THE NEXT STEP

Graduateship Programme in Chemistry 2020

www.ichemc.edu.lk/ccs
Congratulations!

You are about to take THE NEXT STEP!

With the whole new experience that College of Chemical Sciences has to offer, get ready to traverse the exhilarating journey of a thousand miles towards fulfilling your dream of becoming a true scientist.

Welcome to CCS!
#ChemistInYou
It is with great pleasure that I pen this message to be included in the prospectus of the College of Chemical Sciences, Institute of Chemistry Ceylon. This illustrious Institute has contributed immensely to the chemical industry in the country and the field of academia for the past 40 years. The College of Chemical Sciences, functioning as the educational arm of the Institute of Chemistry Ceylon, has worked towards providing very high standard professional education to students willing to pursue higher studies or employment in the field of science and it is with pleasure that I join hands towards advancing the education provided by this Institute.

College of Chemical Sciences comprises a dynamic and highly stimulating teaching and research environment owing to the skilled academics and staff members that have dedicated their life to offer quality education to the students. An integral part of the exposure provided by the College of Chemical Sciences equip our graduates with the necessary requirements and training to achieve success in the cooperate sector as can clearly be seen today. We hope for our graduates to flourish in the fields that they decide on, be it in the academia or industry and to look beyond their immediate horizons to realize the potential they have within them.

I wish all the student who become part of this family all the success in their endeavor in pursuing studies in the field of Chemistry.

Professor Sagarika Ekanayake
Dean, CCS
College of Chemical Sciences

The Institute of Chemistry Ceylon, successor to the Chemical Society of Ceylon, (founded in 1941) is a professional body responsible for the maintenance and enhancement of chemistry in Sri Lanka. College of Chemical Sciences (CCS), initiated by the late Professor JNO Fernando, is the educational arm providing the professional qualification with the purpose of producing quality chemists in mind. CCS opens up a new vista for students having a passion towards pursuing the field of science and research and also for minds blooming with novelty. CCS is where a student is made to explore the chemist within and to become an authentic individual in making.

“Be sure you put your feet in the right place, then stand firm.”

-Abraham Lincoln
CCS offers a four-year bachelor’s degree equivalent Graduateship in Chemistry (GIC) course and a two years Diploma in Laboratory Technology (DLT). Furthermore, we offer numerous standalone courses, workshops, training seminars etc.

In the first two years, students are given an extensive knowledge of the fundamentals and advanced concepts in different branches of chemistry namely, inorganic, organic, physical and analytical. Proceeding to the third and fourth years, whilst strengthening the fundamentals learnt, they are exposed to specialized topics in chemistry such as polymer chemistry, food chemistry, nanotechnology and chemical engineering etc. Furthermore, we cater towards the improvement of the overall knowledge of the student in different fields by offering courses related to management, economics and Information technology.

A separate course to teach mathematics and biology for students who did not sit for the respective subjects at the advanced level examination is offered to facilitate the understanding of specialized topics. Language courses would be conducted to enrich the foundation on which the fundamentals are taught for a thorough understanding of the concepts.

Even though the essence of all subjects offered is chemistry, a strong background in the field of biochemistry, molecular biology and biotechnology is also provided for students interested in these fields.

The course content amounts to 120 credits. Theory based courses sum up to 98 credits with 1 credit being equivalent to 15 lecture hours. In addition, tutorial sessions and Peer Assisted Student Support sessions (PASS) would be conducted. The practical courses offered total up to 22 credits with 1 credit being equivalent to 30 laboratory sessions. Moreover, students also have the opportunity of carrying out a research project worth 8 credits under the supervision of highly experienced and qualified external and internal lecturers and scientists.
The Graduateship in Chemistry course offered by the College of Chemical sciences is an undertaking that is built towards catering to individuals in different situations sharing the same goal- the pursuit for knowledge and intellectual development.

School leavers having passes in three subjects at the G.C.E Advanced Level Examinations including Chemistry as a subject are considered eligible to enroll.

