

Visual LISP course Curriculum	Hrs.
<ul style="list-style-type: none"> • The Visual LISP Development Environment <ul style="list-style-type: none"> • The Visual LISP IDE Toolbars • The VLISP IDE Pull-Down Menus • Basic Coding in Visual LISP <ul style="list-style-type: none"> • Comparing AutoLISP to Visual LISP/ActiveX • Exploring Object Properties and Methods • Selection Sets • Point Lists • Entity Properties • Using ActiveX with Visual LISP <ul style="list-style-type: none"> • Classes • Objects • Class Inheritance • Collections and Dictionaries • Properties, Methods and Events • Property Relevance • Using Methods • Data Types • Constants and Enumerations • Variants and Safearrays • Namespaces • Interfaces and Type Libraries • Debugging Code with Visual LISP <ul style="list-style-type: none"> • Breakpoints • Stepping • Animation • Watches • Inspection 	4
<ul style="list-style-type: none"> ▪ Practical 	4
<ul style="list-style-type: none"> • Working with Projects and Multiple Files • Working with Variants and Safearrays <ul style="list-style-type: none"> • Visual LISP Variant Functions <ul style="list-style-type: none"> • Variant Data Types • Visual LISP SafeArray Functions • Object Manipulation Functions • File and Directory Functions • Mapping and Iteration Functions 	4
<ul style="list-style-type: none"> ▪ Practical 	4
<ul style="list-style-type: none"> • Registry Functions • Making Visual LISP Applications 	4

<ul style="list-style-type: none"> • Why Make VLX Applications? • Building a Simple Application • XDATA and XRECORDS <ul style="list-style-type: none"> • Working with XDATA • Working with XRECORD Objects • The AutoCAD Application Object • AutoCAD Entities <ul style="list-style-type: none"> • All Objects – Common Properties • The CIRCLE entity • The LINE entity • The LWPOLYLINE entity • Documents <ul style="list-style-type: none"> • The Documents Collection 	
<ul style="list-style-type: none"> ▪ Practical 	4
<ul style="list-style-type: none"> • The Preferences Objects <ul style="list-style-type: none"> • The AcadPreferences Collection Object • The DatabasePreferences Object • Menus and Toolbars <ul style="list-style-type: none"> • The MenuBar Object <ul style="list-style-type: none"> • Getting MenuBar Items • Inserting PopMenus into the MenuBar collection • Removing PopMenus from the MenuBar collection • The MenuGroups Collection Object • The MenuGroup Object • The PopMenus Object • The PopMenu Object • The Toolbars Collection Object • The Toolbar Object <ul style="list-style-type: none"> • Creating a Toolbar • Interfacing with Other Applications <ul style="list-style-type: none"> • Microsoft Excel • Examples of Common Tasks <ul style="list-style-type: none"> • Example 1 – Dumping a List of Layer Properties • Example 2 – Set All Entities to “ByLayer” • Example 3 – Purge, Audit and Save all Opened Drawings • Example 4 – Zoom Extents and Save all Opened Drawings 	4
<ul style="list-style-type: none"> ▪ Practical 	4