

PHYSICS DEPARTMENT (I) FORMAN CHRISTIAN COLLEGE (A CHARTERED UNIVERSITY), LAHORE

Newsletter 2018-2019 Issue: 01



Mohammad Iqbal
Associate Professor
Head of the Department



Manzoor Masih
Associate Professor



Syed Iftikhar Hussain
Associate Professor

Message from the Head of the Department

"Welcome respected readers!"

Greetings from the faculty and staff of the Physics Department (I), Forman Christian College (A Chartered University), Lahore!

We are pleased to present to you the first edition of our Departmental Newsletter for the session 2018-2019. Through this document we wish to share with you our achievements, our vision and the educational facilities we provide to our students.

As always, the session 2018-2019 has been a lively year in the department with varied activities and events alongside the regular work of the department in teaching and student welfare. The newsletter highlights some of the things that have been doing.

We have more efforts in the works as we continue to serve our students looking for



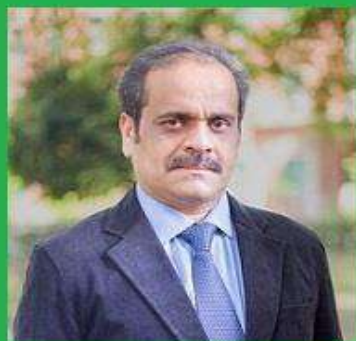
Shazaib Khurshid
Associate Professor

excellence in BISE results both quantitatively and qualitatively, trying to inculcate in them the core values of FCC and living by the motto "By Love Serve One Another".

Thank you,

Mohammad Iqbal

Head of the Physics Department (I) and Associate Professor
FCCU, Lahore



Tanvir Ahmad
Associate Professor

PHYSICS DEPARTMENT

The Physics Department (Intermediate) at Forman Christian College (A Chartered University), Lahore is the largest department in the college section in terms of the number of faculty members and academic support staff. The department caters to the academic needs, related to the subject of Physics, of 30 FSc (Pre-Engineering) sections, 18 FSc (Pre-Medical) sections and 6 ICS sections.

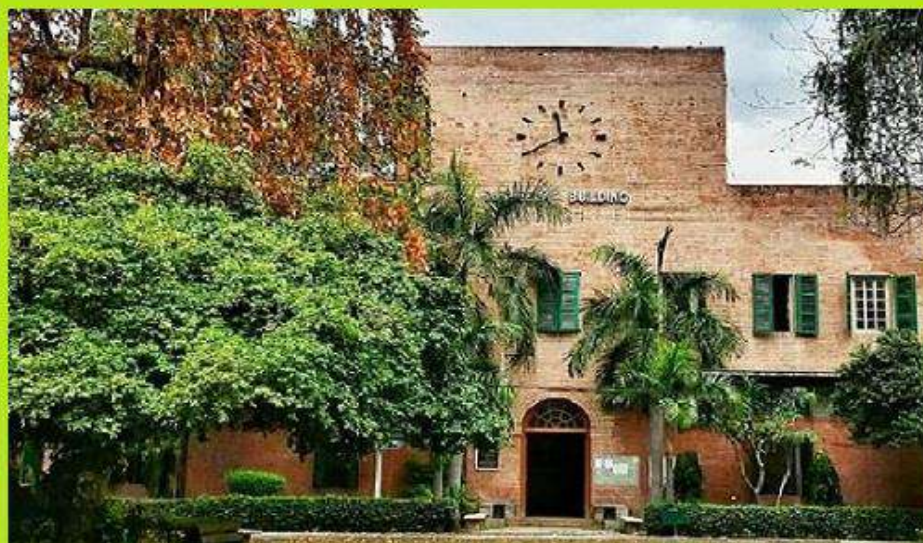
The faculty and staff of the department of Physics is always on the forefront when it comes to providing services to the institution. This includes duties during Intermediate Admissions, Proctorial services, duties during Commencement and serving in various college committees. Services are also provided to BISE, Lahore in various capacities.



M. Umer Chaudhry
Assistant Professor



Komal Yousaf
Assistant Professor





Dr. Naila Noreen
Assistant Professor



Shoukat Masih
Assistant Professor



Arif Allah Rakha
Assistant Professor



Raheel Shamir Farhat
Assistant Professor

Physics Laboratories

The laboratory work is part and parcel of FSc. syllabus. The students practically demonstrate in the laboratories what they learn in theory. Keeping in view the importance of experimental work. Physics Department has three large, airy and well equipped laboratories. We possess high quality, modern equipment which enables us to provide a strong experimental base to our students. Students usually perform a given experiment in a group of two or in case of some of the experiments, individually under the able guidance of our faculty and laboratory demonstrators.





Ambreen Imran
Lecturer



Ayma Khalil
Lecturer



Ahmad Wasif
Lecturer



Bedar Bakht
Lecturer

Our department places special emphasis on the use of varied pedagogical techniques in the laboratories so that a clear connection between theory and experiment is established. Furthermore, students are taught core value of scientific integrity. This ensures that their experimental work is free from bias, fabrication, falsification and plagiarism. Thus, we ensure that FCC students are well prepared in experimental arena once they opt for Physics or Engineering sciences at the university level.