Students who have successfully passed their Cambridge and Edexcel Advanced Level examinations, or any other educational examination deemed equivalent to the aforementioned by the Academic Board of the College of Chemical Sciences and the Council of the Institute of Chemistry are accepted.

University students who follow different disciplines related to the vast field that is Chemistry have the opportunity to follow this course as a further enrichment of knowledge in their particular field and also to gain an in-depth understanding from the perspective of a chemical background.

University students are also able to enter into the programme for the purpose of securing a special degree qualification in the event that they did not manage to do so in their respective universities. Such students only have to follow the last two years of the GIC curriculum so as to gain this much sought-after GIC qualification.

In addition to such students with the above qualifications, we also find eligible individuals who have successfully completed the Diploma in Laboratory Technology Course (also offered by the College), or Open University Foundation Course (Levels 1 and 2) with Chemistry as a subject.

“CCS encourages the molding of not just a chemist, but a wholesome and well balanced individual.”

Dilendra Nilupali Wijesekara
Level 4 student,
Rotaractor & Gavelier
In the first and second years, students have the opportunity to choose between attending weekend lectures or weekday lectures. This means that there will be two parallel lecture sets conducted. During the third and fourth years however, compulsory lectures are scheduled on weekends, while some optional subjects are scheduled on weekdays. The research project on the other hand, is carried out by the student throughout the week for the duration of about one year.

Having completed four years of study under the Graduateship in Chemistry programme, students are granted the designation of Graduate Chemist, which is a professional qualification equivalent to that of a Bachelor's degree in Chemistry. Based on the grade point average upon the completion of the course, the qualification can be classified as first class, second class upper, second class lower and general pass. Having completed three years of study, one could opt to obtain the Professional Designation of Licentiate Chemist. In the event of a student needing to obtain recognition for leaving the programme at the second year of study, he or she is granted the qualification of Advanced Diploma in Chemistry.

For a student who wishes to continue studies with one of our affiliate universities, a transfer programme is available after two years of study at CCS. If one joins the Northumbria University at UK, an additional one year of study is required to obtain a Bachelors in Chemistry. Upon completion of another two years at the University of Cincinnati, USA, one would obtain a Bachelor's degree in Science with a Major in Chemistry. A similar qualification awaits a student who completes two years if they opt to join the Truman State University, USA. At the Deakin University, Australia, direct entrance to the second year of a Bachelor's degree program in Science with a Major in Chemistry or a Bachelor's degree program in Forensic Science are offered.
Facilities

We believe that any scientific intellect needs fuel to continue to burn with the flame of curiosity and analytical thinking. To that end, we take much effort in providing adequate facilities to our students to encourage maximum intellectual growth.

Library

The Clodagh Nethsingha Library located at Adamantane House comprises a diversified collection of reading material that enriches the knowledge hub of the student. Textbooks on the different fields of chemistry, monographs written by distinguished professors and lecturers at our College, past question papers and a collection of thesis by students who conducted research are available for reference. It also renders photocopying, spiral binding and internet facilities.

Being a repository of knowledge, our library has sufficiently developed resources that are geared towards providing efficient and user-friendly services. Recently updated library reference system provides students the added advantage of a faster and more effective referencing service. Library is available for students on all seven days of the week.

Laboratories

Our institution focuses on producing graduates of high calibre and is therefore more than prepared to expose its students to the practical aspects of Chemistry. The College labs are of high standard in terms of instrumentation, resource availability and safety. We have several laboratories equipped with the necessary facilities to serve the multitude of educational and practical goals that we are focused on achieving. The Ramakrishna Laboratory and the recently renovated E. R. Jansz laboratory are general laboratories utilized to provide fundamental practical skills and hands on experience to students. The Sultanbawa Laboratory is dedicated for research. We also have two laboratories for Microbiology and Biochemistry experimentations thereby widening the exposure to chemical sciences.

“To enjoy things in life and for setting up high standards for my passion in chemistry, no doubt CCS was my platform.”

