



ANJUMAN KHAIRUL ISLAM'S

POONA COLLEGE OF ARTS, SCIENCE & COMMERCE

CAMP, PUNE-411001



Lecture Plan

SAMPLE DOCUMENTS

AKI'S
POONA COLLEGE OF ARTS, SCIENCE & COMMERCE,
CAMP. PUNE-411001
LECTURE/ TEACHING PLAN PLAN
FIRST TERM/SEMESTER
Academic year 2015-2016


Name of the Teacher : Dr. Sayyed Iliyas
 Department : Botany Class: F. Y. B.Sc Division:.....B.....
 Subject/ Paper : Industrial Botany

Month & Year	Teaching Days Available	Topic / Subject to be taught	Lectures Required
June 2015	03	Introduction to Industrial Botany 1.1 Concept of Industrial Botany. 1.2 Plant resources and industries: Food, fodder, fibers, medicines, timber, dyes, gum, tannins. (Two examples of each resource and the relevant industries with which they are associated).	02
		Floriculture Industry 2.1 Introduction to floriculture.	01
July 2015	12	Floriculture Industry 2.2 Important floricultural crops, open cultivation practices, harvesting and marketing of Tuberose. 2.3 Greenhouse technology: Concept, advantages and limitations. 2.4 Cultivation practices (greenhouse technology), harvesting and marketing of Rose and <i>Gerbera</i> .	08
		Plant Nursery Industry 3.1 Concept and types of nurseries: ornamental plant nursery, fruit plant nursery,	04
August 2015	12	Plant Nursery Industry medicinal plant nursery, vegetable plant nursery, orchid nursery, forest nursery (with reference to infrastructure required, outputs, commercial applications and profitability). 3.2 Propagation methods: Seed propagation, natural vegetative propagation and artificial vegetative propagation (Cutting: Stem, Layering: Air layering, Grafting: Stone grafting and Approach grafting, Budding: T budding).	04


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January 2016	18	<p>4.4 Production of SCP from algae (<i>Spirulina</i>) and fungi (Yeast)</p> <p>4.5 The economic implications of SCP</p> <p>4.6 Acceptability of SCP</p> <p>Environmental Biotechnology</p> <p>5.1 Introduction</p> <p>5.2 Phytoremediation- definition and concept</p> <p>5.3 Methods of phytoremediation- Rhizofiltration, phytoextraction, phytostabilization, phytovolatilization, phytodegradation,</p> <p>5.4 Environmental sustainability</p> <p>Basics of plant genetic engineering</p> <p>6.1 Introduction and structure of DNA</p> <p>6.2 Structure of gene in prokaryotes and eukaryotes- Promoter, coding region and terminator</p> <p>6.3 General method of gene isolation from the plants-DNA isolation, restriction enzymes, restriction digestion of DNA, DNA electrophoresis, southern hybridization, ligation of DNA Fragments</p> <p>6.4 Gene cloning- vectors used for gene cloning</p> <p>Methods of gene transfer in plants</p> <p>7.1 Direct gene transfer methods- Electroporation,</p>	<p>03</p> <p>06</p> <p>07</p> <p>02</p>
February 2016	16	<p>biolytic gene transfer, liposome mediated transfer.</p> <p>7.2 Vector mediated gene transfer- <i>Agrobacterium</i> mediated gene transfer in plants, Ti-plasmid: structure and functions, Ti plasmid based vectors, advantages.</p> <p>Application of plant genetic engineering in crop improvement.</p> <p>8.1 Introduction</p> <p>8.2 Insect pest resistance, abiotic stress tolerance, herbicide resistance, storage protein quality</p> <p>Nano-biotechnology</p> <p>9.1 Definition and concept</p> <p>9.2 Applications of nanotechnology in agriculture (fertilizers and pesticides).</p> <p>Question Bank</p>	<p>06</p> <p>04</p> <p>02</p> <p>04</p>


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POONA COLLEGE OF ARTS, SCIENCE AND COMMERCE,
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LECTURE PLAN – YEAR:2017-18

For the 1st Term: From: 15/06/2017 to 18/10/2017

Class and Division: F.Y.B.COM

Subject: Additional English

Name of the Teacher: **Dr. Shirin Shaikh**

Month	Periods Available	Topic/Sub-topic to be covered	Periods Required	Remarks
JULY	20	Unit-1: 1- The Social Cost of Economic Globalization Vandana Shiva Unit-2: 1- A Talk on Advertising Herman Wouk 2- The Fortune-Teller Joseph Furtado 2- The World is too much with us William Wordsworth	20	
AUG	10	Unit-3: 1- Rising Tides of Urban Chaos Colin Legum 2- Once Upon a Time Gabriel Okara Unit-4: 1- My Financial Career Stephen Leacock	10	
SEPT	14	Unit-4: 2- The Road Not Taken Robert Frost Unit-5: 1- Good Manners J.C Hill 2- Where the Mind is Without Fear Rabindranath Tagore	14	
OCT	04	Revision	04	
TOTAL	48		48	

Shirin

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M. S. ...

