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- To learn the principles underlying all programming languages: -So that it is easier to learn new languages
- To study different language paradigms: -Functional (Scheme), Imperative (C), Object-Oriented (C++, Java), Logic (Prolog) -So that you can select an appropriate language for a task

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Principles of Programming Languages - Rutgers University

B.Tech 2nd Year

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Languages Syllabus.

Unit - I. Syntax and
semantics: Evolution of
programming

languages, describing
syntax, context, free
grammars, attribute
grammars, describing

... Unit - II, Unit - III.

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Unit - IV. Unit - V.

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Programming languages are one of the most important and direct tools for the construction of a computer system: in a modern computer different languages are routinely used for different levels of abstraction.

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Programming language is important because it defines the relationship, semantics and grammar which allows the programmers to effectively communicate with the machines that they program.

Principles of Programming Languages - Master of Computer ...

The Elements of

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Functional Programming is a paradigm of programming that is most similar to evaluation of expressions in mathematics. In functional programming a program is viewed as an expression, which is evaluated by successive applications of functions to their arguments, and substitution of the result for the functional expression. Its origin is in the lambda calculus of Church.

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I. Introduction The Role
of Programming
Languages: Why Study
Programming
Languages, Towards
Higher-Level
languages,
Programming
paradigms,
Programming
environments
Language Description:
Syntactic structure,
language Translation

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Issues: Programming
language Syntax,
Stages in translation,
Formal translation
Models II. ... NCS-504
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This course is a study
of the deeper
principles behind
programming language
designs, and not of
particular

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languages. We focus on fundamental language features such as data structures, functions, objects, types and concurrency, and how they interact with each other to achieve the desired expressiveness. We study features through the implementation of interpreters and through operational semantics and type systems, mathematical

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approaches to program
meaning.

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Chapter 1 Basic Principles Of Programming Languages

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Subprograms and
Blocks: Fundamentals
of sub-programs,
Scope and lifetime of
the variable, general
Problem of Describing
Syntax and Semantics.

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read. There are 4
major principles that
make an language
Object Oriented. These

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are Encapsulation, Data Abstraction, Polymorphism and Inheritance. These are also called as ...

What are four basic principles of Object Oriented Programming?

Concepts of Programming Languages remain the same as those of the ten earlier editions. The principal goals are to introduce the

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fundamental
constructs of
contemporary
programming
languages and to
provide the reader with
the tools necessary for
the critical evaluation
of existing and future
pro-gramming
languages.

Concepts of Programming Languages, Eleventh Edition ...

The course is aimed at

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making the student familiar with the general concepts common to all programming languages so as to facilitate learning new languages. Language paradigms (i.e., logic, functional, procedural, object-oriented) are compared and implementation strategies are discussed.

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Principles of Programming Languages

Programming languages play a central role in computer science. All programs are written in a language, and it is obvious that some are better than others, at least for some purposes. The constant demand for new languages reflects the changing demands for constructing reliable

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Principles of Programming Languages Concentration ...

Programming paradigms, including procedural, functional, and object-oriented programming. Type systems, including dynamic and static typing disciplines. Binding, scope, data abstraction, and

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modularity.

CS 320 -- Principles of Programming Languages

Chapter 1 Principles of
Programming

Languages (* (sum f (+
a (/ dx 2.0)) (lambda
(x) (+ x dx)) b) dx))

The parameters, or
declared variables, are
f, a, b, dx. Their scope
is the entire lambda
form. Within the body
of the lambda form,
they bind all of their

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occurrences. But the occurrences of +, *, sum are free .

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Languages course is
about building
computational
processes. We need
computational
processes for
computing functions,

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and for performing computational tasks. The means for performing computational processes are programs. OBJECTIVES:

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...

There are four core principles in object-oriented programming. Without them

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programming language can't be called object-oriented. These principles are encapsulation, inheritance, polymorphism and abstraction. In this article, you will learn about these principles, their meaning, and how to use them.

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