Anjana Wijesekara
Graduate Chemist (2015)
Doctoral Candidate, University of Warwick, UK
**Instrument Facilities**

The H D Gunawardhana Instrument Center fortifies the quality of research carried out at our Institute by offering novel state of the art instrumentation. The Zeeman polarized Atomic Absorption Spectrometer with Flame, Furnace, Hydride generation capabilities, a dual beam UV- Visible Spectrometer, Fluorescence spectrometer, Fourier Transform Infrared Spectrophotometer with Attenuated Total Reflectance, Gas Chromatograph, High Pressure Temperature Reactor and two Electrochemical Workstations are all part of the impressive array of instruments available for use. Minor equipments such as the Lamina Flow, Rotary Evaporator, Shaking Water bath, Shakers, pH meters, Conductivity Meters, Ovens and a Muffle Furnace are also available.

In addition to research, these instruments are used for teaching upper level undergraduate labs and for analytical consultancy services. Maintenance and supervision of the H D Gunawardhana Instrument Center is carried out by qualified staff having specialized training for the particular instruments.

**Computational Research and Learning Center (CRLC)**

The power of mankind lies in his ability of innovating great tools to reach greater heights in scientific and technological advancements. The College recognizes this and is fully equipped with a Computational Research and Learning Center (CRLC). Research at the CRLC aims at advancing the frontiers of theoretical chemistry through the development of new theoretical approaches and novel simulation tools, which are applied to a wide range of problems. A variety of theoretical and computational approaches are used, including electronic structure methods, classical and quantum dynamics, statistical mechanical descriptions and control theory. Current studies focus on novel drug-design strategies, photochemical processes, study of reaction mechanisms and protein folding. The research has a strong interdisciplinary character.

Students also have the opportunity of using technology at the Computational Chemistry practical sessions. At CRLC, the current research group has the resources to execute high-end GPU-accelerated computing to aid them in their various research interests such as small molecule drug design and discovery.

To ensure optimal results, the center is equipped with graphic workstations, a 40 core dual-xeon computer server and specialized software. GOLD suite of programs, Spartan’16 Parallel Suite, The Amber Molecular Dynamics Package and Maestro enable the exploration of the many areas of molecular dynamics with the processing capabilities of such a technological arsenal at their fingertips.
At CCS, we consider the Classroom Based Teaching (CBT) as the dawn of student’s learning. CBT does not limit education to the teacher and the blackboard. Therefore, with modern technologies and well-experienced lecturers, we understand that pedagogy is a broad area that involves large group teaching, tutorials, seminars, small group teaching as well as laboratory or practical teaching. Our students come from different backgrounds. Hence, a good pool of different expectations, experiences, and assumptions make us strive to have a holistic approach.

To achieve the above, the CCS academics are aware of the Intended Learning Outcomes (ILOs) and the expected level of expertise defined in the Bloom’s taxonomy with suitable lesson planning. This opens up a range of approaches in teaching such as traditional lecturing, discussions, debates, audio-visual materials, question and answer sessions, etc. provided the lecture breaks are wisely incorporated. This helps to keep our students’ interest and concentration on learning.

The students’ learning is not limited to just attending lectures. The cultivation of habits such as note taking, note making, and small group or individual learning might be useful to develop the cognitive skills of students as 90% of learning happens outside the classroom. The library at the CCS provides ample amount of resources to accelerate this. This creates new avenues such as Problem Based Learning (PBL) and Research Based Learning (RBL) where the student uses his or her critical thinking to analyze the facts given during the classroom.

The learning process will not be complete without assessments. Therefore, conducting assessments at different time intervals of teaching and learning process might be helpful to both the teacher and the student to gauge the student’s current position. The assessments can be in the form of formative (practical courses) and summative (theory courses) where the student has an opportunity to demonstrate his/her skills gained during the course.

“In the Classroom

“What CCS taught me has helped me to not only discover my potential in the field of science, but also to become a recognized scientist in the research arena.”

Duminda Ranasinghe, PhD
Graduate Chemist (2009)
Postdoctoral Researcher, Massachusetts Institute of Technology, USA
The lecturers at the College of Chemical Sciences are the cream of their respective generations’ academic and scientific communities. This ensures that the College is best equipped in terms of intellectual guidance when it comes to shaping the young minds of future chemists and scientists.

