



K.S.RANGASAMY COLLEGE OF TECHNOLOGY

(Autonomous)

Tiruchengode – 637 215, Namakkal (Dt.), Tamil Nadu.

**Department of Computer Science and Engineering
(Artificial Intelligence and Machine Learning)**

Course Name: Python Programming

Dictionary

Presentation by

Mrs K.Kiruthika

Trainer / Training and Placement

E-Mail ID: kkiruthika3108@gmail.com



Dictionary

- ✓ stores elements in **key/value** pairs
- ✓ ordered, mutable
- ✓ keys are unique identifiers : associated with each value
- ✓ **keys** and **values** can be of different data types
- ✓ Syntax
`{key1:value1 , key2:value2, .. }`
- ✓ Example
- ✓ Accessing elements **Syntax : dict_name[key]**
- ✓ Adding elements **Syntax : dict_name[key] = value**
- ✓ Deleting elements **Syntax : del dict_name[key]**
- ✓ Membership **in, not in**

Iterating Dictionary and Properties



- ✓ using for loop
keys
values
- ✓ using values()
- ✓ using items()

- ✓ same keys not allowed
- ✓ keys can only be a immutable object



Functions in Dictionary

Method	Syntax
len()	len(dict)
sorted()	sorted(dict,reverse)
clear()	clear()
pop()	pop(key)
popitem()	popitem()
get()	get(key)
update()	dict2.update(dict1)