Mr. Tooran demonstrating an optics experiment to the students



An experiment about oscillations being instructed by Mr. Faisal



Raese Jamshed
Lecturer



Kabir Akbar
Lab Demonstrator



Toraan Urooj
Lab Demonstrator



Faisal Qayyum
Lab Demonstrator



Mr. Badar issuing apparatus to a student

Museum

Forman Christian College, Lahore has a long history of quality science laboratory experimental education. We have a large variety of scientific equipment that was used more than a hundred years ago. Physics Department is in the process of establishing a museum equipped with amazing collection of antique scientific equipment / apparatus under the direction and able guidance of worthy Vice Rector (I), Dr. Ivan Suneel.



Faculty and staff listing and separating equipment for the museum

Antique apparatus and equipment cleaned and listed to be displayed in the museum





Irfan Rehmat
Lab Assistant



Badar Munir
Lab Assistant



Seemab Javed
Lab Attendant



Muhammad Danish
Lab Technician

Workshop

Physics Department has a well-equipped workshop where a qualified Laboratory Technician, Mr. Muhammad Danish works round the clock. This workshop facilitates the department by making new apparatus and also helps in the repairing of scientific apparatus which is essential for the smooth conduct of laboratories during the academic session. Mr. Muhammad Danish has provided his expertise to some of university students of Physics and Chemistry Departments in undertaking their research projects.



Mr. Danish employing the Drilling-Threading Machine to repair apparatus



The Lathe Machine being operated by Mr. Danish

Faculty Achievements 2018-2019



Dr. Naila Noreen completed her PhD in Physics from Forman Christian College (A Chartered University), Lahore



Mr. Shoukat Masih completed his MPhil from Forman Christian College (A Chartered University), Lahore and was promoted to Assistant Professor



Mr. Arif A. Rakha was promoted to Assistant Professor



Mr. Raheel Shamir Farhat was promoted to Assistant Professor

Formanites Intermediate Physics Society



The Formanites Intermediate Physics Society (FIPS), which is one of the most active student society on the Intermediate side, is supported by the Physics Department for arranging co-curricular learning and activities for our students. In the session 2018-2019, along with interesting lectures, quiz and essay competitions, FIPS became the first society to arrange a workshop for intermediate students.

This year the student body of the society came up with a new logo for FIPS which represents our attitude of openness towards change through science education.

In September FIPS organized a **documentary screening event**. The documentary "**Alien Invasion: Can we survive?**" from the Curiosity series explained how alien contact is very much a possibility and far from fiction. The documentary also discussed the strategies human race will have to adopt to survive an attack from aliens. The audience found the documentary to be very engaging and informative.



Audience at the Documentary Screening Event, "Alien Invasion"



The Student body of FIPS posing for a group photo with the Advisor



Dr. Pervez Hoodbhoy lecturing students on Critical Thinking, Rationality and Science



Students excitedly crowding around Dr. Hoodbhoy with their questions afterwards

In October, FIPS arranged an interactive session on '**Critical Thinking – Rationality – Science**' which was conducted by renowned nuclear scientist, analyst, activist and social critic, **Dr. Pervez Hoodbhoy**, who is currently a Professor of Physics at Forman Christian College (A Chartered University). This highly informative, knowledgeable and thought-provoking session was followed by a long, interactive question answer session. The event was attended and enjoyed by a large number of students and respected faculty members from different disciplines.

In October, FIPS also organized a **Science Essay Writing Competition**. The topics provided to students in this competition for essay writing included 'The Big Bang Theory', 'Human Colonization of Mars' and 'Earthquakes and Volcanoes'. A large number of students participated in the competition. An Appreciation Ceremony was held to present the participants with participation certificates and the position holders with shield and souvenirs. The certificates were awarded to the participants by the honorable Vice Rector (I) and Head of Physics Department.



Vice Rector (I) presenting position holders of FIPS Science Essay Writing Competition, 2018 with shields and certificates



In January, FIPS organized a **workshop** event on '**Astronomical Skills**' which was conducted by M. Aamna Saleem and her team. Ms Saleem is the Co-founder of Cosmic Perspective, Physics Communicator at Khwarizmi Science Society and has served in the Lahore Astronomical Society and the Planetary Society of Pakistan. This was the first time that a workshop event was organized by an intermediate students' society. This highly informative and thought-provoking session provided hands on experience to the students regarding basic astronomical skills like building your own astronomical telescope.



Workshop participants engaged in analysing lens for making their telescopes with the trainer's help



Workshop trainer, Ms. Aamna Saleem receiving souvenirs from the HOD



Students attempting the very challenging FIPS Nerd Quiz, 2019

In February, FIPS organized the fourth edition of FIPS Nerd Quiz Competition. The quiz contained challenging objective type questions of General Science from the categories of Physics, Chemistry, Biology, Astronomy and Computer Science. A large number of students from different disciplines participated in the competition. Position holders and participants were appreciated in a ceremony.



President and Vice President of FIPS informing the audience about the progress of the society



Advisor FIPS presenting Patron FIPS, Vice Rector (I) with token of thanks

The Closing Ceremony and Prize Distribution for FIPS Nerd Quiz-IV, 2019 was organized by FIPS for the session 2018-19. The annual report regarding the various activities and events organized by the society was presented by the President FIPS, Ahmad Nawaz Khan followed by a documentary video. The participants and position holders of the FIPS Nerd Quiz-IV, 2019 received shields, certificates and souvenirs. The student body and the advisors were also presented with shields of appreciation by the Chief Guest, Vice Rector Intermediate. Lastly, the patrons of the society were presented by shields and thanked for their guidance and support.



**Annual Photograph
Formanites Intermediate
Physics Society 2018-2019**

**Student body with Advisor
and Patrons: Vice Rector (I)
and Head of the Physics
Department**