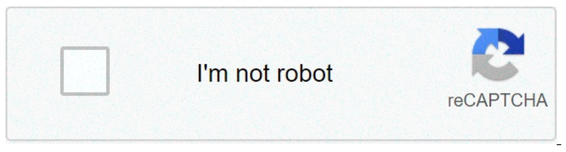

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Problem solving and python programming lecture notes pdf

Main section: 9:30-10:20 MWF Room W10 PBB (John Papajohn Business Building) Evening section: 5:00-6:45 MW, Room 118 MLH (MacLean Hall) Instructors: Sriram V. Pemmaraju (Main section) 101G MLH, sriram-pemmaraju@uiowa.edu, 319-353-2956 Office Hours: 1:00pm-2:30pm M, 11:30am-1:00pm Th Alberto M. Segre (Evening section) 14D MLH, alberto-segre@uiowa.edu, 319-335-1713 Office Hours: 2:30pm-4:00pm Th Computer Science I: Fundamentals is an introductory course on computer programming with an emphasis on problem solving techniques. During the semester, students will gain proficiency in skills that are fundamental to solving computational problems, namely: (i) reading and understanding descriptions of computational problems that may sometimes be stated incompletely or imprecisely, (ii) breaking down a computational problem into simpler subproblems, (iii) designing algorithms for computational problems, (iv) translating algorithms into pseudocode and then into programs, (v) testing and debugging prgrams, and (vi) understanding time efficiency and memory usage of programs. Students will learn the importance of iterating through the above sequence of steps to build correct, well-documented, efficient, and reusable programs. The key programming topics include variables, expressions, data types, control flow statements, functions, data structures, objects and classes. The course will use the Python programming language. Python can be used interactively and can be accessed on Linux/Unix, Mac, and Windows platforms. The course is the starting point for computer science major and minor curricula, and also useful to other majors as a rigorous introduction to programming and solving computational problems. This semester the course has two sections. The "main section" (CS:1210:0AAA, 22C:016:AAA) consists of three lectures per week, with an additional discussion section that meets once per week. The "evening section" section (CS:1210:0SCA, 22C:016:SCA) meets twice a week, with no separate discussion sections. Syllabus document, Information about TAs, Announcements, Quizzes, Projects, and Exams, Weekly Topics, Online Resources (From xkcd) Information about TAs The course has been assigned 3 TAs, who are graduate students in the Department of Computer Science. Information on their office hours and contact will appear here shortly. Below you can see names of the TAs and the discussion sections they will be leading. Renjitha Nair (renjitha-nair@uiowa.edu) will lead discussion sections A01 (Tuesday, 9:30-10:20, 215 PH) and A03 (Tuesday, 12:30-1:20, 66 SH). Jamie Moore (jamie-e-moore@uiowa.edu) will lead discussion sections A02 (Tuesday, 11:00-11:50, 113 MLH) and A06 (Tuesday, 3:30-4:20, 346 JH). Preethi Ambati (preethi-ambati@uiowa.edu) will lead discussion section A04 (Tuesday, 2:00-2:50, 219 JH). The office hours of the TAs are as follows: Renjitha Nair: 11:30am-12:30pm W, 2:30pm-4:00pm F Jamie Moore: 1:30pm-2:30pm W and 11:30am-1:30pm F. TAs will hold office hours in the Computer Science Lab, 301 MLH. Quizzes, Homeworks, Projects, and Exams Tags: ge8151 Problem Solving and Python Programming R2017 Regulation 2017 => Problem Solving Techniques => Algorithm => Building blocks of algorithms (statements, state, control flow, functions) => Notation => Flow chart => Pseudo code => programming language => Categories of programming languages => Algorithmic problem solving => Simple Strategies For Developing Algorithms => Examples algorithms: pseudo code, flow chart, programming language => Basic python programs => Python Algorithmic Problem Solving: short important questions and answers => Python Algorithmic Problem Solving: brief important questions and answers => Introduction to Python => Python interpreter => Modes of Python Interpreter => Values and Data Types => Variables - Python => Keywords - Python => Identifiers - Python => Statements and Expressions - Python => Input and Output - Python => Comments - Python => Docstring - Python => Lines and Indentation - Python => Quotation in Python => Tuple Assignment - Python => Operators and Types of Operators - Python => Operator Precedence - Python => Functions - Python => Types of function => Function definition(Sub program) - Python => Flow of Execution - Python => Function Prototypes => Parameters and Arguments - Python => Modules - Python => Python Programs - Data, Expressions, Statements => Python Data, Expressions, Statements: short important questions and answers => Python Data, Expressions, Statements: brief important questions and answers => Boolean Values => Conditionals - Python => Iteration/Control Statements - Python => Fruitful Function - Python => Strings - Python => List as array - Python => Example Python Programs: Control Flow, Functions => Python Control Flow, Functions: short important questions and answers => Python Control Flow, Functions: brief important questions and answers => Lists - Python => Tuple - Python => Dictionaries - Python => Difference between List, Tuples and dictionary => Advanced list processing - Python => Python Programs on matrix => Python Programs on Lists, Tuples, Dictionaries => Python Lists, Tuples, Dictionaries: short important questions and answers => Python Lists, Tuples, Dictionaries: brief important questions and answers => Programming Algorithm => Flowcharts => Guidelines For Drawing a Flowchart => Pseudocode => Example Programming Algorithm, Pseudocode, Flowchart => What is a program? => Python programming language => Values and types - Python => Expressions and statements - Python => Python Tuple => Python Strings => Comments - Python => Python Output Using print() function => Modules - Python => Python Import => Operators and operands => Type of operators in Python => Functions - Python => Flow of execution - Python => Parameters and arguments - Python => Python Basic Programs => Conditionals - Python => Recursion - Python => Iteration - Python => Fruitful Functions - Python => Strings - Python => Example Python Programs on Control Flow, Functions => Lists - Python => Tuples - Python => Python dictionary => Python Advanced list processing => Example Python Programs on Lists, Tuples, Dictionaries => Files - Python => Exception - Python => Modules - Python => Package - Python => Python Files, Modules, Packages: short important questions and answers => Example Python Programs on Files, Modules, Packages GE8151 Problem Solving and Python Programming - Anna University 2017 Regulation Syllabus - Download Pdf GE8151 Problem Solving and Python Programming - Question Bank - Download Pdf GE8151 Problem Solving and Python Programming - Question Paper 2017 - Download Pdf GE8151 Problem Solving and Python Programming - Question Paper Jan 2018 Download Anna University Notes Android App Problem Solving and Python Programming - Start Reading Online 265 - 1st Year Important Questions with Answers 265 - GE8151 Problem Solving and Python Programming - Notes 1.pdf 265 - GE8151 Problem Solving and Python Programming - Notes 2.pdf 265 - GE8151 Problem Solving and Python Programming - Question Bank 2.pdf 265 - GE8151 Problem Solving and Python Programming - Question Bank.pdf 265 - GE8151 Problem Solving and Python Programming - 2 marks with Answers.pdf 265 - GE8151 Problem Solving and Python Programming - Question Bank 3.pdf 265 - GE8151 Problem Solving and Python Programming - Dec Jan 2019 Question Papers.pdf 265 - GE8151 Problem Solving and Python Programming - Dec 2017 Jan 2018 Question Paper.pdf 24 UNIT V ENERGY SOURCES AND STORAGE DEVICES 9 Nuclear fission - controlled nuclear fission - nuclear fusion - differences between nuclear fission and fusion - nuclear chain reactions - nuclear energy - light water nuclear power plant - breeder reactor - solar energy conversion - solar cells - wind energy. Batteries, fuel cells and supercapacitors: Types of batteries – primary battery (dry cell) secondary battery (lead acid battery, lithium-ion-battery) fuel cells – H2-O2 fuel cell. TOTAL: 45 PERIODS OUTCOMES: The knowledge gained on engineering materials, fuels, energy sources and water treatment techniques will facilitate better understanding of engineering processes and applications for further learning. TEXT BOOKS: 1. S. S. Dara and S. S. Umare, —A Textbook of Engineering Chemistry‖, S. Chand & Company LTD, New Delhi, 2015 2. P. C. Jain and Monika Jain, —Engineering Chemistry‖ Dhanpat Rai Publishing Company (P) LTD, New Delhi, 2015 3. S. Vairam, P. Kalyani and Suba Ramesh, —Engineering Chemistry‖, Wiley India PVT, LTD, New Delhi, 2013. REFERENCES: 1. Friedrich Emich, —Engineering Chemistry‖, Scientific International PVT, LTD, New Delhi, 2014. 2. Prasanta Rath, —Engineering Chemistry‖, Cengage Learning India PVT, LTD, Delhi, 2015. 