Sign of H.O.D

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FACULTY OF COMMERCE

LECTURE PLAN – YEAR:2017-18

For the 2nd Term: From: 13/11/2017 to 30/04/2018

Class and Division: F.Y.B.COM

Subject: Additional English

Name of the Teacher: **Dr. Shirin Shaikh**

Month	Periods Available	Topic/Sub-topic to be covered	Periods Required	Remarks
NOV	5	Unit-6: 1- What is wrong with Indian Films? Satyajit Ray	5	
DEC	16	2- When we Two Parted Lord Byron Unit-7: 1- I Have a dream Martin Luther King Jr 2- Gods Walt Whitman	16	
JAN	13	Unit-8: 1- Tune in to the Voices of the Deprived Aruna Roy 2- The Lotus Toru Dutt Unit-9: 1- The Chicago Speech Swami Vivekanand 2- Father Returning Home DilipChitre	13	
FEB	12	Unit-10: 1- Duty Mulk Raj Anand 2- All the World's a Stage William Shakespeare	12	
MARCH	05	Revision	02	
TOTAL	48		48	



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Department of Computer Science
Academic Year 2018-2019


Lecture Plan

Name of the Teacher : Ms. Shaheda Ansari
Class : T.Y.BSc(CS) – I (Sem – III)
Subject/Paper : TCS & CC – I (Paper – II)

Month & Year	Lecture Available	Topic / Sub-topic	Lectures Required
June	06	Introduction Symbol, Alphabet, String, Prefix & Suffix of Strings, Formal Language, Operations on Languages. Regular Expressions (RE) : Definition & Example Regular Expressions Identities.	03
		Finite Automata Deterministic finite Automaton – Definition, DFA as language recognizer, DFA as a pattern recognizer.	03
July	16	Nondeterministic finite automaton – Definition and Examples. NFA TO DFA : Method (From Book 4) NFA with ϵ - transitions Definition and Examples. NFA with ϵ -Transitions to DFA & Examples Finite automaton with output – Mealy and Moore machine, Definition and Examples. Minimization of DFA, Algorithm & Problem using Table Method.	09
		Regular Languages Regular language-Definition and Examples. Conversion of RE To FA-Examples. Pumping lemma for regular languages and applications. Closure properties of regular Languages (Union, Concatenation, Complement, Intersection and Kleene closure)	05
		Context Free Grammar and Languages Grammar - Definition and Examples.	02

August	16	<p>Derivation-Reduction - Definition and Examples. Chomsky Hierarchy. CFG : Definition & Examples. LMD, RMD, Parse Tree Ambiguous Grammar : Concept & Examples. Simplification of CFG : Removing Useless Symbols, Removing unit productions Removing ϵ productions & Nullable symbols Normal Forms : Chomsky Normal Form (CNF) Method & Problem Greibach Normal form (GNF) Method & Problem</p> <p>Regular Grammar : Definition. Left linear and Right Linear Grammar-Definition and Example. Equivalence of FA & Regular Grammar Construction of regular grammar equivalent to a given DFA Construction of a FA from the given right linear grammar Closure Properties of CFL's(Union, concatenation and Kleen closure) Method and examples</p>	10
		<p>Push Down Automaton Definition of PDA and examples Construction of PDA using empty stack and final State method : Examples using stack method Definition DPDA & NPDA, their correlation and Examples of NPDA CFG (in GNF) to PDA : Method and examples</p>	06
September	16	<p>Turing Machine The Turing Machine Model and Definition of TM Design of Turing Machines Problems on language recognizers. Language accepted by TM Types of Turing Machines(Multitrack TM,Two way TM, Multitape TM,Non-deterministic TM) Introduction to LBA (Basic Model) &CSG.(Without Problems) Computing TM, Enumerating TM, Universal TM Recursive Languages Recursive and Recursively enumerable Languages. Difference between recursive and recursively enumerable language. Turing Machine Limitations Decision Problem, Undecidable Problem, Halting Problem of TM</p>	10


Ms. Shaheda Ansari


HEAD
Dept. of Computer Science
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PUNE-411001.