The academic populace is of two types; the internal and external staff. The internal staff currently consists of seven fulltime senior lecturers working solely for, and dedicated to the betterment and success of the College. They are armed with all the knowledge and experience that comes out of well-earned Doctorates from reputed universities from the United States, United Kingdom, etc.

Internal Staff also consists of two university professors on sabbatical leave, experienced scientists of renowned intellect and competence whose reputation is well established not only in Sri Lanka, but overseas as well. The entirety of the academic staff at the College is thoroughly trained in methodological teaching, learning assessment and being actively involved in the process of building scientific intellect in budding minds.

Of the external staff, the College focuses on having a wide variety of specialists from different fields of chemistry. Some of them are specialized lecturers from state and non-state universities, other well-known institutes like ITI and SLINTEC, and industrial experts in various fields. They provide a plethora of avenues that go into great depth hand in hand with expert guidance for the students to choose from.

In addition to senior academics, there are over thirty Graduate Teaching Assistants serving the CCS. The major roles of academic support staff is to assist senior lecturers in laboratory and PASS sessions.
Undergraduates in the College of Chemical Sciences have the opportunity of pushing the boundaries of human knowledge and understanding by engaging in research related to various fields in chemistry that bear the potential of creating a better future. Like for instance, the purpose of furthering the wellbeing of the society, providing solutions to various crisis in Sri Lanka, and also to contribute to the vast knowledge amassed by the scientific community.

The research work conducted focus on a selected variety of areas allowing students to choose the aspect of chemistry that they feel most enthusiastic. Research areas include Molecular Organic Frameworks (MOF), Surface Chemistry, Water remediation, Agricultural Chemistry, Natural Product Chemistry, Molecular Drug Design, Electrochemical Studies of Corrosion, Applied Analytical Chemistry, Green Nanosynthesis and Environmental Chemistry. Some of these research areas are facilitated by the collaboration of other reputed institutes, for instance SLINTEC, ITI, NIFS and also state and foreign universities. No expense is spared at the funding of such endeavours, and as such, the total allocation per annum, apart from chemicals and other laboratory resources, for undergraduate research alone is about two million rupees.

Postgraduate research, having a total funding of over twenty million rupees, is geared towards enabling students to let lose their thirst for uncovering new knowledge and extending their grasp of newer, and more complex understandings. The active pursuit of such knowledge is not only encouraged, but supported in every way possible, including the ready availability of state of the art facilities, along with knowledgeable and experienced personnel to aid in their operation.

“Research is an avenue I always wanted to select. CCS gave me that wonderful opportunity.”

Dilanka Fernando,
Graduate Chemist (2010)
Doctoral Candidate, Monash University, Australia
Scholarships
The College encourages academic excellence by allocating about one million rupees per annum in the institute budget towards awarding various scholarships to a selected number of students showing exceptional academic performance. Students are encouraged to secure these scholarships from the start of the course, during the Entrance Scholarship Examination, and throughout the four years of study.

Both the College of Chemical Sciences and other parties who wish to see students excel in their academic performance fund and support such scholarships in the hope of creating talented graduates of the highest caliber.

Overall Outstanding Academic Performance
There are three awards for the best overall performance during the entire four years of the Graduateship in Chemistry Programme (GIC), including Laboratory practicals. In addition to the above awards, there are several awards bestowed upon students who show the highest competence in a particular aspect or discipline in chemistry continuously throughout the 4 years of study.

The award that goes to the student who exhibits the most exceptional overall academic prowess is known as the Shireen Jayasuriya Gold Medal, which is the most prestigious commendation that can be awarded to a student pursuing the GIC Programme.

Subject Prizes
Prizes are awarded to students who excel in most of the courses of study offered at the College of Chemical Sciences. The prizes are funded by the Institute and also by donors who are esteemed individuals willing to encourage young minds to reach greater heights.

