

Resource Persons:

Dr. Ambarish Kunwar

- Associate Professor, IIT Bombay.
- Ph.D.: Indian Institute of Technology Kanpur.
- Postdoctoral Scholar : Department of Neurobiology, Physiology & Behavior, University of California Davis.

Dr. Soumyo Mukherji

- Professor, IIT Bombay.
- M.S.: Colorado State University
- Ph.D.: University of North Carolina (Chapel Hill, USA)

Dr. Kiran Kondabagil

- Associate Professor, IIT Bombay.
- Ph.D.: Biochemistry from University of Mysore (work done at CFTRI Mysore)
- Post-doctoral Fellow: The Catholic University of America, Washington DC

Dr. Shamik Sen

- Associate Professor, IIT Bombay.
- Ph.D. in Mechanical Engineering from University of Pennsylvania in Philadelphia.
- Post-doctoral fellow : California Institute for Quantitative Biosciences, University of California, Berkeley.

Dr. Neeta Kanekar

- Assistant Professor, IIT Bombay.
- Research Area: Motor Control, Organization and execution of human movement and postural control in health

Dr. Prakriti Tayalia

- Assistant Professor, IIT Bombay.
- Ph.D.: Harvard University, Cambridge, USA
- Postdoctoral Fellow: Harvard University, Cambridge, USA

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(Vice Principal, V.E.S.I.T.)

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Mrs. Jayassre Ramakrishnan

Mrs. Mugdha Joglekar

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Course Coordinators :

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Vivekanand Education Society's Institute of Technology

Department of Instrumentation
Engineering
Organizes



AICTE-ISTE Approved
Short Term Training Program on

Biology for Engineers

VESIT-ISTE Chapter MH-144
(2nd July to 6th July, 2018)

Venue:

V.E.S.I.T, Hashu Advani Memorial Complex,
R. C. Marg, Collector's Colony, Chembur,
Mumbai – 400 074.

Phone: 022 – 61 532 532/500

Fax: 022 – 61 532 555

About VESIT:

Vivekanand Education Society's Institute of Technology (VESIT) established in 1984, is one of the premier engineering colleges affiliated with the University of Mumbai. VESIT offers bachelors programs in engineering under following streams: Electronics, Electronics & Telecommunication, Computer, Instrumentation and Information Technology.

VESIT also offers Master of Engineering in Electronics & Telecommunication Engineering, Instrumentation and Control, and Information Technology streams and Master of Computer Applications. VESIT is also recognized Ph.D. Center for Engineering and Technology of University of Mumbai, and also a Lifelong Learning Center.

About 'Biology for Engineers':

Biology is largely descriptive science, not idealized like mathematics, nor succeeding in reducing its science to a small number of basic principles like physics. In recent technological era, it is essential for engineers to mimic biological systems to create products and to monitor/ control biological systems so that they can replace, augment, sustain, or predict chemical and mechanical processes.

Course Objectives

'**Biology for engineers**' is the study of combined principles of biology and tools of engineering to create usable, tangible, economically viable products. This course is designed to provide an introduction to that interface, presenting biology from an engineering perspective.

Course Contents:

Biology Module:

- ❖ Introduction to cell and cellular processes
- ❖ Basic Understanding of Bacteria
- ❖ Stem cells – basic science to medicine
- ❖ Cancers- from basic biology to treatment
- ❖ Basic Understanding of Virus

Biophysics Module:

- ❖ Forces at Microscopic scale in Biology.
- ❖ Thermal and Viscous Forces in Biology
- ❖ Thermal Energy and Brownian Motion
- ❖ Diffusion and Active Transport
- ❖ Thermal Bending of Filaments
- ❖ Role of Free energy and entropy in determining protein structure

Bio-Engineering Module:

- ❖ Movement Science and Rehabilitation Engineering
- ❖ Tissue Engineering
- ❖ Cardiac Electrophysiology

Who can attend?

Faculty members of engineering colleges, students, research scholars working in these areas and industry personnel will be immensely benefitted by attending this STTP.

Registration Fees:

The participants are required to pay Rs. **3000/-** towards registration.

Important Dates:

Last date of intimation of interest is **15th June 2018**. Selected participants will be intimated by **20th June 2018** for payment of fees.

REGISTRATION FORM

Short Term Training program on

Biology for Engineers

VESIT-ISTE Chapter MH-144

(2nd July to 6th July, 2018)

Organized by

Vivekanand Education Society's Institute of Technology

Name: _____

Designation: _____

Organization Name: _____

Address for Communication: _____

Highest Academic Qualification: _____

Mobile: _____

Email: _____

DD No./Cheque No./Cash: _____

Signature of Applicant: _____

Date: _____

Signature & Seal of Head of Institution:
