# Employment Oriented Summer Course 2017

**Offered By NIST Technology Consulting Services**
National Institute of Science and Technology
Palur Hills, Berhampur - 761008, web: www.nist.edu

## Course Goals

- **Introduction to the latest VLSI Design Technologies and software tools:**
  - Cadence VLSI
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# Employment Oriented Summer Course 2017

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**NATIONAL INSTITUTE OF SCIENCE & TECHNOLOGY**

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**For 1ST Year Students**

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## Course Goals

To prepare you for the first paper [Exam # 120-051] of OCA (Oracle Certified Associate) certification examination. As this course covers the complete set of SQL Queries, this will also help in designing back-ends for database related projects.

### Course Contents
- Writing Basic SQL Select Statements
- Restricting and Sorting Data
- Single Row Functions
- Displaying Data from Multiple Tables with Joins.
- Aggregating Data Using Group Functions
- Sub queries.
- Producing readable Output with SQL*Plus.
- Manipulating Data using INSERT, UPDATE, DELETE and MERGE statements.
- Creating and Managing Tables.
- Including Comments
- Creating Views
- Creating Other Database Objects like Sequence, Index, and synonyms.
- Controlling User Access.

### Prerequisites
You must have knowledge of any one high level programming language like C, Pascal, or Fortran and have some exposure to database fundamentals.

### Course Fees :
- For Students: Rs. 8,000/-
- For Industry sponsored candidates: Rs. 10,000/-

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## Course Goals

**STAAD. Pro**

Flexible design and Analysis for steel, concrete, timber. Efficiencies are gained through the ability to maintain and streamline current workflows with fluent data collaboration and research work.

### Course Contents
- Introduction to STRUCTURAL ENGINEERING & STAAD Pro.
- Model generation, Assigning supports, Loads & properties
- Structure Analysis: Simply Supported Beam, Analysis of Framed Structure, Applying Floor Loads
- Seismic, Wind & Dynamic Analysis
- Column & Beam Design
- Reinforced Concrete Design
- Slab Design
- Water Tank Design (Circular & rectangular)
- Design Moving Loads
- Staincse Analysis

### Prerequisites
For all BE, B.Tech, MCA, M.Tech and MBA students

### Course Fees :
- For Students: Rs. 5,000/-
- For Industry sponsored candidates: Rs. 7,000/-

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## Course Goals

**Spoken English Language course**

To prepare you to speak English fluently by training you to produce the sounds of the language in the right way. After the end of this course, the students will master the basic elements of English pronunciation and improve their production of the spoken language. Practice material will be given and particular difficulties of the speakers will be noted and remedial exercises provided. The training will be provided through H-Class SW.

### Course Contents
- The Basic sounds and sound groups of English (vowels & consonants)
- Problems in pronunciation
- Stress & Rhythm units
- Intonation
- Listening & Speaking Practice
- Introduction to GRE and TOEFL
- Vocabulary Practice
- Group Discussions

### Prerequisites
For all BE, B.Tech, MCA, M.Tech and MBA students

### Course Fees :
- For Students: Rs. 5,000/-
- For Industry sponsored candidates: Rs. 7,000/-

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## Course Goals

**JAPANESE LANGUAGE**

The aim is to acquaint students with basic Japanese. The focus areas are as follows:
- **Japanese writing system**
- **Basics of Japanese grammatical structures**
- **Vocabulary appropriate for beginning learners**
- **JLPT level N5 preparation**

At the end of the course, one will be able to read and understand typical expressions and sentences written in Hiragana, Katakana and basic kanji and will be able to listen and comprehend conversations about topics regularly encountered in daily life. One can participate in simple conversation.

### Course Contents
- Hiragana letters
- Katakana letters
- Kanji letters (Around 150 basic kanji letters)
- Vocabulary (Around 1200 Words)
- Basics of Japanese grammar

### Prerequisites
Some prior exposure to English grammar.

### Course Fees :
- For Students: Rs. 5,000/-
- For Industry sponsored candidates: Rs. 7,000/-

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## Course Goals

**AutoCAD**

Course goals: Creates awareness of various machine design & Structural design. The course prepares you to understand the fundamental drawings on industry shop floor & field work. Civil building plans, plotting; contouring will also be dealt in great detail. Blue print reading will also be introduced for both civil & Mechanical.

### Course Contents
- Basic 2D drawings: Creating, building and modifying with introduction to relevant tools*
- Basic 3D drawing: Building basic and complex individual machine components*
- Sectional views*
- For Mechanical: Fasteners, Bearings, Gears, Keys, Cotter joints and Pins, Shaft couplings, Belt driven pulleys, IC engine parts, Machine tools, valves and boiler mountings.
- For Civil: Creating Line plane, Building planning, Culvert, Plotting, contouring.
- Assembly drawing & Blueprint reading*

(* common for civil & Mechanical)

### Course Fees :
- For Students: Rs. 8,000/-
- For Industry sponsored candidates: Rs. 10,000/-