# 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

SIL No.	Topic	No. of Hours
1	Subsurface Exploration:  Boring, Sampling, SPT, CPT, Geophysical methods, Bore log and soil report.	02
2	Shallow Foundations:  Terzaghi's, Meyerhoff, Hansens bearing capacity theories, based on SPT, layered soils, eccentric and inclined loads.  Bearing capacity on slopes, Foundation settlements.	08
3	Design of Combined and Raft Foundations :     Design of combined footings by Conventional and elastic line methods.	04
4	Design of Retaining walls :  • Lateral earth pressure, Retaining wall stability.	03
5	Sheet Pile Walls :  - Cantilever and Anchored sheet pile walls.	02



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Civil Engineering

#### Pre-requisites:

- Soil Mechanics (Geotechnical Engineering I).
- Foundation Engg (Geotechnical Engineering II).

#### Additional Reading:

 Literature on Advanced foundations IS codes on foundations.

#### Coordinators:

Dr. T.G. Sitharam Department of Civil Engineering/ISc Bangalore

# **Advanced Foundation Engineering Nptel**

CHATTOPADHYAY, BIKASH CHANDRA, MAITY, JOYANTA

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

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 Advanced Foundation Engineering V. N. S. Murthy, 2017-08-30 Fundamentals of Offshore Engineering buildings 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 **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 School of Science and Humanities: Basic Research Methods Mr. Rohit Manglik, 2024-04-18 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials

and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Offshore Structural **Engineering** Srinivasan Chandrasekaran, 2017-12-19 Successfully estimate risk and reliability and produce innovative yet reliable designs using the approaches outlined in Offshore Structural Engineering Reliability and Risk Assessment A hands on guide for practicing professionals this book covers the reliability of offshore structures with an emphasis on the safety and reliability of offshore facilities during analysis design inspection and planning Since risk assessment and reliability estimates are often based on probability the author utilizes concepts of probability and statistical analysis to address the risks and uncertainties involved in design He explains the concepts with clear illustrations and tutorials provides a chapter on probability theory and covers various stages of the process that include data collection analysis design and construction and commissioning In addition the author discusses advances in geometric structural forms for deep water oil exploration the rational treatment of uncertainties in structural engineering and the safety and serviceability of civil engineering and other offshore structures An invaluable guide to innovative and reliable structural design this book Defines the structural reliability theory Explains the reliability analysis of structures Examines the reliability of offshore structures Describes the probabilistic distribution for important loading variables Includes methods of reliability analysis Addresses risk assessment and more Offshore Structural Engineering Reliability and Risk Assessment provides an in depth analysis of risk analysis and assessment and highlights important aspects of offshore structural reliability. The book serves as a practical reference to engineers and students involved in naval architecture ocean engineering civil structural and petroleum engineering

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 Virtual Reality Steven M. LaValle, 2023-11-02 An interdisciplinary text for students researchers and developers that blends foundations of virtual reality with industry insights **Advanced Deep Foundation Engineering Terence** Patrick Holman, Shi-Chieh Cheng, Joseph P. Martin, 2000 Foundation Design N. S. V. Kamesware Rao, 2010-12-30 In Foundation Design Theory and Practice Professor N S V Kameswara Rao covers the key aspects of the subject including

principles of testing interpretation analysis soil structure interaction modeling construction guidelines and applications to rational design Rao presents a wide array of numerical methods used in analyses so that readers can employ and adapt them on their own Throughout the book the emphasis is on practical application training readers in actual design procedures using the latest codes and standards in use throughout the world Presents updated design procedures in light of revised codes and standards covering American Concrete Institute ACI codes Eurocode 7 Other British Standard based codes including Indian codes Provides background materials for easy understanding of the topics such as Code provisions for reinforced concrete Pile design and construction Machine foundations and construction practices Tests for obtaining the design parameters Features subjects not covered in other foundation design texts Soil structure interaction approaches using analytical numerical and finite element methods Analysis and design of circular and annular foundations Analysis and design of piles and groups subjected to general loads and movements Contains worked out examples to illustrate the analysis and design Provides several problems for practice at the end of each chapter Lecture materials for instructors available on the book s companion website Foundation Design is designed for graduate students in civil engineering and geotechnical engineering The book is also ideal for advanced undergraduate students contractors builders developers heavy machine manufacturers and power plant engineers Students in mechanical engineering will find the chapter on machine foundations helpful for structural engineering applications Companion website for instructor resources www wiley com go rao Foundation Engineering: Principles, Perfo Rmance and Prospects Karakouzian, 2024-08-08 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 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 A Short Course in Foundation Engineering N. E. Simons, Bruce Menzies, 2000 Although there are now a of foundations 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 FOUNDATION ENGINEERING CHATTOPADHYAY, BIKASH CHANDRA, MAITY, JOYANTA, 2014-12-30 The book is primarily intended for undergraduate and postgraduate students of civil engineering It is also useful for the students of AMIE and a diploma course in civil engineering The book is planned as a text for the first course in foundation engineering and presents the principles and practices of selection and design of foundation for structures in a simple and concise manner Codal references have been given to acquaint the students with prevalent methodologies adopted in practise in the country The book provides topics of wide interest such as machine foundation foundation on problematic soil and ground improvement techniques A large number of solved examples and multiple choice questions are included to help readers for easy understanding of the principle of design and memorising important details for practical application The information contained in the book is also helpful for the scholars pursuing research study and practicing engineers confronted in the field Key Features Simple and systematic

presentation of the subject matter A large number of solved and unsolved problems for practice MCQs with answers to help students appearing in competitive examinations GATE IES IAS etc Annexure for ready references in different allied Problem Solving in Foundation Engineering using foundationPro Mohammad engineering topics 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

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