

## Course for KNIME Analytics Platform November 12, 2018 – Zurich

<b>Breakfast / Introductions</b>	<b>9:00 – 10:00</b>	
Introduction to KNIME	10:00 – 10:30	Introduction Installing KNIME The KNIME Workbench Preview of the “Next Best Offer” Workflow
Importing Data	10:15 – 11:00	Data Source Nodes Reading Files Connecting to a Database
Data Manipulation & Data Aggregation	11:00 – 12:00	Data Manipulation Nodes Aggregation (GroupBy) Data Integration, Join
<b>Lunch</b>	<b>12:00 – 13:00</b>	
Data Visualization	13:00 – 13:45	Visualization Nodes Interactivity Interactive View Nodes Graphics from R
Data Mining	13:45 – 15:00	Process Overview Learner/Predictor Motif Creating Test and Training Sets An Example: Decision Trees Model Evaluation: Scoring and RoC
<b>Break</b>	<b>15:00 – 15:30</b>	
Integrating External Tools	15:30 – 16:30	Scripting (Java, Python, R) Web Services JSONPath/XPath Big Data (Hive, HDFS, Spark)
Data Export & Reporting	16:30 – 17:00	File Writer Nodes Database Write/Update Reporting
Summary & Catch-up	17:00 – 18:00	Summary of Materials Covered Q&A Session

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<b>Breakfast / Introductions</b>	<b>09:00 – 10:00</b>	
Flow Variables	10:00 – 11:30	Local Variables (and Credentials) Variables to Override Node Settings Using QuickForms & Wrapped Meta Nodes
Time Series Analysis I	11:30 – 12:00	The Date/Time Type
<b>Lunch</b>	<b>12:00 – 13:00</b>	
Time Series Analysis II	13:00 – 13:30	Time Series Manipulation
Workflow Control	13:30 – 15:00	Loops Switches Try Catch
<b>Break</b>	<b>15:00 – 15:30</b>	
Advanced Data Mining	15:30 – 16:30	Other Modeling Tools Parameter Optimization Cross Validation H2O Integrations
Database	16:30 – 17:15	Basic Setup Connectors Reading and Writing Visual Query Generation
Open Session	17:15 – 18:00	Example Workflows: <ul style="list-style-type: none"> <li>• Cheminformatics</li> <li>• RESTful Web Services</li> <li>• Geospatial Analysis</li> <li>• Web-enabled Workflows</li> <li>• Text &amp; Network Analysis</li> </ul> Independent Exploration of Application Workflows Final Q&A
	<b>18:00 (close)</b>	