

# Subject Board of Physics


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## SBP Courses for Academic Year 2012-2013

### Please Note

In all e-mail addresses add [@tifr.res.in](mailto:tifr.res.in) unless otherwise mentioned.

To access any course material posted by the instructor, please click on the link.

Legends : Read carefully

@ : Mandatory for 1st year students with B.Sc degree.

\$ : Mandatory for 1st year students joining with M.Sc degree.

& : Mandatory for 2nd year students with B.Sc degree.

# : Mandatory for 2nd year students with M.Sc. degree joining Department of Astronomy & Astrophysics.

\* : Students joining with M.Sc. degree are encouraged to take [DROP TESTS](#) for these courses. The drop test is held at the beginning of the semester. If you are interested in taking a drop test for any course kindly contact the Graduate Course Coordinator or send a mail to gcc [at] tifr.res.in

### [Autumn 2012 Courses](#)

#### Core Courses

Course	Instructor	Email
Quantum Mechanics I @*	Nilmani Mathur	nilmani@theory
Mathematical Methods I @*	Saumen Datta	saumen@theory
Electrodynamics II \$&	Amol Dighe	amol@theory
Exp. Physics + Lab @\$	Arnab Bhattacharya	arnab
<a href="#">Classical Mechanics</a> @*	Sourendu Gupta	sgupta@theory
Electrodynamics I @*	Deepankar Mishra	dmisra
Atomic and Molecular Physics &	V. Prabhudesai	vaibhav
Astronomy and Astrophysics &#	A. Gopa Kumar	gopu
Nuclear Physics &	R. Palit	palit
Particle Physics &	Gagan Mohanty	gmohanty
Advanced Quantum Mechanics \$	Sreerup Raychaudhuri	sreerup@theory

#### Topical Courses

Course	Instructor	Email
<a href="#">Superconductivity</a>	Pratap Raychaudhuri	pratap
<a href="#">Transmission Electron Microscopy in Material Science</a>	Somnath Bhattacharya	somnath
<a href="#">Quantum Field Theory-II</a>	Gautam Mandal	mandal@theory

### [Spring 2013 Courses](#)



#### SBP Courses 13-14

- [Autumn 2013](#)
- [Autumn 2013 Timetable](#)
- [Courses offered earlier](#)



#### Contact Us

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## Core Courses

Course	Instructor	Email
Computational Methods II	H. M. Antia	antia
Statistical Physics I	Rajiv V. Gvai	gvai@theory
Quantum Mechanics II	Vikram Tripathi	vtripathi@theory
Experimental Methods II	A. V. Gopal	achanta
Solid State Physics	Mandar Deshmukh	deshmukh

## Topical Courses

Course	Instructor	Email
<a href="#">How to do back-of-the-envelope calculations (and improve them later)</a>	Sourendu Gupta	sgupta@theory
QCD in Colliders	Manoranjan Guchait	guchait
Gravitation and Cosmology	T P Singh	tpsingh
Quantum Field Theory-1	Sandip Trivedi	sandip@theory
Neutrino Physics	Amol Dighe	amol@theory
String Theory II	Shiraz Minwalla	minwalla@theory
The Stochastic Thermodynamics of Computation	Manoj Gopalakrishnan	manojg
Correlated Electrons	Kalo Maiti	kbmaiti
Modern Experimental Techniques for Nuclear Structure Studies	R. Palit	palit
Atomic collisions: Theory and Technique	Lokesh Tribedi	lokesh
Quantum Optics	Sushil Mujumdar	mujumdar
Introduction to Quantum Information Processing	Naresh Sharma	naresh.sharma.tifr@gmail.com
Photonics	Achanta Venu Gopal	achanta