

# Application Form

## STC-DSISP

(Fill in capital letters. Tick appropriate boxes)

<b>Name</b>			
<b>Category</b>	Student <input type="checkbox"/>	Faculty <input type="checkbox"/>	Professional <input type="checkbox"/>
<b>Sex</b>	Male <input type="checkbox"/>	Female <input type="checkbox"/>	
<b>Course opted for</b>	Course-A <input type="checkbox"/>	Course-B <input type="checkbox"/>	Both A&B <input type="checkbox"/>
<b>Address</b>			
	PIN		
<b>e-mail</b>			
<b>Phone</b>			
<b>Payment Details</b>			
Draft No			
Draft Amount			
Issuing Bank/Branch			
Date of Issue			
<b>Statistical Information</b>			
Highest Degree:			
Organization/Institution:			
Accommodation Requirement :	<b>Required</b>		<b>Not Required</b>
	Hostel <input type="checkbox"/>	Visitors' House <input type="checkbox"/>	

Date.....

.....  
Signature

## Short Term Course On Digital Signal, Image and Speech Processing with MATLAB

**Course-A: Digital Signal Processing  
with MATLAB  
May 28 - June1, 2007**

**Course-B: Digital Image and Speech  
Processing  
June 4 - June 8, 2007**

Coordinators

**Prof. G. Panda, FNAE, FNASc**

**Prof S. Meher**

Organized by  
*Department of Electronics & Communication  
Engineering*



National Institute of Technology,  
Rourkela-769008, Orissa

## Department of Electronics & Communication Engineering (ECE)

The ECE department of NIT Rourkela offers two bachelors' and two Masters' programs in Technology with specialization in Electronics Communication/ Instrumentation/ Signal Processing/ VLSI. Presently, many scholars are pursuing research by enrolling in *M.Tech (R)* and *PhD programs* especially in the fields of Digital Signal Processing, Digital Image Processing and Communication Engineering. Therefore, a lot of R&D and continuing education activities are going on in these areas. The present short term course is one of them.

### Course Outline

#### A. Digital Signal Processing with MATLAB

##### I. Introduction to MATLAB

Matrices, Specific Features, Functions, Graphics, Input/Output Files, Applications, Signal Processing Toolbox, Image processing Toolbox

##### II. Digital Signal Processing

Discrete time signals and systems: system properties, convolution, correlation, Fourier Analysis of Signals and Systems, Z-transform, DFT, FFT, Design of FIR and IIR filters

#### B. Digital Image and Speech Processing

##### I. Digital Image Processing

Digital Image Fundamentals, Gray level transformations, Spatial filtering, Frequency domain processing, Image restoration, Color image processing, Image compression, Morphological image processing, Image segmentation

##### II. Digital Speech Processing

Speech production, Speech analysis, Speech coding, Speech enhancement, Speech recognition, Speaker recognition

### How to Apply

Interested persons may apply in the format given herewith along with the registration fee. Payment should be made through a Demand Draft, drawn in favour of "**Continuing Education, NIT Rourkela**" payable at **SBI NIT Campus Branch** (Code:2109). The filled in application along with the requisite course fee should be sent to:

#### Prof. S Meher

Coordinator, STC-DSISP

Dept. of Electronics & CE

National Institute of Technology

Rourkela-769008, Orissa

The registration form can also be downloaded from the institute web site: [www.nitrkl.ac.in](http://www.nitrkl.ac.in)

### Registration Fee

Category	Course A or B	Both A&B
Student	3000	4500
Faculty	4000	6500
Professional	8000	12000

### Important Dates

Last date of receipt of applications	:24 <sup>th</sup> May 2007
Confirmation of selection by email	:25 <sup>th</sup> May 2007

### Contact Details

For further information, please contact

#### Prof S Meher

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0661-2463453(R)  
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9861248976

#### Prof G Panda

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