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CAMP, PUNE-411001

Department of Computer Science
Academic Year 2019-2020
Lecture Plan

Name of the Teacher : Ms. Shaheda Ansari
Class : T.Y.BSc(CS) (Sem – IV)
Subject/Paper : Compiler Construction (Paper – II)

Month & Year	Lecture Available	Topic / Sub-topic	Lectures Required
December	17	1. Introduction 1.1 Definition of Compiler, Aspects of compilation. 1.2 The structure of Compiler. 1.3 Phases of Compiler – Lexical Analysis, Syntax Analysis, Semantic Analysis, Intermediate Code generation, code optimization, code generation. 1.4 Error Handling 1.5 Introduction to one pass & Multipass compilers, cross compiler, Bootstrapping.	[5]
		2. Lexical Analysis(Scanner) 2.1 Review of Finite automata as a lexical analyzer, 2.2 Applications of Regular Expressions and Finite Automata (lexical analyzer, searching using RE), Input buffering, Recognition of tokens 2.3 LEX: A Lexical analyzer generator (Simple Lex Program)	[5]
		3. Syntax Analysis(Parser) 3.1 Definition , Types of Parsers 3.2 Top-Down Parser – 3.2.1 Top-Down Parsing with Backtracking: Method & Problems 3.2.2 Drawbacks of Top-Down parsing with backtracking, 3.2.3 Elimination of Left Recursion(direct & indirect) 3.2.4 Need for Left Factoring & examples 3.3 Recursive Descent Parsing : Definition 3.3.1 Implementation of Recursive Descent Parser Using Recursive Procedures 3.4 Predictive [LL(1)]Parser(Definition, Model) 3.4.1 Implementation of Predictive Parser[LL(1)]	[7]
January	18	3.4.2 FIRST & FOLLOW 3.4.3 Construction of LL(1) Parsing Table 3.4.4 Parsing of a String using LL(1) Table 3.5 Bottom-Up Parsers 3.6 Operator Precedence Parser -Basic Concepts 3.6.1 Operator Precedence Relations form Associativity & Precedence 3.6.2 Operator Precedence Grammar 3.6.3 Algorithm for LEADING & TRAILING(with ex.) 3.6.4 Algorithm for Operator Precedence Parsing (with ex.)	[13]

		<p>3.6.5 Precedence Functions</p> <p>3.7 Shift Reduce Parser</p> <p>3.7.1 Reduction, Handle, Handle Pruning</p> <p>3.7.2 Stack Implementation of Shift Reduce Parser (with examples)</p> <p>3.8 LR Parser</p> <p>3.8.1 Model</p> <p>3.8.2 Types [SLR(1), Canonical LR, LALR] Method & examples.</p> <p>3.9 YACC (from Book 3) –program sections, simple YACC program for expression evaluation</p> <p>4. Syntax Directed Definition</p> <p>4.1 Syntax Directed Definitions(SDD)</p> <p>4.1.1 Inherited & Synthesized Attributes</p> <p>4.1.2 Evaluating an SDD at the nodes of a Parse Tree, Example</p> <p>4.2 Evaluation Orders for SDD's</p> <p>4.2.1 Dependency Graph</p> <p>4.2.2 Ordering the Evaluation of Attributes</p> <p>4.2.3 S-Attributed Definition</p> <p>4.2.4 L-Attributed Definition</p>	[5]
February	16	<p>4.3 Application of SDT</p> <p>4.3.1 Construction of syntax trees,</p> <p>4.3.2 The Structure of a Type</p> <p>4.4 Translation Schemes</p> <p>4.4.1 Definition, Postfix Translation Scheme</p> <p>5. Memory Allocation</p> <p>5.1 Memory allocation – static and dynamic memory allocation,</p> <p>5.2 Memory allocation in block structure languages, Array allocation and access</p> <p>6. Code Generation and Optimization</p> <p>6.1 Compilation of expression –</p> <p>6.1.1 Concepts of operand descriptors and register descriptors with example.</p> <p>6.1.2 Intermediate code for expressions – postfix notations,</p> <p>6.1.3 triples and quadruples, expression trees.</p> <p>6.2 Code Optimization – Optimizing transformations – compile time evaluation, elimination of common sub expressions, dead code elimination, frequency reduction, strength reduction</p> <p>6.3 Three address code</p> <p>6.3.1. DAG for Three address code</p> <p>6.3.2 The Value-number method for constructing DAG's.</p> <p>6.4 Definition of basic block, Basic blocks And flow graphs</p> <p>6.5 Directed acyclic graph (DAG) representation of basic block</p> <p>6.6 Issues in design of code generator</p>	[3] [2] [8]

