

## 10. Research and it's important components

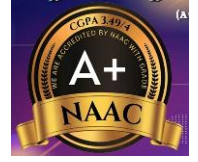
By

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The queen of the sciences is mathematics. It addresses the scientific method of obtaining practical answers in a variety of domains. It is the foundation of contemporary science. Since the beginning, it has taken many different paths. It is now connected to every significant area of technical and contemporary science in these highly developed times. There are two aspects of mathematics: pure mathematics and applied mathematics. In the sphere of study, both have and play an equally important function.

Research is an ever-flowing river of creative knowledge. Periodically, new streams of contemporary inventions join the river and fortify it. Therefore, it is our limited responsibility to promote new trends and research activity. Conversely, research encompasses a wide range of diverse elements. Each has a unique significance and impact. Research is a unique area of study. The things that already exist are explained by the other fields of knowledge. On the other hand, research constantly investigates novel ideas and contributes to the body of knowledge through its uniqueness. A genuine researcher would constantly aim to leave his imprint with novel discoveries. "To strive, to seek, to find, but not to yield" will be his mantra. I anticipate that our generation will strive to demonstrate our abilities and live up to this credo.

Actually, research is a mental fervor. For the sake of research, this instinct drives people to do everything in their power. Nothing in this world is more important to a good researcher than research. A dedicated researcher dedicates all of his efforts to discovering new innovations in the field. He will consistently focus on his research and neglect to eat or sleep. Only the wealth of information in any discipline is enhanced by such dedicated researchers. Let's honor those pioneers and give them a respectful, appreciative bow.



The five elements of nature-earth, water, fire, air, and space-are called as pancha bhutas, as you are all aware. All five of them are components of nature. Furthermore, each one is dependent upon the others to maintain the natural behavior. Similar to this, there are five key elements in the research lamp: the location of the guide, learning the basics with the right effort, studying relevant references, attending conferences, and, at the end, achieving success.

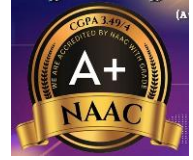
1. "The place of guide" is unmatched in the field of research. He is the one who guides us in the right route and motivates us to achieve our objectives. He resembles a "light house." The guide prepares the road for our triumph, just as the lighthouse indicates the shore's course. He is actually our mentor, friend, and philosopher. For this reason, a good teacher is revered as a god and referred to as a "Guru" in Indian philosophy. Every age group of students bowed their heads at their Guru's feet. From the primary school years to the era of scientific accomplishments, let us also honor all educators.

2. Understanding the fundamentals is crucial to comprehending the more advanced aspects of any subject. One can never grasp the subject at hand without a solid understanding of the principles. To put it another way, the foundation of knowledge is the fundamentals. Unfortunately, students are not paying much attention to learning the fundamentals these days. They are having difficulties in their further education as a result. Even in the realm of research, researchers need to be meticulous about the basics of their work. Only then can he confidently continue his work and come up with novel discoveries. Therefore, my dear research scholars, let us prioritize strengthening our expertise and being thorough with the fundamentals.

"Always hold onto the essentials that will allow you to have the subject at your fingertips."

BHARTHUHARI, a well-known poet in Indian Sanskrit literature, categorizes everyone into three groups. Individuals in the first category never begin any kind of work. They take no action to accomplish their objectives. They consider the obstacles or challenges that may arise in the beginning itself. It will demoralize them and cause them to remain silent. Individuals in the second category begin working, travel, and take action.

They will also become disheartened and abandon the endeavor after encountering obstacles or challenges. However, those in the third type never consider the obstacles



or challenges that can arise. They approach their work with a strong sense of resolve and confidence.

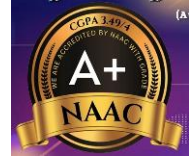
They proceed bravely in the face of any obstacles or challenges that may arise. They won't give up until the objective is accomplished. Therefore, we must fulfill our objectives and fall into the third group of the aforementioned individuals. Let's move forward with bravery and resolve.

3. Studying appropriate References: In current days of global competition, research effort is crucial. References are more significant for familiarizing oneself with the current field of study. We can learn more about the work being done now and in the past from these references. The researcher might obtain pertinent information for his study project by consulting these references. "Turn for information or help" is what the word reference itself signifies. In our linked field, these references also help us determine where to begin and where to finish.

Therefore, in order to proceed with his investigation, one needs carefully review these references. However, acknowledging sources in the research paper improves the researcher's credibility.

4. Conferences are a valuable and significant way to learn about and disseminate research area expertise. Attending these conferences allows one to stay up to date on the most recent research trends. Numerous organizations are putting a lot of stress and strain on themselves by holding national and international conferences. All Research Scholars have an obligation to make use of these gatherings. In addition to strengthening our mindset to move forward with confidence and communication abilities, these conferences help us understand the various directions of study in a certain topic. However, these gatherings also create a road for mutual cooperation. So, my dear research researchers, let's take advantage of these conferences and receive the support we need to achieve our goals.

**"We receive the right guidance from conferences,  
Which aids in our pursuit of perfection."**



5. Finally, but just as importantly, success "SUCCESS" is the most alluring and wonderful word in the world, and everyone aspires to it. Everyone wants his attempt to be successful. However, hardly one considers the essential components of success. Actually, the word itself conceals the traits. "Sincerity" is what the first letter "S" stands for. The most crucial thing is to make any effort. "Understanding" is represented by the second letter, "U." Without a thorough comprehension of the issue, no one can proceed. "Commitment" is what the third letter "C" stands for. To succeed, one must dedicate oneself to his endeavor. The fourth letter, "C," represents "Concentration." The secret to success in any endeavor is attention. "Enthusiasm" is represented by the fifth letter, "E." Without passion, no one can keep up their efforts. "Searching Mentality" is represented by the sixth letter, "S." One can discover appropriate solutions with this mindset. The seventh letter, "S," represents "sanctity." It is the most crucial component. One's efforts must be religious. Failure is always the result of poor and fake approaches. Therefore, my dear research scholars, let us always remember these characteristics and succeed in all that we do.

**“One never receives success. It is always accomplished”.**

This conference will undoubtedly benefit the researchers and serve as the ideal research venue for our new ideas, I firmly believe. I end my piece with a catchphrase.

**“Achieve the goal without faltering, and be firm in all decisions”.**

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