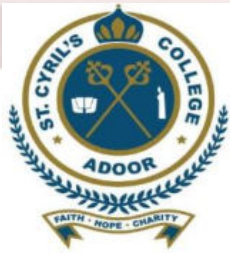


ST. CYRIL'S COLLEGE
ADOOR
ESTD. 1981



ST. CYRIL'S COLLEGE, ADOOR

1.2.2 & 1.2.3
Syllabus of Certificate Course

Department of Chemistry

St. Cyril's College, Adoor

Certificate Course

Good Laboratory Practice (30 Hours)

Course Outcome

Ensure the generation of high quality and reliable test data related to the safety of industrial chemical substance.

GCLP is a quality system of management controls that has been developed for research laboratories and similar bodies so as to ensure the regularity, homogeneity, dependability, reproducibility, quality, and integrity of clinical safety tests.

This Good Laboratory Practice (GLP) training course introduces learners to the general requirements for the testing and calibration of equipments that is generally using in laboratories.

Module 1: Laboratory organization and management structure (5 Hours)

Different types of management, importance of laboratory management, principles of laboratory management, organize a lab.

Module 2: Test methods and method validation (5 Hours)

Test method validation, examples of test methods, benefits of method validation, and different types of method validation, Method verification, and Method qualification.

Module 3: Sampling plan and sampling method (7 Hours)

Identify the parameters to be measured, the range of possible values, and the required resolution, design a sampling scheme that details how and when samples will be taken, select sample sizes, design data storage formats, assign roles and responsibilities.

Module 4: Evaluation of measurement uncertainty, test results and reporting (7 Hours)

Measurement bias, combined standard measurement uncertainty, empirical test method, Precision, Accuracy, Linearity, Stability, Repeatability, Reproducibility

Module 5: Calibration of analytical equipments (6 Hours)

Importance of calibration of analytical equipments

Eligibility Criteria: Plus Two (Science)

Course Completion: Based on Assignment, Multiple Choice test and Skill test.




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P G DEPARTMENT OF ENGLISH
ST CYRIL'S COLLEGE, ADOOR

CERTIFICATE COURSE IN ENGLISH LANGUAGE SKILLS 2022-23

Duration: 30 Hours (Feb 13 to Mar 24)

This 30-hour course is meticulously designed to provide the semester IV students of our college with a comprehensive and engaging learning experience in various facets of the English language. Our goal is to equip them with the essential skills needed for effective communication in both academic and real-world scenarios. In this certificate course, we will embark on a journey to explore the intricacies of English language skills, covering grammar fundamentals, vocabulary building, reading comprehension, writing proficiency, listening skills, and speaking abilities. Each module is crafted to enhance their language proficiency progressively, fostering a holistic understanding of the English language.

Programme Outcomes:

1. **Communication Proficiency:** Participants will demonstrate advanced proficiency in English, encompassing listening, speaking, reading, and writing skills, enabling effective communication in various personal and professional contexts.
2. **Language Analysis Skills:** Participants will develop the ability to critically analyse the English language, including its grammar, syntax, and vocabulary, fostering a deeper understanding of linguistic structures.
3. **Adaptability and Flexibility:** Participants will adapt their language skills to different communicative situations, demonstrating flexibility in language use and comprehension across diverse contexts.
4. **Continuous Learning and Self-Improvement:** The course will instil a sense of curiosity and a commitment to continuous learning, encouraging participants to seek opportunities for self-improvement in language skills beyond the program.
5. **Digital Literacy:** The course will integrate digital tools and resources, enhancing participants' digital literacy skills and their ability to navigate and engage with online language content.

Course Objectives:

1. Develop a strong foundation in English grammar and syntax.
2. Enhance vocabulary through systematic learning and practical application.
3. Improve reading comprehension skills for both academic and everyday purposes.
4. Hone writing skills for effective communication in various contexts.
5. Develop listening and speaking proficiency for better communication.

Course Outcomes:

By the end of the course, participants will be able to:

1. Demonstrate a solid understanding of English grammar rules and structures.

2. Expand their vocabulary and apply it appropriately in written and spoken communication.
3. Effectively comprehend and analyse various types of written texts.
4. Produce well-structured and coherent written pieces for different purposes.
5. Listen actively and respond appropriately in various communication settings.
6. Speak confidently, using correct pronunciation and intonation.

Course Outline

I. Introduction to English Language Skills (1 hour)

Course overview and expectations- Introduction to language learning strategies- Setting individual learning goals

II. Grammar Fundamentals (5 hours)

Parts of speech and sentence structure- Tenses and Verb conjugation- Subject-Verb agreement and sentence types- Articles and Determiners- Phrasal Verbs- Prepositional Phrases- Direct/ Indirect Speech- Active/Passive Voice

III. Vocabulary Building (4 hours)

Word roots, prefixes, and suffixes- Synonyms, Antonyms, and Idiomatic expressions- Contextual usage of words- Words often misused and confused- Common Errors- Basic vs Advanced Expressions- Strategies for expanding vocabulary