3. Shikha Agarwal, —Engineering Chemistry-Fundamentals and Applications‖, Cambridge University Press, Delhi, 2015. GE8151 PROBLEM SOLVING AND PYTHON PROGRAMMING L T P C 3 0 0 3 OBJECTIVES: To know the basics of algorithmic problem solving To read and write simple Python programs. To develop Python programs with conditionals and loops. To define Python functions and call them. To use Python data structures -- lists, tuples, dictionaries. To do input/output with files in Python. UNIT I ALGORITHMIC PROBLEM SOLVING 9 Algorithms, building blocks of algorithms (statements, state, control flow, functions), notation (pseudo code, flow chart, programming language), algorithmic problem solving, simple strategies for developing algorithms (iteration, recursion). Illustrative problems: find minimum in a list, insert a card in a list of sorted cards, guess an integer number in a range, Towers of Hanoi. UNIT II DATA, EXPRESSIONS, STATEMENTS 9 Python interpreter and interactive mode; values and types: int, float, boolean, string, and list; variables, expressions, statements, tuple assignment, precedence of operators, comments; modules and functions, function definition and use, flow of execution, parameters and arguments; Illustrative programs: exchange the values of two variables, circulate the values of n variables, distance between two points. Date: 12th Aug 2021 Python Handwritten Notes PDF In these “Python Handwritten Notes PDF”, we will study the basics of programming using Python. The course covers the topics essential for developing well documented modular programs using different instructions and built-in data structures available in Python. We have provided multiple complete Python Handwritten Notes PDF for any university student of BCA, MCA, B.Sc, B.Tech CSE, M.Tech branch to enhance more knowledge about the subject and to score better marks in the exam. Students can easily make use of all these Python Notes PDF Free Download by downloading them. Topics in our Python Handwritten Notes PDF The topics we will cover in these Python Handwritten Notes PDF will be taken from the following list: Introduction to Programming using Python: Structure of a Python Program, Functions, Interpreter shell, Indentation. Identifiers and keywords, Literals, Strings, Basic operators (Arithmetic operator, Relational operator, Logical or Boolean operator, Assignment Operator, Bit wise operator). Building blocks of Python: Standard libraries in Python, notion of class, object and method. Creating Python Programs: Input and Output Statements, Control statements:-branching, looping, Exit function, break, continue and pass, mutable and immutable structures. Testing and debugging a program. Built-in data structures: Strings, lists, Sets, Tuples and Dictionary and associated operations. Basic searching and sorting methods using iteration and recursion. Visualization using 2D and 3D graphics: Visualization using graphical objects like Point, Line, Histogram, Sine and Cosine Curve, 3D objects. Exception Handling and File Handling: Reading and writing text and structured files, Errors and Exceptions. Python Notes PDF Free Download Python Handwritten Notes PDF FREE Download Contributor: Abhishek Sharma College: KMV DU Python Handwritten Notes PDF FREE Download Source: nitc.ac.in Python Notes PDF Free Download Source: iitb.ac.in Python Lecture Notes PDF Download Source: biet.ac.in Python Notes PDF Free Download Source: gpcet.ac.in Python Notes PDF Free Download Source: iitkgp.ac.in Python Lecture Notes PDF Download Source: iitk.ac.in Python Lecture Notes PDF Download Source: mrcet.com Python Programming Notes PDF FREE Download Source: ocw.mit.edu Python Programming Notes PDF FREE Download Source: tutorialspoint.com Python Handwritten Notes PDF Download Source: guru99.com Python Books We have listed the best Python Books that can help in your Python exam preparation: Computer Science Notes In these “Analytical Clinical Biochemistry Notes PDF”, we will study the biochemically significant features of the proteins, enzymes, nucleic acids, and lipids, using suitable examples. This includes classification, properties, and biological importance of biomolecules. The course provides an overview of drug-receptor interaction and Structure-Activity Relation (SAR) studies. It will introduce the students to the concept of genetic code and concept of heredity. The key emphasis is placed on understanding the basic principles that govern the biological functions of biomolecules. URL: Author: Abhishek Sharma

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