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(Autonomous)

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

Course Name: Python Programming

Tuple

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Tuples

- ✓ very similar to list
- ✓ store data of different types
- ✓ ordered, immutable, allow duplicate values
- ✓ items separated with , and enclosed with ()
- ✓ Syntax
 - (,) # , is mandatory and () is optional
- ✓ Example
 - with same data type
 - with different data type
 - with nested Tuples



Operations on Tuples

- ✓ Concatenation +
- ✓ Repetition *
- ✓ Slicing | Indexing []
- ✓ Range Slicing [:]
- ✓ Iteration
- ✓ Membership



Functions in Tuples

Method	Syntax
len()	len(list)
min()	min(list)
max()	max(list)
count()	list.count(item)
index()	list.index(item,start,end)

Reassigning :

1. mutable item in the tuple can be reassigned
2. entire tuple can be reassigned



Tuples vs List

Tuples	List
Immutable	Mutable
Heterogeneous data type	Homogeneous data type
Write-protected	
Immutable items can be used as key in dictionary	