



Jytra Engineering Services

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Day-1:									
- Introduction to NX									
- Gateway application									
- NX Part files									
Open file									
Close file									
Save file									
Save as file									
Templates									
- NX User Interface									
Customize Toolbars									
Display Toolbars									
Command finder									
Dialog boxes									
Dialog rail									
Dialog rail buttons									
Selection bar									
Cue bar									
Status bar									
Radial Menu									
View Triad									
Left hand rule									
Quick pick									
Graphics window view manipulation									
Startup File Creation									
Date:									
Trainee Name									
In Time									
Out Time									
Trainee Initial									
Faculty Initial									

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Day-2: (1.5hrs)									
Direct Sketching Overview									
Direct Sketch toolbar									
Sketch Task Environment									
Design intent and modeling strategy									
Sketch overview									
Sketch types (On Plane and On Path)									
Name sketches in sketcher									
Internal & External sketches									
- Sketch Curves									
Profile									
Line									
Arc									
Circle									
Derived Curves									
Rectangle									
Ellipse									
Point									
Studio Spline									
- Inferred Dimensions									
Horizontal									
Vertical									
Angular									
Parallel									
Perpendicular									
Radius									
Angular									
Perimeter									
Date									
Trainee Name									
In Time									
Out Time									
Trainee Initial									
Faculty Initial									



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Day-3:									
Inferred Constraints									
• Coincident									
• Collinear									
• Concentric									
• Horizontal									
• Vertical									
• Midpoint									
• Parallel									
• Perpendicular									
• Equal Radius									
• Equal Length									
• Constant Length									
• Constant angle									
Sketch curve options									
• Mirror curve									
• Offset curve									
• Quick trim									
• Quick extended									
• Make corner									
• Fillet									
• Chamfer									
• Pattern Curve									
Create inferred constraints									
Auto Constraints									
Show/Remove Constraints									
Show all Constraints									
Convert to/from reference									
Alternate solution									
Animate Dimension									
Continuous Auto Dimension									
Date									
Trainee Name									
In Time									
Out Time									
Trainee Initial									
Faculty Initial									



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Day-4:									
Coordinate systems									
• Overview of coordinate systems									
• Absolute coordinate systems									
• Work coordinate systems									
Difference between Absolute coordinate & Work coordinate systems									
WCS options									
• Origin									
• Dynamics									
• Rotate									
• Orient									
• Change XC Direction									
• Change YC Direction									
• Display									
• Save									
Date									
Trainee Name									
In Time									
Out Time									
Trainee Initial									
Faculty Initial									

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Day-5:									
Datum Plane overview									
Datum Plane types									
• At Angle									
• At Distance									
• Bisector									
• Bisector									
• Through three points									
• Along XC-YC									
• Along YC-ZC									
• Along ZC-XC									
Applications for datum planes									
Datum Axis overview									
Datum Axis types									
• Intersection									
• Curve/face axis									
• Point and Direction									
• Two points									
• Along XC									
• Along YC									
• Along ZC									
Applications for datum axis									
DatumCSYS overview									
Date									
Trainee Name									
In Time									
Out Time									
Trainee Initial									
Faculty Initial									

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Day-6:									
Swept features									
• Extrude feature									
- Direction Overview									
- Direction Types									
- Boolean options									
• Revolve feature									
- Direction									
- Point									
- Boolean options									
• Sweep along guide									
- Section									
- Guide									
• Combine bodies									
- Unite									
- Subtract									
- Intersect									
Date									
Trainee Name									
In Time									
Out Time									
Trainee Initial									
Faculty Initial									



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Day-7:									
Basic Curve Overview									
• Line									
• Arc									
• Circle									
• Fillet									
- 2 Curve Fillet									
- 3 Curve Fillet									
Chamfer									
Helix									
Text									
Ellipse									
Rectangle									
Polygon									
Date									
Trainee Name									
In Time									
Out Time									
Trainee Initial									
Faculty Initial									



