

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

Performance of Karnatak Science College, Dharwad is in line with its vision, priorities and the thrust to achieve its mission. The students admitted in this college can choose to study subjects from a wider choice, as more than 28 different subject combinations, which include rare subjects like Genetics, Industrial Fish and Fisheries, Biotechnology, Microbiology and Forensic Science are available as optional subjects here. In fact, Karnatak Science College, Dharwad is the only constituent college of Karnatak University, Dharwad giving students an chance to choose subjects (for study) from such a wide variety of optionals. In addition, some departments in the college have Post-Graduate sections too, and there are recognised Guides in 7 subjects, for those students who wish to pursue their Ph.D. courses.

Vision of the college: Just Equitable, Tranquil, Harmonious Social Order with **Scientific Temperament**.

Jawaharlal Nehru in his book “**The Discovery of India**”, quotes that “Scientific temper is a way of life — an individual and social process of thinking and acting which uses a scientific method which may include questioning, observing reality, testing, hypothesising, analysing and communicating”. In support of the above statement, the teachers at Karnatak Science College encourage as well as guide the students to develop a rationalistic view of situations, and logical scientific thinking. In the college, scientific temperament is developed among the students by the teachers in the following ways.

- 1. Create a pro-science home:** Every teacher encourages all the students to ask questions related to the subjects taught in theory and practical classes. Students are prompted to find out an answer for their question by way of giving hints. If they are unable to find out the answer, they are directed to use reliable sources which are available to them, like dictionaries, encyclopaedia, reference books, text books and online links, among many others. Students are encouraged to watch more number of scientific programmes by using electronic media, rather than programmes which merely have entertainment value.
- 2. Develop critical thinking skills:** Students are allowed to doubt the well-established hypothesis or concepts, and they are encouraged to raise questions which have been independently framed by using their reasoning. Every teacher instructs the students about the inductive reasoning, which means that specific instances can be derived from general principles. They also provide them (students) not just with knowledge, but an awareness and

inspiration to develop an interest to know more, thereby allowing them to marvel at mysteries that are yet to be solved.

3. **Support their experiments:** Students are prompted to find out the answers to questions by using their reasoning rather than just referring the internet sources. The teachers appreciate those students who find out solutions for the problems, and thus motivate them to debate on the traditional and unfounded biases and arrive at their own conclusions.
4. **Opportunities to apply what they learn:** Teachers perform the experiments in the laboratory as per the standard procedures available in the manuals prepared by them and show the results to prove the genuineness of the procedures adopted by them. Our teachers take knowledge out of the textbooks into the world around them. When it comes to academics, teachers ask students to raise the questions that cannot be obtained directly from the textbooks. They give examples of real-life applications while explaining the concepts.

The objective of adopting these measures to develop a scientific temperament among students is to **bringing forth a progressive society that is free of superstitions and irrational practices**. This helps to develop the correct attitude among future and young citizens of our **nation, in** political, economic and social spheres, and helps to promote tolerance among people having differing thoughts and ideas, as well as professing different religious practices, which is vital in a country like ours, with its wide diversity.



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