

T FRANCIS DE SALES COLLEGE

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Report on Soft Skill "Know the Nucleus" 2019-20

Kanika, the department association for chemistry organised a classroom activity -"Know the Nucleus" for BSc PCM students on 11-09-2019. The main objective of this activity was to make the undergraduate level students thorough with the basic aspects of nuclear chemistry.

The term nucleus is from the Latin word nucleus, a diminutive of nux ("nut"), meaning the kernel (i.e., the "small nut") inside a watery type of fruit (like a peach). In 1844, Michael Faraday used the term to refer to the "central point of an atom". The modern atomic meaning was proposed by Ernest Rutherford in 1912. The adoption of the term "nucleus" to atomic theory, however, was not immediate. In 1916, for example, Gilbert N Lewis stated, in his famous article The Atom and the Molecule, that "the atom is composed of the kernel and an outer atom or shell"

Atoms are made up of a positively charged nucleus surrounded by a cloud of negatively charged electrons. Nuclei are very dense and extremely small, they contains more that 99.9% of the mass of an atom and are ten thousand times smaller than an atom. The nucleus is a collection of particles called protons, which are positively charged, and neutrons, which are electrically neutral.

Around 65 students attended the activity with all the teaching staff and non teaching staffs from the department of science. An introduction to the concepts like atomic number, mass number, number of nucleons, binding energy and mass defect was initially given to the students by Dr. Nebula Murukesh. They were also given an idea on how the binding energy can be calculated from mass defect and what is known as nuclear stability which forms the basis of radiochemistry.

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After the introductory session, table containing the names of certain nucleus was displayed. The students were asked to take down the names of the nuclei given. Later on the students were asked to find out the missing parameters in the given table without any discussion with each other. Each student filled the missing values. The values were verified and corrected. Later on, one of the students Ms. Vandana concluded the results.

The students enriched their knowledge about the atomic number, mass number, protons, binding energy. The students enjoyed the activity like their favourite puzzle game and the programme could imbibe the basic concepts into their minds effectively.





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19PCM003K	ARUN M	
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19PCM009K	CHANDANA B S	
19PCM010K	DEEPTHI V	
19PCM011K	DEVI P	
19PCM012K	JACKWIN J	
19PCM013K	JHANVI S	
19PCM015E	JYOTI SINGH	
19PCM017K	M DUNDAIAH	
19PCM018E	MALLIKARJUN K	
19PCM019K	MONISHA S	
19PCM020K	SAGAR B NALATAWADA	
19PCM021K	SANDEEP KURALI	
19PCM022K	SANTHOSHA	
19PCM024K	SWATHI L	
19PCM025K	V THARUN	
19PCM026K	VANDANA K	
19PCM027K	VEENA H S	
19PCM028T	VELU S	
19PCM029K	POOJASHREE N	
19PCM030H	SHALINI S SANGWAN	
19PCM031TE	SRAVANI Y	
19PCM032E	RIMI SARKAR	
17PCM002K	AKSHATHA PARANGI	
17PCM003K	ANUSHA. M	
17PCM004K	B K RUBYKA	
17PCM007K	KEERTHI. R	
17PCM008H	MANO. S	
17PCM009K	PREMA. N	
17PCM010K	RAKSHITHA R	
17PCM011H	ROBINSON P	
17PCM013K	SANDEEP KUMAR. S	

17PCM014K	SPURTHI. K
17PCM015H	STUTI TALWAR
17PCM017K	VEDHAVATHY. V
17PCM018TA	DIVYA A
17PCM019S	PRASHANTH YADAV G
17PCM020E	MAYANGLAMBAM ROCK SINGH
17PCM022H	BAHARUNNISA M H K
17PCM024K	JYOTHI SMITHA N
17PCM025K	CHAITHRA K C
17PCM026K	SHARANYASHREE M
18PCM001K	ASHWINI J
18PCM002TA	DELMA D A
18PCM003E	M JAI SETHURAM
18PCM004TA	JAYA SUDHA R
18PCM005K	MANOJ D
18PCM006K	PRIYANKA HA
18PCM008K	PUSHPA SHREE HK
18PCM009K	SAISHNA RAJ
18PCM012H	SONI KUMARI R
18PCM013K	SPARSHA S
18PCM015K	PRAMEELA R
18PCM 018K	DIVYA SHREE V
18PCM020K	SPANDAN S
18PCM022E	SHAD ANSARI
18PCM025K	VANDHANA S
18PCM026H	LALITA CHAURASIYA
18PCM028K	MEGANA M
18PCM030TE	VASANTH KUMASMR S

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