IV. Speaking Skills (7 hours)

English Sounds- R.P.- Vowels, Diphthongs and Consonants- Phonetic Transcription- Word Accent- Pronunciation and Intonation- Conversational skills and Public Speaking Tips- Giving Directions- Greetings, Introductions, Leave Taking- Expressing Personal Feelings (Agreement & Disagreement, Likes & Dislikes, Regret, Gratitude, Annoyance, Anger, Worry etc.)- Everyday Situations- Role-Playing and Speaking exercises

V. Listening Skills (3 hours)

Active listening strategies- Note-taking skills- Understanding varied accents- Listening Comprehension exercises

VI. Reading Comprehension (3 hours)

Techniques for effective reading- Main idea identification and summarization- Application of reading strategies

VII. Writing Skills (5 hours)

Letter Writing, Paragraph Writing, Report Writing and Essay writing- Editing and Proofreading techniques- Creative Writing exercises

VIII. Assessment and Feedback (2 hours)

Final Assessments (Writing and Speaking)- Peer and instructor feedback sessions

References

Burt, Angela. Quick Solutions to Common Errors in English. Macmillan India Limited, 2008.

- Carnegie, Dale. The Art of Public Speaking. Dover Publications, 2012.
- Ervin, Jane. Reading Comprehension in Varied Subject Matter. McGraw-Hill Education, 2002.
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- Jones, Daniel. English Pronouncing Dictionary 17th edition. New Delhi: CUP, 2009.4
- Kenneth, Anderson, Tony Lynch, Joan Mac Lean. Study Speaking. New Delhi: CUP, 2008.
- Leech, Geoffrey et al. English Grammar for Today: A New Introduction. 2nd Edition. Palgrave, 2008.
- Lewis, Norman. Word Power Made Easy. Penguin Books, 2014.
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- Marks Jonathan. English Pronunciation in Use. New Delhi: CUP, 2007.
- Moothathu, V. K. Concise English Grammar. Oxford University Press, 2012.
- Murphy, Raymond. English Grammar in Use. Cambridge University Press, 2019.
- Powell, Debra. Common Mistakes at Advanced and How to Avoid Them. CUP, 2008.
- Strunk, William Jr., and E.B. White. The Elements of Style. Pearson, 2017.



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PG & Research Department of Physics

St. Cyril's College, Adoor

Course Title: Python 3.4.3

Course Code: SCCPHY002

Course Objectives: Have • an understanding of the basic principles of Python • the skill to meaningfully develop a program , Know • basic Python Syntax • basic Python Functions • saving Plots, Be able to • create simple programs • work with datatypes • convert datatypes

Name of the Teacher: Dr Alen S.

Modules	Contact Hours
Module 1 Getting started with IPython, Using Plot Command Interactivity, Embellishing Plot, Saving Plots, Multiple Plots, Subplots	5
Module 2 Additional Features of Ipython, Loading Data from Files, Plotting Data, Other Types of Plots, Plotting of Charts	5
Module 3 Getting Started with Lists, Getting Started with For, Getting Started with Strings, Getting Started with Files, Parsing Data Statistics	5
Module 4 Getting Started with Arrays, Accessing Parts of Arrays, Image Manipulation using Arrays, Basic Matrix Operations, Advanced Matrix Operations	5
Module 5 Least Square Fit, Basic Data Types and Operators, Sequence Data Types, Input-Output, Conditional Statements, Loops	5
Module 6 Manipulating Lists, Manipulating Strings, Getting Started with Tuples, Dictionaries, Sets in Python	5
Module 7 Getting Started with Functions, Advanced Features of Functions, Using Python Modules, Writing Python Scripts, Testing and Debugging, Handling Errors and Exceptions	5

Student Learning Outcome:

- To know the concept of functions in Python
- Be capable of using basic functions like “if” and different types of loops
- Be able to convert datatypes.
- To know how to work with lists.
- Be able to use tuples and data dictionaries.
- Be able to sort lists.

Assessment/Examination Scheme:

Theory(%)	Practical(%)	Total(%)
50	50	100

References:

1. Álvaro Scrivano. (2019). Coding with Python. Minneapolis: Lerner Publications TM. Retrieved from <http://search.ebscohost.com/login.aspx?direct=true&site=eds-live&db=edsebk&AN=1947372>
2. Baka, B. (2017). Python Data Structures and Algorithms. Birmingham, U.K.: Packt Publishing. Retrieved from <http://search.ebscohost.com/login.aspx?direct=true&site=eds-live&db=edsebk&AN=1528144>
3. Hetland, M. L. (2017). Beginning Python : From Novice to Professional (Vol. Third edition). New York:Apress. Retrieved from <http://search.ebscohost.com/login.aspx?direct=true&site=eds-live&db=edsebk&AN=1174463>



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DEPARTMENT OF ECONOMICS

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cyrilianeconomics@gmail.com

CERTIFICATE COURSE ON BUDGET STUDIES

SYLLABUS

MODULE - I

Budget-evolution- Concept- Significance and Characteristics- Definition- Features

MODULE - II

Classification of budget- Revenue and capital accounts Budgetary deficits and its implications

MODULE - III

Budgetary process- Technique of budgeting – consolidated funds of India- contingency Funds of India-Taxation policy and budget.

MODULE - IV

Fiscal policy- Objectives-fiscal deficit- deficit financing-Political Economy of budget



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