

ADVANCED TECHNIQUES IN LIFE SCIENCES (ATILS)

March 07 – 08, 2013

REGISTRATION FORM

(Please fill in capital letter)

Name:

(First Name) (Middle Name) (Last Name)

Organisation:

Designation:

Mailing Address:

.....

.....

.....

PIN:

Phone: (Office):

(Residence).....Mob:.....

Fax:

Email:.....

Encl: DD No.

Dated..... On

.....(Bank)

Accommodation if required: YES / NO

(If yes mention the duration)

Date and time of arrival:

Signature of candidate

Signature of Head/Faculty of the Department



Technical Sessions

Day 1: Lecture Sessions (Morning)

Day 1: Practical Sessions (Afternoon)

Module I: **Microbial Diversity Study**

Experiment I: 16s rRNA approach for exploring microbial diversity (Bacterial lysate preparation, PCR, Agarose gel electrophoresis, Gel Documentation system, Phylogenetic tree analysis).

Module II: **Bioprocess Technology**

Experiment I: Fermentation process for the production of bioethanol/ Enzymes (using Fermenter)

Day 2: Practical Session (Morning)

Module III: **Nanobiotechnology and Molecular Medicine**

Experiment I: Preparation of biodegradable polymeric nano/micro particles by double solvent evaporation method (encapsulation with target protein/other antigens)

Experiment II: ELISA (Enzyme linked Immuno Sorbent Assay) for estimating specific protein analytes (antigen/antibody) in the solution

Module IV: **Molecular Biology**

Experiment I: RT-PCR - Expression profile of gene in human cancer by RT-PCR

Day 2: Practical Session (Afternoon)

Module V: **Biophysics**

Experiment I: Temperature mediated protein unfolding in presence of nano particles (spectrophotometrically)

Module VI: **Cell & Developmental Biology**

Experiment I: Cell Culture Techniques - Gene transfection and observation by fluorescence.

ADVISORY COMMITTEE

Prof. M. Panda
Prof. S. Bhattacharya
Prof. S.K. Jena
Prof. K.C. Biswal
Prof. S. K. Sahu
Prof. S. K. Patra
Prof. R. Jayabalan
Prof. K.M. Purohit (PIET)

WORKSHOP ON ADVANCED TECHNIQUES IN LIFE SCIENCES (ATILS)

March 07 - 08, 2013

ORGANIZED BY



Department of Life Science
National Institute of Technology
Rourkela



Sponsors



MOHANTY ENTERPRISES

A Solution to Science

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Mobile : +91-9437309215, E-mail : arup_lipu@yahoo.com

ABOUT THE WORKSHOP

The workshop on "Advanced Techniques in Life Sciences (ATILS)" aims to extend its technical knowledge to the young researchers and students in the field of life Science by giving them hands on training to the participants. NIT Rourkela is one of the premier national level institutions for technical education in the country and is funded by the Government of India. The department is actively engaged in teaching and research. Our department is newly established and came into existence in 2008 and the academic curriculum was fully functional in 2009. However, it is not new in terms of experience and cultivating science. The department is well equipped with all the advanced and necessary instruments required to conduct high level research. Our faculties

have the expertise in different fields like Biochemistry, Bioinformatics, Biophysics, Cell biology, Immunology, Food science, Microbiology and Molecular biology. With the previous success of organizing international conference in our department in year 2010 (InCoFIBS), we are happy to announce this two day work shop, ATILS.



WHO CAN APPLY ?

Research Scholars, graduates and post graduate students working in the areas of Life Science can apply. Mostly early career PhD/research students will be preferred as the seats are limited.



VENUE

The Workshop will be held on 07 – 08, March 2013 at Department of Life Science, National Institute of Technology, Rourkela, Odisha. Rourkela is one of the well developed steel township on Howrah-Mumbai main line (via Nagpur) of South Eastern Railway. It is well connected by railway network to the rest of India. The NIT campus is about 8 km from Rourkela Railway station.

IMPORTANT DATES:

Dates for receiving filled up application: February 15, 2013
Intimation of selection for participants: February 20, 2013

Selected candidates will be informed only by e-mail.

ACCOMODATION

Accommodations will be provided to the participants in the Institute Guest Houses.

REGISTRATION FEE (per Delegate)

UG & PG Students:	Rs. 2000/-
Ph.D. students:	Rs. 3000/-
Faculty/Industries	Rs. 5000/-
Accompanying person:	Rs. 1000/-

The registration fees include accommodation, workshop material and working lunch for all the days of the workshop. A participation certificate will be given to all the participants.

HOW TO APPLY:

Interested participants may send their application in prescribed pro-forma along with registration fees through demand draft in favour of *Convener, ATILS Payable at SBI, NIT campus Rourkela (code: 2109)* on or before by February 15, 2013 addressed to Prof. Bismita Nayak, Convener (ATILS), Dept. of Life Science, National Institute of Technology, Rourkela, PIN-769008, Odisha.

PATRON

Prof. Sunil Kumar Sarangi, FNAE
Director, NIT, Rourkela

Organizing Committee

Prof. Samir K. Patra	Chairman
Prof. Bismita Nayak	Convener
Prof. Bibekanand Mallick	Co-Convener
Prof. Surajit Das	Co-Convener
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Prof. K. Pramanik	Member
Prof. M. Gupta	Member
Prof. K. Pal	Member
Prof. S.S. Ray	Member

CORRESPONDENCE:

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For general enquiry regarding the workshop, contact :-

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