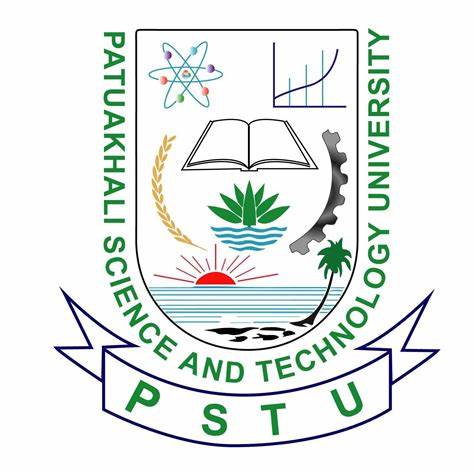
**PATUAKHALI SCIENCE AND TECHNOLOGY UNIVERSITY**



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Course Code: CCE-112

### **SUBMITTED TO:** **Dr. Md Samsuzzaman Sobuz**

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Explain different types of carrier option as a student of CSE

Computer science is a trending career path that most students opt for. The field of computer science is diverse, with many career options open to graduates. Due to this, there is also high career growth. Computer science graduates can find jobs in both the public and private sectors.

Here are some of the best careers after computer science engineering.

***Software Development:***

This is one of the most popular career options for CSE students. As a software developer, you will be responsible for designing, developing, and testing software applications. You may also be responsible for maintaining and updating existing software systems.

***Data Science***:

With the increasing amount of data being generated every day, there is a growing demand for professionals who can analyze and interpret this data. As a data scientist, you will use statistical and computational techniques to extract insights from large datasets.

***Cybersecurity***:

As technology continues to advance, the need for cybersecurity professionals is also increasing. As a cybersecurity expert, you will be responsible for protecting computer systems and networks from cyber threats such as viruses, malware, and hacking attempts.

***Web Development***:

This involves designing and building websites using programming languages such as HTML, CSS, and JavaScript. Web developers may also be responsible for maintaining and updating websites.

***Artificial Intelligence/Machine Learning***:

With the increasing use of AI and ML in various industries, there is a growing demand for professionals who can design and implement these technologies. As an AI/ML expert, you will be responsible for developing algorithms that enable machines to learn and make decisions.

***Mobile App Development***:

This involves designing and developing mobile applications for smartphones and other mobile devices. Mobile app developers may work for a software company or as a freelance developer.

***Database Administration***:

Database administrators are responsible for managing and maintaining databases that store important information. This involves ensuring that the database is secure, reliable, and efficient.

These are just some of the career options available to CSE students. The field of computer science is constantly evolving, so there are always new and exciting opportunities emerging.

Discuss Requirements to Get A CSE job

To get a job in the field of Computer Science and Engineering (CSE), there are certain requirements that you need to fulfill. Here are some of the most important requirements:

***Education***:

Most employers in the CSE field require a minimum of a Bachelor's degree in Computer Science or a related field. Some positions may require a Master's degree or a PhD. It's important to have a solid understanding of computer science concepts and programming languages, and to stay up-to-date with the latest developments in the field.

***Technical Skills***:

As a CSE professional, you will be expected to have strong technical skills, including programming languages like Java, Python, C++, and SQL, as well as experience with operating systems, databases, and software development tools.

***Problem-solving Skills:***

CSE professionals are often called upon to solve complex problems, so it's important to have strong analytical and problem-solving skills. You should be able to approach problems from multiple angles, evaluate different solutions, and choose the most effective approach.

***Communication Skills***:

In addition to technical skills, you will also need strong communication skills. You will need to be able to explain complex technical concepts to non-technical colleagues, work collaboratively with other team members, and present your ideas clearly and persuasively.

***Experience***:

Many employers prefer candidates with previous work experience in the CSE field. This can be gained through internships, co-op programs, or previous employment. Experience in open source projects or contributing to coding communities can also be helpful.

***Professionalism***:

Employers look for professionals with a positive attitude, strong work ethic, and a willingness to learn and adapt. It's important to be professional in all aspects of your job search, from your resume and cover letter to your interactions with potential employers.

***Certifications***:

In some cases, employers may require or prefer candidates who hold industry-recognized certifications. These can include certifications in specific programming languages, databases, or software development tools.

In summary, to get a job in the CSE field, you need to have a strong education, technical skills, problem-solving skills, communication skills, experience, professionalism, and potentially certifications. By developing these skills and qualifications, you can increase your chances of finding a rewarding career in the field of CSE.

Why did you choose the CSE subject for your undergraduate study

There are several reasons why a student might choose to study Computer Science and Engineering (CSE) as an undergraduate:

***High Demand for CSE Professionals***:

CSE is a rapidly growing field, and there is a high demand for professionals with CSE skills. Graduates with a degree in CSE can find employment in a wide range of industries, including technology, finance, healthcare, and more.  
  
***Lucrative Salaries***:

Due to the high demand for CSE professionals, salaries in the field are typically high. According to the Bureau of Labor Statistics, the median annual wage for computer and information technology occupations was $91,250 in May 2020.  
  
***Constantly Evolving Field***:

CSE is a field that is constantly evolving, with new technologies and techniques being developed all the time. As a result, CSE professionals are always learning and growing in their careers, and have the opportunity to work on cutting-edge projects.  
  
***Wide Range of Career Options***:

There are many different career paths available to CSE graduates, including software development, data science, cybersecurity, mobile app development, and more. This means that graduates can find a career path that aligns with their interests and passions.  
  
***Ability to Make a Difference***:

CSE professionals have the ability to make a positive impact on the world by developing technology that can help solve real-world problems, such as improving healthcare, increasing access to education, and reducing carbon emissions.  
  
Overall, studying CSE as an undergraduate can provide a wide range of career opportunities, the potential for high salaries, the ability to make a positive impact on the world, and the opportunity to work on cutting-edge technologies.