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Day-8:									
Swept feature options									
• Selection intent (Curve Rule)									
1. Single Curve									
2. Connected Curve									
3. Feature Curves									
4. Tangent Curves									
5. Infer Curves									
6. Body Curves									
7. Face Edges									
8. Region Boundaries									
• Extrude start and end limits									
• Extrude Feature with offset									
1. Single Side offset									
2. Multiple									
• Extrude Feature with Draft									
• Settings									
• Revolve start and end limits									
• Revolve Feature with offset									
1. Single Side offset									
2. Multiple									
• Settings									
• Sweep Along Guide Feature with offset									
• Settings									
Date									
Trainee Name									
In Time									
Out Time									
Trainee Initial									
Faculty Initial									



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Day-9:									
Part Navigator									
• Main Panel									
• Dependencies Panel									
• Details Panel									
• Preview Panel									
• Timestamp order									
Part Navigator shortcut menu									
• Display Dimensions									
• Show parents									
• Hide parents									
• Make Current Feature									
• Edit Parameters									
• Information									
• Properties									
• Object Dependency Browser									
• Rename etc.....									
Feature Replay overview									
Reorder overview									
Feature and object information									
Measure Distance									
Measure Bodies									
Assign a material to a solid body									
Delayed updates									
Date									
Trainee Name									
In Time									
Out Time									
Trainee Initial									
Faculty Initial									



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Day-10:									
Trim Body									
Hole Feature overview									
Hole Dialog box									
Hole types									
• General hole									
1. Simple									
2. Counter bore									
3. Counter sunk									
4. Tapered									
Position									
Direction									
Form & Dimensions									
Boolean									
Settings									
• Threaded Hole									
Position									
Direction									
Form & Dimensions									
Thread Dimensions									
Dimensions									
Start Chamfer									
End Chamfer									
Boolean									
Settings									
Date									
Trainee Name									
In Time									
Out Time									
Trainee Initial									
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Day-11:									
Boss									
Pocket									
• Cylindrical									
• Rectangular									
Pad									
• Rectangular									
Slot									
• Rectangular									
• Ball-End									
• U-slot									
• T-slot									
• Dove tail									
Groove									
• Rectangular									
• Ball-End									
• U-groove									
Thread									
• Symbolic									
• Detailed									
Date									
Trainee Name									
In Time									
Out Time									
Trainee Initial									
Faculty Initial									



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Day-12:									
Expressions									
• Expressions overview									
• Expression dialog box									
Listed Expressions									
- Named									
- Filter by Name									
- Filter by Value									
- Filter by Formula									
- Filter by Type									
- Unused Expressions									
- Object Parameters									
- Measurements									
- All									
• Creating expressions									
• Types of expression									
• Edit an expression									
Layers									
• Layer Category									
• Move to layer									
• Copy to layer									
• Layer Settings									
Date									
Trainee Name									
In Time									
Out Time									
Trainee Initial									
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Day-14:									
Face Operations									
• Shell feature									
- Alternate thickness									
- Settings									
• Offset Face									
• Offset region									
• Draft feature									
- Draw Direction									
- Draw Direction									
- Stationary Plane									
- Faces to Draft									
- List									
- Settings									
Edge Operations									
• Edge Blend									
• Variable radius Points									
- Settings									
• Chamfer									
- Symmetric									
- Asymmetric									
- Offset and Angle									
Date									
Trainee Name									
In Time									
Out Time									
Trainee Initial									
Faculty Initial									



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Day-15:									
Mesh surface									
• Through Curves									
- Sections									
- Continuity									
- Alignment									
- Output Surface Options									
- Settings									
• Ruled									
- Sections									
- Alignment									
- Settings									
• Through curve mesh									
- Primary Curves									
- Cross Curves									
- Continuity									
- Output Surface Options									
- Settings									
Free form modeling									
• Studio Spline									
• Sketch on path									
• Variational sweep									
Date									
Trainee Name									
In Time									
Out Time									
Trainee Initial									
Faculty Initial									