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FACULTY OF COMMERCE

LECTURE PLAN – YEAR: 2019-20

For the 1st Term: From 22/06/2019 to 24/10/2019

Class and Division: T.Y.B.COM (Div: A)

Subject: Advanced Accounting

Name of the Teacher: Mr.Mahesh Atre

Month	Periods Available	Topic/Sub-topic to be covered	Periods Required	Remarks
JULY	12	Accounting Standards & Financial Reporting (Introduction to IFRS-Fair Value Accounting):- Brief Review of Indian Accounting Standard :- AS- 3, AS-7, AS-12, AS-15 AS-17 to AS-25 simple practical examples of application nature.	12	
AUG	12	Final Accounts of Banking Companies :- * Introduction of Banking Company – Problems on Final Accounts of Banking Company & Non Performing Assets (NPA)	12	
SEPT	12	Insurance Claim Accounts :- A. Claim for Loss of Stock - Introduction - B. Claim for Loss of Profit - Introduction - Indemnity under policy -	12	
OCT	12	Final Accounts of Co-operative Societies :- a. Credit Co-operative Societies :- b. Consumer Co-operative Societies :- Preparation of Final Accounts of Credit Co-operative Societies and Consumer Co-operative Societies.	12	
TOTAL	48		48	

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FACULTY OF COMMERCE

LECTURE PLAN – YEAR: 2019-2020

For the 2nd Term: From 19/11/2019 To 30/04/2020

Class and Division: T.Y.B.COM (Div: A)

Subject: Advanced Accounting

Name of the Teacher: Mr.Mahesh Atre

Month	Periods Available	Topic/Sub-topic to be covered	Periods Required	Remarks
NOV	5	Computerized accounting practices:- A. VAT & VAT Report B. Service Tax C. Central Value Added Tax D. Income Tax - Tax Deducted at Source (TDS)	5	
DEC	16	Branch Accounts :- Debtors System & Stock and Debtors System :- Types of Branches - Goods supplied at Cost & Invoice Price.	16	
JAN	13	Single Entry System :- Conversion of Single Entry into Double Entry :- Introduction - Preparation of Cash Book - Total Debtor Account - Total Creditor Account - Final Accounts.	13	
FEB	12	Analysis of Financial Statements :- Ratio Analysis :- Meaning - Objectives - Nature of Ratio analysis - Problems Gross Profit Ratio *Net Profit Ratio * Operating Ratio	12	
MARCH	02	Stock Turnover Ratio * Debtor Turnover Ratio * Current Ratio * Liquid Ratio * Debt to Equity Ratio.	02	
TOTAL	48		48	

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POONA COLLEGE
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(Affiliated to Savitribai Phule Pune University: ID No. PU/PN/ASC/023/1970)

FACULTY OF COMMERCE

LECTURE PLAN – YEAR: 2019-20

For the Ist Term: From 22/06/2019 To 24/10/2019

Class and Division: MCOM PART I

Subject: INCOME TAX

Name of the Teacher: Mr.MAHESH SHRIKANT ATRE

Month	Periods Available	Topic/Sub-topic to be covered	Periods Required	Remarks
July	12	Basic Concepts, Chargeability, Exempt income & Heads of Income	12	
Aug	12	Income from Salary, Income from House property, Income from Business and Capital Gains	12	
Sept	12	Carry forward of Losses & Deductions u/s 80 C to 80 U Gross Total Income and Rebates	12	
Oct.	12	Computation of Total Income of Individual and HUF	12	
Total	48		48	

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POONA COLLEGE OF ARTS, SCIENCE AND COMMERCE

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FACULTY OF COMMERCE

LECTURE PLAN – YEAR:2019-20

For the IInd Term: From 19/11/2019 To 30/04/2020

Class and Division: MCOM.PART 1

Subject: BUSINESS TAX

ASSESSMENT & PLANNING

Name of the Teacher:

Mr. MAHESH SHRIKANT ATRE

Month	Periods Available	Topic/Sub-topic to be covered	Periods Required	Remarks
Nov.	12	Tax Planning , Tax Avoidance , Tax Evasion and Tax Management. Tax planning with respect to various aspects.	12	
Dec.	12	Computation of Total Income of Charitable Trust, Coop. Society, and Company	12	
Jan	12	Miscellaneous Topics , Return of Income, Advance Tax, Interest , Income tax Authority etc.	12	
Feb.	12	GST , Basic Concept , Registration and returns of income. Customs Duty	12	
Total	48		48	

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