

Online Library  
Digital Signal  
Processing  
Experiment Lab  
Manual

# Digital Signal Processing Experiment Lab Manual

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## Digital Signal

### Processing

#### Experiment Lab

#### Manual

to be successful. As understood, triumph does not recommend that you have wonderful points.

Comprehending as well as promise even more than new will have the funds for each success. next to, the pronouncement as without difficulty as perception of this digital signal processing experiment lab manual can be

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## Digital Signal

### Processing

taken as skillfully as  
picked to act.

## Experiment Lab Manual

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## **Digital Signal Processing Experiment Lab**

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## Digital Signal

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Processing Lab Manual

10 Prepared By:

Mohd.Abdul Muqet

Experiment - 1 Aim : -

To generate the

waveform for the

following signals using

MATLAB. 1) Sine Wave

signal 2) Cosine Wave

signal 3) Saw Tooth

Wave signal 4) Square

Wave signal 5)

Triangular Wave signal

6) Trapezoidal Wave

signal

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**DIGITAL SIGNAL**

**PROCESSING LAB**

EC6511-DIGITAL

SIGNAL PROCESSING

LABORATORY LIST OF

EXPERIMENTS: MATLAB

/ EQUIVALENT

SOFTWARE PACKAGE

1. Generation of  
sequences (functional  
& random) &

correlation 2. Linear  
and Circular

Convolutions 3.

Spectrum Analysis

using DFT 4. FIR filter

design 5. IIR filter

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design 6. Multirate

Filters 7. Equalization

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**EC6511 DIGITAL  
SIGNAL PROCESSING  
LAB -**

**vvitengineering**

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(1).docx from ECE 101  
at National Institute of  
Technology, Silchar.

DIGITAL SIGNAL  
PROCESSING LAB  
EXPERIMENT NO. 3

NAME: SRIPALI

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**DIGITAL SIGNAL  
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(1).docx ...**

This collection contains the solutions of "Introduction to Digital Signal Processing: A Computer Laboratory Textbook" by M.J.T. Smith and R.M. Mersereau. All laboratory exercises of the following chapters are graphically solved in MatLab: Chapter 2 -

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Discrete-Time Signals  
and Systems Chapter 3

- The Frequency  
Domain Chapter 4 -  
Sampling

**Digital Signal  
Processing Lab  
Exercises - File  
Exchange ...**

These digital signal processing lab experiments are basically for students at under graduation level. The experiments were divided into two



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sections. Section I  
covering signal  
processing using...

## **Materials - Digital Signal Processing Lab**

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PROCESSING LAB  
SYLLABUS

Recommended  
Systems/Software  
Requirements: Intel  
based desktop PC with  
minimum of 166 MHZ  
or faster processor with  
at least 4GB RAM and

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500GB free disk space.

MATLAB and hardware  
related to experiments.

C6713 DSK Code

Composer Studio S.No.

List of Experiments

Page No. Date Remarks

## **DIGITAL SIGNAL PROCESSING LABORATORY**

The outcome of digital  
communications and  
digital media required  
to provide digital data  
applies Digital Signal  
Processing. To

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measure, filter and compress is the objective of DSP Projects using matlab. DSP Projects using Matlab are been applied to Digital media and communications for Signal Processing. Sub fields of signal processing are

**DSP Projects using  
Matlab | Digital  
Signal Processing  
Project**

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## Digital Signal

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DIGITAL SIGNAL  
PROCESSING LAB The  
programs shall be  
implemented in  
software (Using  
MATLAB / Lab view / C  
programming/  
Equivalent) and  
hardware (Using TI /  
Analog devices /  
Motorola / Equivalent  
DSP processors). 1.  
Generation of  
Sinusoidal waveform /  
signal based on  
recursive difference  
equations, 2. To find

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DFT / IDFT of given DT  
signal. 3.

**Geethanjali College  
of Engineering and  
Technology**

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PROCESSING

LABORATORY MANUAL

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**MANUAL | Durga ...**

Digital Signal

Processing (DSP) is at  
the heart of almost all

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## Digital Signal

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modern technology:  
digital  
communications,  
audio/image/video  
compression, 3D  
sensing for human  
machine interfaces and  
environment  
perception, multi-touch  
screens, sensing for  
health, fitness,  
biometrics, and  
security, and the list  
goes on and on.

**EE 264 Digital Signal  
Processing - EE264 |**

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**Stanford University**

Digital Signal

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Processing: Laboratory

Experiments Using C

and the TMS320C31

DSK offers users a

practical--and economi

calm--approach to

understanding DSP

principles, designs, and

applications. Demonstrating

Texas Instruments'

(TI) state-of-the-art,

low-priced DSP Starter

Kit (DSK), this book

clearly illustrates and

integrates practical

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aspects of real-time  
DSP implementation  
techniques  
and complex DSP  
concepts into lab  
exercises and  
experiments.

**Digital Signal  
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Laboratory  
Experiments Using C**

...

Digital Signal  
Processing Lab Design  
and microcontroller  
based implementation



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of real-time digital

signal processing

systems. Experiments

include sampling,

digital filtering, and the

FFT.

**Digital Signal**

**Processing Lab | The**

**University of**

**Vermont**

The Digital Signal

Processing Lab

comprises of test and

measurement

equipment for doing

advanced research and

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development work in digital signal processing field. The Lab is equipped with complete set of Hardware and Software to perform DSP experiments. Fig: Lab Facilities in the DSP Lab HHaarrddwwaarree Over 40 PC's

## **DIGITAL SIGNAL PROCESSING LAB - UET Lahore**

dt (1) Digital Signal  
Labs' charter is the

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specification, design,  
and implementation of  
signal processing and  
communication

systems. This runs the  
gamut from up-front,  
“blue-sky” explorations  
to requirements  
analysis and  
specification to  
implementation,  
testing, and  
integration.

### **Digital Signal Labs**

To show the different  
steps of signal

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processing in a Digital Signal Processor. To demonstrate the use of the Digital Oscilloscope.

Equipment Required:

Theoretical Overview:

Detector and amplifier functions. The detection and analysis of charged particles, gamma rays, and x-rays is very much the same.

## **Signal Processing with Digital Signal**

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**with Electronics**

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SIGNAL PROCESSING C-

Language Examples

and Laboratory

Experiments for the

IBM ® PC

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**Language ...**

DEPARTMENT OF

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ENGINEERING

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EC8562 - DIGITAL  
SIGNAL PROCESSING  
LABORATORY

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Dr. J. Mohan, Associate

Professor Dr. C. Amali,

A.P (Sel.G) Mr. A.

Anbarasan, A.P (O.G)

**EC8562- Digital  
Signal Processing  
Lab Manual.pdf -  
SRM**

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The DSP Virtual Laboratory is an initiative of Ministry of Human Resource Development (MHRD), Govt. of India, under the National Mission on Education through Information and Communication Technology (NME-ICT). Laboratory courses on hands-on experiments are an integral part of engineering education. The content of this website aims to

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provide a virtual laboratory platform for undergraduate Engineering students studying the course of Digital Signal Processing.

#### **Virtual LAB- Feedback Form - VLabs IITKgp**

In this lab, you will be introduced to Digital Signal Processing (DSP) and Fourier analysis through the comparison of



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experimental,  
theoretical and  
simulation techniques.

As we have discussed  
in lecture there are  
three main sources of  
error encountered  
when digitizing signals:  
clipping, quantization,  
and aliasing.

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00998ecf8427e.](https://doi.org/10.1002/978111998427e)

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