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Day-16: (1.5hrs)									
Synchronous Modeling									
• Move Face									
- Transform									
- Settings									
• Pull Face									
- Transform									
• Replace Face									
- Replacement Face									
- Settings									
• Resize Blend									
- Radius									
• Resize Face									
- Size									
• Delete Face									
- Face									
Part Families									
- Add Column									
- Remove Column									
Date									
Trainee Name									
In Time									
Out Time									
Trainee Initial									
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Day-18:									
Assemblies									
• Assemblies overview									
• Assembly Load Options									
1. Part Versions									
2. Scope group									
3. Reference sets									
4. Save Load Options									
• Select Components (Using Quick Pick)									
• Assembly Navigator overview									
• Make work part									
• Make Displayed Part									
• Assembly Navigator display commands									
• Part revisions and saving assemblies									
• Component Properties overview									
• Assembly Navigator Properties overview									
• Simple Clearance Check									
Date									
Trainee Name									
In Time									
Out Time									
Trainee Initial									
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Day-19:									
General assembly concepts									
• Top-down modeling									
• Bottom-up modeling									
Add Component overview									
Add Component options									
Move Component overview									
Assembly constraints overview									
Assembly constraints types									
• Angle									
• Bond									
• Center									
• Concentric									
• Distance									
• Fit									
• Fix									
• Parallel									
• Perpendicular									
• Touch Align									
Date									
Trainee Name									
In Time									
Out Time									
Trainee Initial									
Faculty Initial									



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Day-20:									
Reference sets									
• Reference sets overview									
• Default reference sets									
- Lightweight									
- Model									
- Empty									
- Entire Part									
• User defined reference sets									
• Edit reference set									
• Reference set information									
• Replace reference set overview									
• Add New Reference Set									
• Settings									
Date									
Trainee Name									
In Time									
Out Time									
Trainee Initial									
Faculty Initial									



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Day-21:									
Top-down assembly modeling									
• Create new component overview									
- Model Name									
- Reference Set									
- Layer option									
- Component Origin									
• Verify the creation of a new component									
• Design in context									
• Sketching in context									
Creating Multiple Components									
Date									
Trainee Name									
In Time									
Out Time									
Trainee Initial									
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Day-24:									
Component Arrays									
• Create Component overview									
1. Linear Array									
2. Rectangular Array									
3.From Instance Feature									
• Edit Component Array									
- Edit array Parameters									
- Delete array									
- Delete all									
Mirror component									
Replace components									
Cloning									
- Cloning an assembly									
- Cloning a part									
Exploded views									
- New Explosion									
- Edit Explosion									
- Auto-Explode									
- Un Explode Component									
- Delete Explosion									
Date									
Trainee Name									
In Time									
Out Time									
Trainee Initial									
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Day-26:									
• Half Section view									
• Revolved section view									
• Section view									
• Detail view									
• Breakout section									
• Broken view									
• Inferred dimension									
- Horizontal Dimension									
- Vertical Dimension									
- Perpendicular Dimension									
- Parallel Dimension									
- Chamfer Dimension									
- Angular Dimension									
- Cylindrical Dimension									
- Hole Dimension									
- Radius Dimension									
- Diameter Dimension									
• Feature Parameters									
- Select Views									
- Select Features									
Date									
Trainee Name									
In Time									
Out Time									
Trainee Initial									
Faculty Initial									



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Day-27:									
• Annotation Settings									
- Dimensions									
- Line/Arrow									
- Lettering									
- Symbols									
- Units									
- Fill/Hatch									
- Sections									
- Partslist									
• View Preferences Settings									
- General									
- Hidden Lines									
- Visible lines									
- Shading									
- Smooth Edges									
• View Label Settings									
- Other									
- Detail									
- Section									
• Section line Settings									
Date									
Trainee Name									
In Time									
Out Time									
Trainee Initial									
Faculty Initial									



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Day-28:									
• Note									
- Origin									
- Leader									
- Symbols									
- Drafting Symbols									
- GD&T Symbols									
- Relation Ships									
- Userdefined									
• Feature Control Frame									
• Datum feature symbol									
• Datum Target									
• Identification symbol									
• Center mark									
- Center mark									
- 2D Centerline									
- 3D Centerline									
- Circular Centerline									
- Symmetric centerline									
- Automatic Centerline									
Date									
Trainee Name									
In Time									
Out Time									
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