INFORMATION BROCHURE

TEQIP-II SponsoredShort Term Training Program

On

Optimization Methods in Engineering Design

29-30 September, 2016

Course Coordinator Dr. Saroj Kumar Patel

Call for Participation



Organized by

Dept. of Mechanical Engineering National Institute of Technology (An Institution of National Importance) Rourkela – 769008, Odisha

About the Training Program:

The proposed training program presents traditional and advanced methods of optimization having applications in engineering sciences. It tries to close the gap between optimization theory and the practice of engineering.

Topics to be Covered

- Traditional mehods: single objective optimization, single & multi-variable, constrained and unconstrained
- Non-traditional methods: Genetic Algorithm, Simulated Annealing, Teaching-learning-based optimization algorithm, Jaya algorithm, Ant Colony Optimization, Particle Swarm Optimization etc.
- Multi-attribute decision making methods AHP, TOPSIS, PROMETHEE, MOORA, SAW, WPM etc.
- Multi-objective optimization
- Use of MATLAB software in optimization

About the Institute

The institute was initially established as Regional Engineering College in 1961 and was upgraded as a National Institute of Technology in 2002. It an institute of national importance and is fully funded by the Government of India. It conducts BTech, BArch,MTech, Dual degree (BTech & MTech), MA, MBA, M.Sc., Integrated MSc and Ph.D. & MTech (Research) courses in all disciplines of engineering, sciences, humanities & social sciences, and management to around more than 5500 students.

About the Department

The Department of Mechanical Engineering came into existence in 1961. At present the department is conducting a BTech program in Mechanical Engineering, five MTech programs (Mechanical Design & Analysis, Production Engineering, Thermal Engineering, Cryogenics and Vacuum Technology, "Plastics, Composites and Timber Engineering") and a research program leading to Ph.D. degree.

How to reach NIT Rourkela

Rourkela is one of the major steel townships of SAIL. It is also famous for statue of Hanuman. It is located on Howrah–Nagpur–Mumbai main line of South Eastern Railway. The nearest airport is Ranchi which takes 3.5 h to reach by rail. NIT campus is about 8 km and 3 km from Rourkela railway station and Sector-2 bus stand respectively.

Eligibility for Participation

The training program is open to engineering college/university faculty and technical staff members. This is not meant for students or industry participants. As the training program is of interdisciplinary nature, faculty members of any discipline like Civil, Mechanical, Electrical, Electronics, Computer, Chemical engineering etc. can attend the program. Faculty members with Science and Mathematics background can also can attend.

Registration Fee: NIL

Free accommodation can be arranged in guest house/hostel subject to availability. But, no TA/DA will be paid.

Last Dates

• Receipt of Registration Form: 21-09-2016

• Intimation of selection: 22-09-2016

The candidate can send scanned copy of duly signed registration form by e-mail for early selection.

Correspondence Address

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2463516 (R), 9437484951 (M) E-mail: skpatel85@gmail.com

Website:http://www.nitrkl.ac.in/Events_Happen

ings/5Conference/Default.aspx

REGISTRATION FORM

TEQIP-II Sponsored
Short Term Training Program

Optimization Methods in Engineering Design

(29-30 September, 2016)

	(, -	- /		
Full Name						
Designation						
Department &						
Institution with						
full address						
Academic						
qualification						
Years	of	Teaching		Indu	stry	
Experience						
Gender & Age						
Mobile Phone						
Whatsapp No.						
Land	Off					
Phone						
	Res					
Email						
Facebook ID						
Tick the type of accommodation desired		Guest Hou	ise			
		Hostel				
		Own arran	gem	ent		

Signature of the applicant:

Signature of HOD/Principal with seal: