

COMPUTER SCIENCE DEPARTMENT

Table 2: Course Outcomes, Program: B. Sc Computer Science (Hons), Program code: CMSA

S.I. No	Course	Semester	Course Code	Credit	Marks	Course outcome	Skill Development related to employability and Entrepreneurship development
1	Digital Logic (theory)	1	CMS-A-CC-1-1-TH	4	70	After completion of this course, students will Apply knowledge of digital logic to explain natural physical processes and related technological advances. Use an understanding simple digital circuits and solve problems encountered in everyday life, further study in science, and in the professional world.	The course focuses to develop the basic knowledge in mechanics. The basic knowledge and conception of mechanics is essential to understand the higher level physics and engineering. The content of course is also important to qualify the NET, SET, GATE and other job oriented examinations for Computer Science students.
2	Digital Circuits (Practical)	1	CMS-A-CC-1-1-P	2	30	In digital Practical students implement the circuits which are taught in theory paper.	Basic instruments handling capabilities are developed. That knowledge is essential for the experiments in higher semester.
3	Programming Fundamentals using C (theory)	1	CMS-A-CC-1-2-TH	4	70	Having successfully completed this course student will learn The use of basic Programming language. What is variable, what is constant, use of array.	Basic knowledge Programming Language is very essential for Computer Science students. The content of course is also important to qualify the NET, SET, GATE and other job oriented examinations for Computer Science students.

4	Programming in C	1	CMS-A-CC-1-2-P	2	30	On completion of this course, the students will be able to do the basic programming in C..	This knowledge is very essential for further semester and study.
5	Data structure (theory)	2	CMS-A-CC-2-3-TH	4	70	Completion of this course will enable the students to: Know the basics structure of data stored in computer memory.	Basic Understanding is needed to qualify NET, SET, GATE and other job oriented examination.
66	structure using C (Practical)	2	CMS-A-CC-2-3-P	2	30	On completion of this course students will have hands on experience to handle data in memory.	Basic data structure handling capabilities are developed. That knowledge is essential for the experiments in higher studies.
77	Electronic Devices and Circuits	2	CMS-A-CC-2-4-TH	4	70	On completion of this course students will be able to understand basic features of electronic circuits.	Electronic circuit is very important part of at higher level. The content of course is also important to qualify the NET, SET, GATE and other job oriented examinations.
8	Electronic Devices and	2	CMS-A-CC-2-4-P	2	30	On completion of this course students will have hands of experience to implement basic electronic circuits.	Very basic instruments handling capabilities for Waves and Optics are developed. Measurement of different physical quantities is useful in realizing the physics in daily life.

Programme Outcomes of B. Sc Computer Science

1. EASINESS OF FINDING JOB

People with computer science diploma can find jobs in very many places and can be employed in various positions to perform many types of tasks. Field of computer science is definitely not oversaturated, and there is big demand for competent computer scientists. Ones with computer science degree are needed to work as software engineers, hardware engineers, app developers or web developers, system architects, project engineers, networking engineers, software testers and in many other jobs.

2. COMPUTER SCIENCE GIVES YOU POSSIBILITY TO CHANGE THE WORLD

The IT knowledge you acquire in college will allow you to create applications and programs that have the chance to change the world. Apps like PayPal or Uber have already changed the lives of millions of people. You also have the chance to make a revolution or be one of the people who work on innovations that will take humanity forward. All you have to do is combine an amazing idea with your IT skills and create something new.

3. EASINESS TO WORK REMOTELY

According to Stack Overflow Developer Survey 2019 which was completed by 70 thousands of respondents 51,8% of programmers work remotely at least a few days each month or more often. 12% of all of programmers work full-time remotely. There are a lot of remote job offers for computer science graduates and many possibilities for independent business and freelance activity, which can be run by a person familiar with computer science.

4. GETTING POWERFUL AND VERY USEFUL SKILLS

By studying computer science you will gain skills that will broaden your horizons and make you not only a very valuable employee who many companies will want to employ, but also you will get the opportunity to create amazing things that you can program yourself, and which most people could not create by themselves. You will gain knowledge and skills that you will be able to apply in the future to facilitate and speed up many processes and to solve many problems.

5. BROAD AND IN-DEPTH IT KNOWLEDGE

Some say that it is not worth studying for a diploma, because you can learn programming yourself, or you can take a paid course. That's right, you can get specialized skills yourself. However, if you decide on a computer science diploma, you will also gain a very wide knowledge and a broader view of problems, which can give you an advantage when solving more complex tasks.

6. SELF DEVELOPMENT

It's amazing how a computer studies student can develop in a few years of studying. Many students come to the first year of study as kids, still living at the expense of their parents, and after 2 years they find a good job that they do part-time after class and start earning as much as many adults while still being students. In addition, learning computer studies develops imagination and strict mathematical skills and teaches how to efficiently solve difficult problems. One of the biggest benefits of studying computer science is problem solving, an essential skill for life. These skills are useful later in life and allow e.g. for more pragmatic and logistic approach to many everyday matters.

Programme Specific Outcomes (PSO) B. Sc Physics

GAINING CONTACTS IN THE IT INDUSTRY

One of the biggest advantages of studying is the opportunity to meet a large number of people from the industry in which we want to be a specialist. It's the same with studying computer science. Thanks to your studies, you will establish first useful business, scientific and social contacts with people from your industry.

YOU CAN WORK AND EARN REGARDLESS WHERE YOU ARE LOCATED

There is already a whole bunch of sites, groups on Facebook and organizations associating so-called digital nomads. After completing computer science studies, you will have many skills that will allow you to find a job, or earn on your own, regardless of where you are. This is not just about working remotely for one company, but about, for example, the possibility of traveling around the world and in the meantime writing custom programs and scripts for their clients located somewhere far at the end of the world.

VERY GOOD PERSPECTIVES FOR THE FUTURE

According to most analysts and specialists, IT is the future of the world and more and more services and elements of human life will be gradually transferred to the Internet and the digital world. As a result, the demand for good, qualified and specialized computer scientists will increase and the future will increasingly depend on them.

POSSIBILITY OF EXPRESSING YOUR CREATIVITY

Imagine if there is a 13-year-old who comes up with a brilliant idea that can change the world. He has a revolutionary idea, but unfortunately he has neither skills, nor education, nor knowledge to materialize this idea and pass it on to the world.

Now imagine that such a 13-year-old knows how to program has access to the Internet and a computer and can realize his revolutionary idea translating it into an application, website, portal, or new technology.

Without computer science knowledge it would be difficult. But thanks to programming skills, each of us gains a great opportunity to create a new reality and transfer all our best ideas to a computer and to the virtual world.