All Rounder Awards
These awards are presented to undergraduates in recognition of their achievements in academics and extra-curriculars such as sports, aesthetics and other recreational activities. This is to encourage students to participate in activities that would enhance personality and skill while simultaneously improving their knowledge in the discipline of science. The title of ‘The Best All Rounder of the Year’ is presented at the end of the GIC programme to the undergraduate who performs exceptionally well.

Bursaries
We have invested more than two million rupees for the purpose of funding bursaries which are provided to students who are in need of financial aid.

As an educational body that looks forward towards nurturing students, we recognize that sometimes, during the course of a student’s life at the College of Chemical Sciences, misfortunes or very challenging situations may arise. This is where we intend to be steadfast and stand by our students in their time of need by providing any financial support they might require to continue to reach their goals and realize their dream of becoming a fully-fledged graduate.
Career Guidance

College of Chemical Sciences constantly engage to uplift the quality of education that we provide and also the quality of life of student. The career guidance unit of the Institute focuses on rendering help to compete in the corporate world and also to excel in graduate school. Soft skills are a must to an individual. Be it a career as a researcher, chemist or a management trainee that you are willing to follow, presentation skills and public speaking is necessary in order to make a proper first impression and to effectively convey your message to the audience. The Gavel Club of CCS is a club managed by the career guidance unit and an ideal place to improve the aforementioned skills and confidence. Team building, leadership and punctuality are also important qualities that should be instilled in our undergraduates. The career guidance unit hosts CV workshops, mock interview sessions, workshops on higher education opportunities and scholarships and also awareness on what the industry expects from you. At CCS, we hope for our undergraduates to not only excel in the field but also become worthy leaders one day.

“CCS gave me a solid foundation and the necessary impetus to bravely start my career in the Chemical industry.”

Randika De Silva, MBA, MCIM, MSLIM
Graduate Chemist (2009)
Senior Brand Manager, Unilever Sri Lanka Ltd.
Upon successful completion of the GIC programme, many avenues open up to you as a graduate of the College of Chemical Sciences. For instance, you automatically become a lifetime Associate Member of the Institute of Chemistry Ceylon. Depending on one’s academic record, one could directly apply for scholarships to follow Doctorates (PhD) and Master’s (MS) degrees in the UK, US, Australia and other countries overseas.

Other avenues available for students include, reading for an MPhil degree (Research based Postgraduate qualification) in Sri Lanka or to enroll for a Master’s degree (MSc) in Chemistry at any state university in Sri Lanka. In addition to pursuing an academic career in Chemistry, one could alternatively enroll for a Masters’ Degree in other related fields. This would not only let you develop a further more advanced academic knowledge in an area of your liking, but will also help inculcate inter-disciplinary understandings.

If your idea is to join the industry, you could do so as a Chemist or a Management Trainee. This is a great opportunity to broaden your skills and to build on a great future. The College takes pride in having some of its Alumni bearing key roles in various different fields of the industry today. If your goal is to pursue a career as a chemist, prospectus await at myriad avenues including textile, petroleum, pharmaceutical, cosmetic and polymer industries etc. Furthermore, employment opportunities in analytical testing agencies, consultancy services and chemical and instrument supplying services are also available.

If you wish to further build your career, it is also possible for you to pursue a profession in the management or administrative fields. The foundation that you get from GIC, regardless of it been in the field of chemistry, is a valid qualification for you to enroll in an MBA programme or any other postgraduate qualification in the management fields. The cognitive development nurtured in the GIC programme will help you to successfully complete it.

Teaching is a well valued profession. Upon graduation from the GIC programme, one could engage in the teaching profession in various international schools and academic institutions.
Life at CCS is an exuberant experience. As a freshman at our College, you are introduced to the vivid range of events that make ones college life a spectacle in deed. As a freshman, you are warmly welcomed to the CCS family on a special night filled with color called the Fresher’s night, a day where acquaintances can be made with all undergraduates studying at CCS. A sports day is also organized with events to enhance the communication and interaction between the batchmates and senior students.

