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| **EXPERIMENT REPORT** *of* *Digital Signal Processing* | | | |
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| ***TYPICAL DIGITAL SIGNALS: GENERATION AND ITS FREQUENCY ANALYSIS BY USING MATLAB*** | | | |
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| SUBMITTED BY | | | |
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| *November, 2016* | | | |

# Generation of Typical Signals

## Unit Sampling Sequence

### Signal Expression

### MATLAB Codes (*with Notes*)

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### Simulation Results and Illustrations

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### Simple analysis and Summary

# Frequency Analysis

## Discrete Time Fourier Transform (DTFT)

### Concept of DTFT

### Signal Expression in Frequency Domain

### MATLAB Codes (*with Notes*)

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### Simulation Results and Illustration

## Discrete Fourier Transform (DFT)

### Concept of DFT

### MATLAB Codes (*with Notes and Different Signal Length*)

#### Unit Sampling Sequence

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#### Unit Step Sequence

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#### Real Exponential Sequence

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#### Complex Exponential Sequence

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#### Sinusoidal Sequence

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### Simulation Results and Illustrations (*with Different Signal Length*)

## Summary and Discussion

# Experience and Overview