

10. Research and it's important components

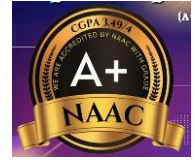
By

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Mathematics is the queen of Sciences. It deals with the scientific approach of getting useful solutions in multifarious fields. It is the back bone of modern science. Ever since its inception it is going into manifold directions. Now in these days of advanced development, it is interlinked with every important branch of technical and modern science. Pure mathematics and Applied mathematics are two eyes of Mathematics. Both are having and playing an equal and significant role in the field of research.

Research is a river of innovative knowledge which flows continuously. New streams of modern inventions come and join the river from time to time and strengthen it. Hence it is our bounded duty to invite the new trends and encourage the activity of research. On other hand, Research is a rainbow of different aspects. Each one has its own importance and influence. Research is a special branch of knowledge. The other branches of knowledge explain the things which are already in existence. Whereas research always explores new inventions and enriches the knowledge with it's originality. A true researcher will always strive to make his mark with the new findings. His motto will be "to strive, to seek, to find, but not to yield". I expect that our generation will follow this motto and try to prove our mettle.

In fact, Research is a zeal of the mind. This instinct makes people to do all, that they can for the sake of research. For a good researcher, nothing is dearer than research in this world. A devoted researcher devotes all his time to find new inventions in the field of research. He will forget to eat or sleep and always engages himself in the work of research. Because of such devoted researchers only the treasure of knowledge in any field is enriched. Let us salute those pioneers and bow our heads before them with respect and gratitude.



You all know that Five components are mixed with nature namely earth, water, fire, air and space (known as pancha bhutas). These are all five elements of nature. More over one and other depend on themselves to sustain the behavior of nature.

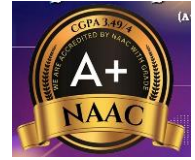
Similarly, in the research lamp, five important components involved, those are The place of Guide, Learning of fundamentals with proper efforts, Study of suitable References, Attending Conferences, finally getting Success.

1. In the field of research “**The place of guide**” is matchless. He is the man who directs us in proper direction and drives us to the goal of success. He is just like a “light house”. As the light house shows the path of the shore, the guide also paves the way for our success. In fact he is our friend, philosopher and guide. That is why in Indian philosophy, a good teacher is considered to be a “Guru” and respected as a god. Students of all ages bowed their heads at the feet of their Guru. Let us also pay our respects to all the teachers, right from the stage of elementary school to the age of research achievements.

2. **Learning of Fundamentals** is most essential in order to understand the higher knowledge of any subject. Without having the basic foundation of fundamentals one can never get grip on the concerned subject. *In other words*, basics are the basement of the knowledge. Unfortunately now a days students are not paying much attention to learn the basics. As a result of it they are facing troubles in the higher studies. Even in the field of research, the researchers must be thorough with the fundamentals of research work. Then only he can go ahead in his work confidently and invent innovative findings. So my dear research scholars let us give much priority to be thorough with fundamentals and strengthen our knowledge.

**“Keep always the necessary basics in your grip
That will enable you to have the subject on fingertip”.**

A famous poet of Indian Sanskrit literature ‘BHARTHUHARI’ divides all the people into three categories. People of first category never start any work. They do nothing to achieve their goals. In the beginning itself, they think of the hurdles or the difficulties which may come on the way. They will be discouraged themselves by it and keep quiet. People of second category start their work and go on the way and do something.



After facing hurdles or difficulties, they will also be discouraged and give up the attempt. But People of third category never think about the hurdles or difficulties that may come on the way. They start their work with full confidence and determination.

If the hurdles or difficulties come on the way, they face them with courage and go ahead. They will not stop until the goal is reached. So we must belong to the third category of the above said persons and achieve our goals.

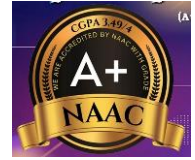
**“Let us go ahead with courage and determination.
We will definitely reach our destination”**

3. Study of suitable References: Research activity is most essential in these days of Global Competition. To acquaint oneself with present research field, References are more important. These references give us the information about the work done in the past and being done in the present. By referring these references, the researcher can get the useful data concerned to his research work. The word reference itself means “Turn for information or help”. These references also guide us where to start and where to stop in our related field.

So one must study these references carefully to go ahead in his research activity. On the other hand acknowledgement of references in the research paper increases the creditability of the researcher.

4. Conferences play an important and useful role in acquiring and spreading the knowledge of Research field. By participating in these conferences one can update the latest trends of Research. So many organizations are conducting National / International Conferences taking much strains and pains. It is the duty of all Research Scholars to utilize these conferences. These conferences help us to know the manifold directions of research in a particular field and strengthen our attitude to go ahead with confidence and communication skills. On the other hand, these conferences pave a path to mutual co-operation also. So my dear research scholars let us make use of these conferences and get necessary encouragement to fulfill our ambitions.

**“Conferences give us proper direction
That helps us to achieve perfection”**



5. Last but not the least-i.e **Success**, The most attractive and amazing word in this world which is craved by all is “SUCCESS”. Everybody wants to get Success in his attempt. But nobody thinks about the necessary features of Success. In fact the features are hidden

in the word itself. The First letter ‘S’ stands for ‘**Sincerity**’. It is most important to carry out any attempt. Second letter ‘U’ stands for ‘**Understanding**’. Without understanding the problem properly nobody can go ahead. Third letter ‘C’ stands for ‘**Commitment**’. One must commit himself to his endeavour for becoming a winner. Fourth letter ‘C’ stands for ‘**Concentration**’. In any attempt concentration is the key for getting success. Fifth letter ‘E’ stands for ‘**Enthusiasm**’. Without enthusiasm nobody can continue his effort. Sixth letter ‘S’ stands for ‘**Searching Mentality**’. This mentality enables a person to find out suitable solutions. Seventh letter ‘S’ stands for ‘**Sanctity**’. It is the most important feature. One must be pious in his attempts. Foul and Fake methods always lead to failure. So my dear research scholars, let us always keep these features in our mind and attain success in every walk of our life.

**“Success is never received
It is always achieved”.**

I sincerely feel that this conference will definitely help for the researchers and act as a best research platform for our new inventions. I conclude my article with a slogan.

**“Be firm in any decision making,
Reach the goal without shaking”**

- **Dr.K.V.L.N.Acharyulu**