

Anveshan

An e-Newsletter

Department of Physics, School of Basic Sciences
Sam Higginbottom Institute of Agriculture, Technology and Sciences
(Formerly Allahabad Agricultural Institute), Allahabad, U.P

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Editorial

The Department of Physics at Sam Higginbottom Institute of Agriculture, Technology & Sciences was established in the year 2003 with a vision for Excellence in Physics Education & Research and transform the present society to a science based society. Presently the Department is running Bachelors degree programs and Post Graduate Programs including M. Phil and Doctorial program. The department grew gradually and presently there are 35 Post Graduate and 380 Undergraduate students in the department.

In order to keep abreast with the latest know how of the current scenario, department organize field trips, workshops, seminars etc. regularly. Also the department has undertaken the continuous evaluation system and the academic profile of the department is very lively with all the activities.

In order to generate interest among students towards the physics, Innovative physics experiment workshop was organized by the department, in which the students and staff participated equally. Such endeavors are encouraged in the department and bring forth the new and innovative ideas to the forefront with learning. The event was a great success and some very innovative experiments were being designed during the workshop. Besides this, two national workshops were also organized during the Jan.- June 2013 semester. One was on the Higgs Boson and other on Smart Materials. Both workshops were organized with an aim to equip the students of the latest knowledge in the areas of current interest.

The next semester will see the admission of new students to the department. The Department of physics welcomes them and wishes them a successful association with the department.

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Academic calendar

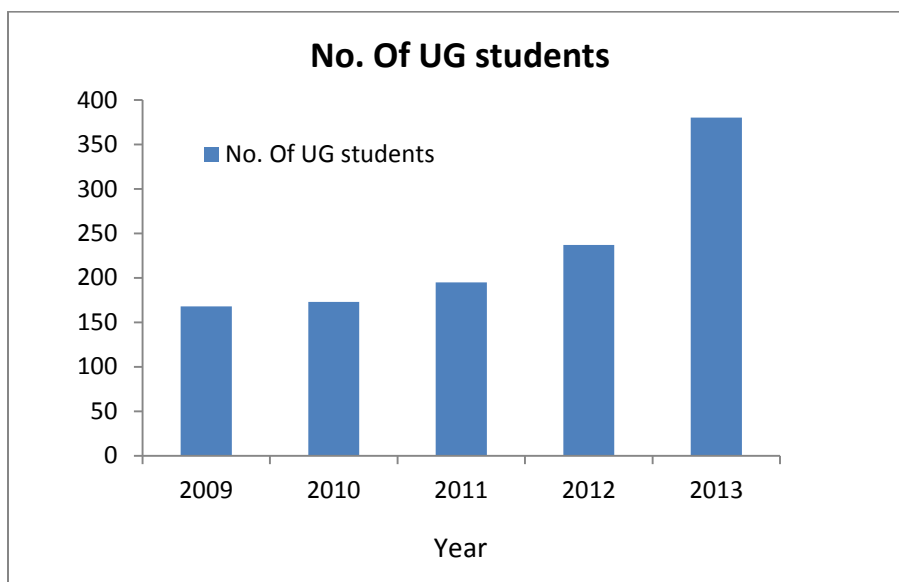
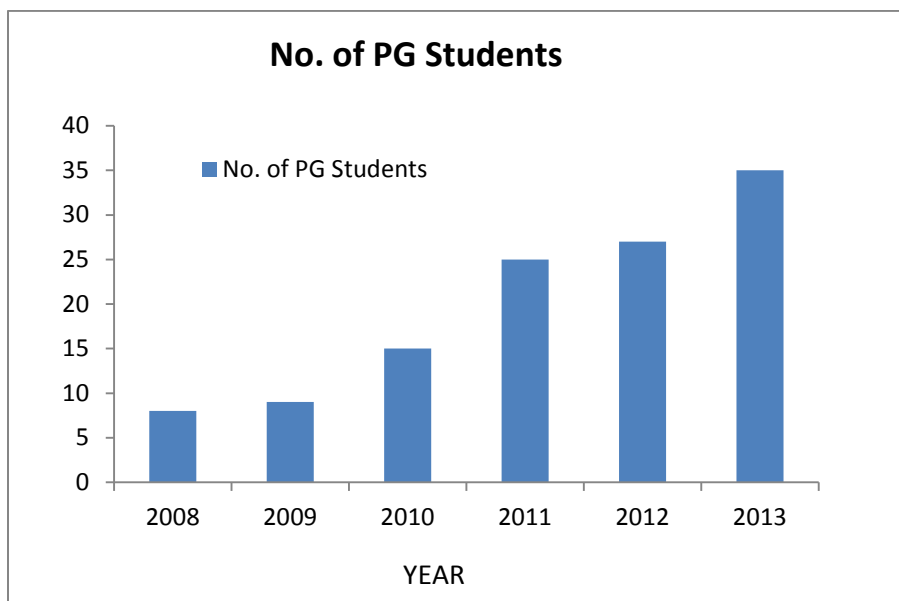
Academic Calendar (January – June 2013)