There are many clubs including the Gavel club, Rotaract club, photography club, the first aid unit which is conjoined with the Saukyadana movement in Sri Lanka, community service projects and many educational associations as well. These clubs help to enhance interpersonal skills and soft skills and also aids in the personality development of students.

Many a multicultural activities celebrating unique festivities take place at CCS. Sinhala and Tamil New Year, Wesak, Ramadan, Christmas and Navarathri are celebrated in style with all students coming together from different walks of life. A bana sermon and an Alms giving to the temple on poya days and a thanks giving mass at the dawn of a New year is also carried out. These activities are focused on reinforcing the bond of friendship and love amongst the student community within the college.

AURA, the biggest talent show at our college, is one of our major highlights. Its a night that brings the talent of all undergraduates studying at CCS onto one platform. Despite the tight schedules of practical and theory courses, our undergraduates manage to dedicate and pool all their creativeness together in order to bring out the aesthetic being within them. It not only builds the student in a cultural and artistic manner, but also improves coordination between the students because they are made to realize that for an event of this magnitude, an equally stupendous amount of sacrifice and teamwork is needed.

If the greatest challenge in life is to travel in pace with time, why not make it a worthwhile and memorable with us at CCS!
There is a wide variety of sports activities available for students to engage in, enabling them to grow as individuals as well as academics. CCS sees that it is vital for students to learn important life lessons such as the ability to accept both victory and defeat with grace, and also learn to work as a team. Not only do students benefit in terms of life skills, but also end up having well balanced, healthy lives.

As an encouragement to students, the College takes pride in having a multitude of sports to choose from. Cricket for example, is popular among the students and there are hardball and softball practices routinely held for not only those who wish to play in earnest, but also to those who like to have some casual fun with the sport of cricket.

CCS enjoys organizing cricket encounters with other educational institutions to let its students gain the experience of competing in tournaments and matches. The annual cricket encounter with IIT is one such instance, giving not only the chance for sportsmen to compete, but a chance for all cricket lovers to meet and witness an excellent sporting event.

Rugby is also well loved, and something of a passion among a good portion of the student populace. One noteworthy feature in this sport is the annual rugby encounter organized by CCS as an inter-level tournament. It acknowledges and allows the participation of both boys and girls in rugby matches. This event is looked forward to every year and organized to enable both participants and onlookers to have the maximum amount of fun while the tournament proceeds.

Badminton is another sport that has made its mark in the student community of CCS. Having had several competitive, and friendly encounters with other academic institutes, the students enjoy having practices on a weekly routine to keep their competitive edge. In addition to such tournaments, the annual inter-level badminton tournament is also organized, which means badminton enthusiasts will always have a place in College.

Karate is practiced by several martial arts enthusiasts in the College, under the guidance and tutelage of a qualified master, giving students the golden opportunity to learn some self-defense skills while also developing a deep sense of self-discipline.

Two more areas of sports and recreation worth mentioning are Football and Basketball. Practices are held routinely for those who wish to join in these sports.
At CCS, you not only witness the wonders of Chemistry, but also discover the talents in you and is groomed to become an allrounder, to experience the melodies of your inner passion.
Role of a Chemist in the Society

Chemical Industries
- Food
- Pharmaceutical
- Leather
- Polymer
- Mineral
- Cosmetic
- Petrochemical
- Agrochemicals
- & Many More

Chemistry Research
- Analytical
- Computational
- Energy & Catalysis
- Material
- Synthesis
- Environmental
- Nano
- Natural Products
- & Many More
**Theory & Practical Courses**

