

JINDAL COLLEGE FOR WOMEN

(Managed by Pragun Jindal Philanthropic Organization)
Jindal Nagar, Tumkur Road, Bengaluru – 560073



DEPARTMENT OF SCIENCE

ANNUAL REPORT 2019-20

- Department of physics organized, one day industrial visit on 5th Aug 2019 to “**Jindal Aluminium Limited**” for I year B.Sc. students along with staff members Mr. Srinivasa P R, Mrs. Shaini M.R & Mrs. Sarvamangala M. U.R. Saho, gave the theoretical knowledge about the company, processing of Aluminium and importing of pure Aluminium from different companies for the preparation of different profiles of Aluminium.
- Department of physics organized, visit to science fest “**Vigyan Samagam**” at *Vishweshwaraiyya Museum*, Kasturba road on 14th Aug. 2019 for final year B.Sc. students, where Dr. Shasvath J. Kapadia who is a research fellow from LIGO gave special talk on “**Gravitational waves**” , in this talk, students were introduced to new field of Astrophysics like the motion of stellar bodies, the black holes and binary stars etc.
- Department of Mathematics Organized One day Extension Activities on “Mathematics High School Syllabus” in New Public School, Nelamangala on 18th September 2019. 10 B.Sc Final year students actively took part in the extension activities.
- On 19th of Aug. 2019, again B.Sc. II yr students were taken to *Vishweshwaraiyya Museum*, Kasturba road, Bangalore by department of Physics for a talk on “**Electricity and Magnetism**”, where students not only gained the knowledge of basis of Electricity and Magnetism but also enjoyed the experiments.
- Department of Chemistry organized **Industrial visit to Mylan pharmaceutical** companies on 31st August 2019. Mylan laboratories provided this kind of opportunity to our II and III B.Sc. college students. It was great opportunity to our students to learn about the production of medicine, handling, working environment, employment practices in industries and other facilities offered to its employees.
- Department Of Physics organized one day **industrial trip** for III year students to Solar and Wind power plants on **23rd October 2019**, which is located in Bhavihalu, Davanagere (D), Madakaripura, Chitradurga (D). Students learnt about how human activity is overloading our atmosphere with carbon dioxide and other global warming emissions. Renewable sources like solar energy and wind energy are converted,

transferred and utilized for further applications which allow us to replace carbon-intensive energy sources and significantly reduce global warming emissions.

- Department of Mathematics Organized One day Extension Activities on “Mathematics High School Syllabus” in Govt School, chikkabidarakallu on 28th January 2020. 13 B.Sc students actively took part in the event.
- Department Of Chemistry organized **One day Extension activities** in ‘Government High School’, Chikkabidarakallu, Bangalore Rural on **29th January 2020** for BSc students. Our Extensional activity intend in promoting the use of low cost apparatus in classrooms to help students to have hands on learning experience like 3D models to explain the structure of molecules. This extensional activity also aims at teaching science by performing experiments so that students will get practical knowledge to understand the subject in depth and aroused the curiosity and interest towards the science among high school students.
- Department of Physics Organized One day Extension Activities on “**High School Physics Syllabus**” in Govt school School, chikkabidarakallu on 30th January 2020. There are 14 B.Sc students along with Mr. Srinivasa P R and Dr. Saravamangala, actively took part in this activity.
- The Department of Mathematics Organized One Day Mathematics Workshop on the topic “Algebra, Differential Equations & its Applications” on 5th February 2020 for UG students in association with IQAC which basically aims to provide knowledge and advance techniques to both students and teachers of various institutes across the district by resource persons. This particular workshop helped the students to think out of the box and brought clarity in their minds.
- Department Of Chemistry organized one day **WORKSHOP** on “Quantum Mechanics and Material Science” on **11th February 2020** at Jindal College for Women for B.Sc students. Resource person Dr. Ganga Periyasamy, UGC-Assistant Professor, Bangalore University, Bangalore provided better explanation for students about the following key points which they have studied in their theory classes: Atomic structure of Bohr’s Model, Photoelectric effect, Black body radiations etc.

- Department of Physics Organized One day workshop on “**Lustrous Light and Women in science**” on 19th February 2020 in our institution. Smt.Sarmistha Sahu, Retd. Prof of Physics, Coordinator, Ammanni IAPT Anveshika (Wing of NANI, Indian Association of Physics Teachers) Bangalore & Dr. Y C Kamala Associate Professor of Physics National College Basavanagudi Bangalore were the Resource Persons. In the workshop students learnt about Black body radiations, about Stationary and non-stationary states of wave functions, Schrödinger Equation and its application etc.
- Department of Science organized one day visit to the **Indian Institute of Science’s “OPEN DAY”** event on **29th February 2020** with I BSc students to enhance the knowledge and awareness of science. The visit has induced more curiosity among students and helps them in understanding the science concepts in detail through experiments. Also they got the information on higher studies and research career.

PHOTO ALBUM

*One Day **Industrial** visit to “Jindal Aluminium Limited”*



*Visit to science fest “**Vigyan Samagam**” at Vishweshwaraiyya Museum*



Mathematics One day Extension Activities on “Mathematics High School Syllabus” in New Public School, Nelamangala



Special talk on “Electricity and Magnetism” at Vishweshwaraiyya Museum



Industrial trip to Solar and Wind power plants



Industrial visit to Mylan pharmaceutical



Mathematics Extension Activities on “Mathematics High School Syllabus” in Govt School, chikkabidarakallu



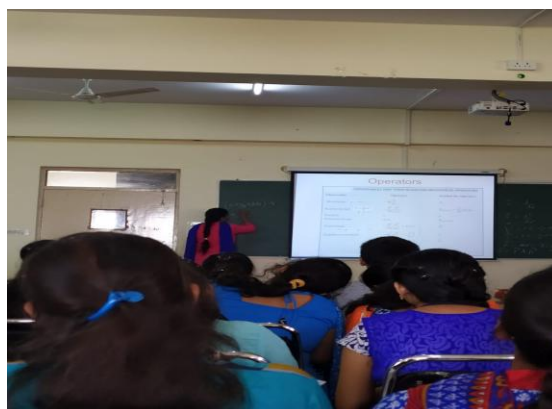
Chemistry One day Extension activities in ‘Government High School’, Chikkabidarakallu



Physics One day Extension Activities on “High School Physics Syllabus” in Govt school School, chikkabidarakallu



One Day **Mathematics Workshop** on “Algebra, Differential Equations & its Applications”



One day **Chemistry WORKSHOP** on “Quantum Mechanics and Material Science”



One day Physics workshop on “**Lustrous Light and Women in science**”



*One day visit to the **Indian Institute of Science**'s "**OPEN DAY**"*