Commencement of classes	: 7 th January 2013
Test/Quiz	: Test 1 - 25 -28 Feb. 2013 Test 2 - 22 nd – 26 th March 2013 Test 3 - 22 nd – 26 th April 2013
Make up test	: 1 st – 3 rd May 2013
End term exam	: 13 th -24 th May 2013
Semester break	: 28 th May – 05 th July 2013

Academic Calendar (July – Dec. 2013)

Counseling and admission of new students	: 03 nd – 20 th July 2013
Registration (for old students)	: 08 th July – 14 th August 2013
Commencement of classes(Old Students)	: 08 th July 2013
Commencement of classes(For new Students)	: 24 th July 2013
Welcome tea for new students	: 12 th August 2013
Test/Quiz	: Test 1 - 02 nd -06 th September 2013 Test 2 - 07 th – 11 th October 2013 Test 3 - 11 th – 15 th November 2013
Make up test	: 25 th – 29 th November 2013
End term exam	: 09 th -20 th December 2013
Semester break	: 21 st December – 05 th January 2013
Declaration of results and Distribution of grade sheet	: 20 th January 2014
Beginning of Spring Semester	: 06 th January 2014

Glimpse of Student distribution



National workshop on Higgs Boson

A two days National workshop was organized during 17th – 18th April 2013 on “The discovery of Higgs Boson” by the department of Physics, SHIATS. The workshop aimed to provide the up to date information about the much talked elementary particle, which has generated tremendous interest among public and scientist alike recently. The invited speakers included Dr. Manabendra Nath Bera, HRI, Allahabad, Prof. D.P. Jayapandian and Dr. Anil Kumar Singh. The workshop generated interest among students and this was reflected in considerable participation from the students. Around 80 students participated in the workshop and interacted with the scientists during the workshop. The convener and organization secretary of the workshop Mr. Vipul Singh and Dr. Sanish Thomas briefed about the workshop during the inaugural function and successfully organized the workshop.

National Workshop on “Smart Materials: Theoretical and Experimental Approach”

Looking into the fast development of Material Science in the recent past, the Department of Physics, SHIATS, deemed it fit to organize a two day National Workshop on “Smart Materials : Theoretical and Experimental Approach” during 7th – 8th August 2013. The workshop dealt in detail about the various kinds of smart materials and Experimental techniques for their study, Theoretical and Computational techniques such as density functional theory and electronic structure analysis. The workshop aim was to exchange the latest state of art scientific information in the field of Computational and Experimental Material Science and to explore the future research avenues for smart material research for students and researchers.

During the inaugural function, Chief Guest Dr. Marwin Messey, Principal, ECC, Allahabad talked about the importance of such workshop and how the students can be benefitted from them. He further emphasized for the interaction of the students with the leading scientists of the area to gain insight about the field. The Guest of Honour of the function, Prof. (Dr.) H. Shephard, also threw light on the importance of smart materials and wished the organisers for successful organisation of the workshop. Dr. Ravindra Dhar, Chair, Centre of Material Science, Univ. of Allahabad also spoke on the occasion and further delivered an inaugural Lecture on “Current Trend of Materials' Research: Smart Materials for the benefit of the Society”.

The other speakers of the workshop included Prof. A.K. Rai and Dr. P.S. Yadav from Department of Physics, Univ. of Allahabad, Dr. Ashutosh kumar Shukla, ECC, Allahabad and Dr. Sarita Khandka, SHIATS, Allahabad. The workshop was organised to give a balanced view of theoretical and Experimental approaches that are being used for the smart materials. The interest shown by students and researchers was immense and the workshop had a registration of 110 participants. The workshop ended with the valedictory function. During the Chief guest Prof. Deric M. Denis emphasized about the importance of learning and how the learning process should never end. Certificates were distributed among the participants and feedback from the participants was also received.

Innovative Physics Experiments : Let's Do it

During one day Visit of NASI, Summer school students to the SHIATS, Department of Physics organized “Let's Do it : Innovative Physics Experiments” workshop for them on 19th June 2013. There were around 15 experiments on display that were made with the day to day material. The students performed the various experiments and explained the principle behind them. It was an enjoyable experience for all of them as the set of experiments were innovative and were not part of their curriculum and were able to convey the physics behind them in a very simple manner by the help of simple experiments. The team from Physics Department was led by Dr. Sarita Khandka and ably supported by the faculty members and the laboratory staff. Efforts of Dr. Piyush Masih, Dr. Sanish Thomas, Ms. Ekta Chauhan, Mr. Vivek Singh, Mr. Ravi John, Mr. Vivek Denis and Mr. Nishant were instrumental in successful organization of the workshop.