance and Prospects is an ideal textbook for advanced undergraduate and graduate courses in foundation engineering and geotechnical engineering and an invaluable reference for professional geotechnical engineers

**A Short Course in Foundation Engineering** N. E. Simons, Bruce Menzies, 2000 Although there are now a large number of computer programmes for solving all sorts of foundation design problems the need to check these outputs by hand calculation has become vitally important This book concentrates on getting the fundamentals right and then using them in practical applications The book is illustrated with numerous worked examples and with quick reference tables and charts In this new edition the original highly acclaimed text has been extended and updated and now includes major new sections on short term and long term stability critical state interpretation of peak strength seismic methods for measuring ground stiffness in situ and offshore pile design total stress and effective stress approaches A *The Art of Foundation Engineering Practice* Mohamad H. Hussein, J. Brian Anderson, William M. Camp, 2010 GSP 198 honoring Clyde N Baker Jr P E S E Dist M ASCE contains 40 technical papers on the engineering design analysis construction and monitoring of foundations

*Problem Solving in Foundation Engineering using foundationPro* Mohammad Yamin, 2015-09-08 This book is at once a supplement to traditional foundation engineering textbooks and an independent problem solving learning tool The book is written primarily for university students majoring in civil or construction engineering taking foundation analysis and design courses to encourage them to solve design problems Its main aim is to stimulate problem solving capability and foster self directed learning It also explains the use of the foundationPro software available at no cost and includes a set of foundation engineering applications Taking a unique approach Dr Yamin summarizes the general step by step procedure to solve various foundation engineering problems illustrates traditional applications of these steps with longhand solutions and presents the foundation Pro solutions The special structure of the book allows it to be used in undergraduate and graduate foundation design and analysis courses in civil and construction engineering The book stands as valuable resource for students faculty and practicing professional engineers This book also Maximizes reader understanding of the basic principles of foundation engineering shallow foundations on homogeneous soils single piles single drilled shafts and mechanically stabilized earth

walls MSE Examines bearing capacity and settlement analyses of shallow foundations considering varying elastic moduli of soil and foundation rigidity piles and drilled shafts Examines internal and external stabilities of mechanically stabilized earth walls with varying horizontal spacing between reinforcing strips with depth Summarizes the step by step procedure needed to solve foundation engineering problems in an easy and systematic way including all necessary equations and charts A *short course in foundation engineering* ,1977

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