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<tr>
<th>Level 1 – 21 Credits – Core Courses</th>
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<tbody>
<tr>
<td>C 11000 Language Course – Non-credit course</td>
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<tr>
<td>C 11003 Basic Concepts</td>
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<tr>
<td>C 11013 General &amp; Inorganic Chemistry</td>
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<td>C 11023 Principles of Physical Chemistry</td>
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<td>C 11033 Principles of Organic Chemistry</td>
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<tr>
<td>C 11042 Mathematics for Biological Science Students OR</td>
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<tr>
<td>C 11052 Biology for Physical Science Students</td>
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<tr>
<td>C 11063 Mathematical Applications for Chemists</td>
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<tr>
<td>C 11072 Fundamentals of Physics for Chemists</td>
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<td>C 11082 Analog &amp; Digital Electronics for Chemists</td>
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<th>Level 2 – 21 Credits – Core Courses</th>
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<tr>
<td>C 21012 Physical Chemistry</td>
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<tr>
<td>C 21022 Principles of Quantum Chemistry and Molecular Spectroscopy</td>
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<tr>
<td>C 21023 Inorganic Chemistry</td>
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<tr>
<td>C 21032 Organic Chemistry I</td>
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<tr>
<td>C 21062 Organic Chemistry II</td>
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<tr>
<td>C 21042 Titrimetric and Gravimetric Methods in Analysis</td>
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<td>C 21082 Separation Methods and Spectroscopic Applications</td>
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<td>C 21053 Biochemistry</td>
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<td>C 21073 Introduction to Management, Economics and Finance</td>
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<th>Level 3 – 26 Credits – Core Courses</th>
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<tr>
<td>C 31003 Energetics &amp; Kinetics</td>
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<tr>
<td>C 31012 Special Topics in Physical Chemistry I</td>
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<tr>
<td>C 31022 Special Topics in Physical Chemistry II</td>
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<td>C 31033 Advanced Topics in Organic Chemistry</td>
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<td>C 31043 Physical Organic Chemistry</td>
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<tr>
<td>C 31053 Special Topics in Inorganic Chemistry I</td>
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<tr>
<td>C 31062 Special Topics in Inorganic Chemistry II</td>
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<tr>
<td>C 31072 Analytical Chemistry: Instrumental Methods I</td>
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<td>C 31082 Analytical Chemistry: Instrumental Methods II</td>
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<td>C 31092 Environmental Chemistry</td>
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<td>C 31102 Research Methods</td>
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<th>Level 3/4 Optional Courses</th>
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<tr>
<td>C 31313/41313 Analytical Industrial Biochemistry</td>
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<tr>
<td>C 31323/41323 Biochemistry II</td>
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<tr>
<td>C 31333/41333 Chemical Education</td>
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<tr>
<td>C 31342/41342 Further Topics in Environmental &amp; Green Chemistry</td>
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<td>C 31353/41353 Food Chemistry &amp; Technology</td>
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<tr>
<td>C 31363/41363 Fundamentals of Chemical and Process Engineering</td>
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<td>C 31373/41373 Industrial Chemistry &amp; Technology</td>
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<th>Open Days</th>
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Coming to an open day gives you the chance to see our facilities, talk to staff and students and get a taste of life at CCS.

September 1, 2019 (Sunday) 9:30 a.m.  
September 22, 2019 (Sunday) 9:30 a.m.  
October 27, 2019 (Sunday) 9:30 a.m.  
November 24, 2019 (Sunday) 9:30 a.m.  
January 5, 2020 (Sunday) 9:30 a.m.  
Inauguration - January 18, 2020 (Saturday)
List of Lecturers & Examiners (2019 onwards)

College of Chemical Sciences
Dr. U. S. K. Welivwage, BSc, PhD, C.Chem., M.I.Chem.C.
Dr. U. K. Jayasundara, BSc, PhD, M.I.Chem.C.
Dr. D. N. Udukala, BSc, PhD, M.I.Chem.C.
Dr. K. C. Weerasiri, BSc, PhD, M.I.Chem.C.
Mr. J. M. Ranasinghe Banda, BSc, MSc. Eng., C.Eng., C.Chem. F.I.Chem.C.

University of Colombo
Prof. S. A. Deraniyagala, BSc, PhD, C.Chem., F.I.Chem.C.
Prof. M. D. P. de Costa, BSc, PhD, C.Chem., F.I.Chem.C.
Prof. S. Wijesundara, BSc, MSc, PhD.
Prof. Preethi Soysa, BSc, MSc, PhD.
Prof. C. P. D. W. Mathew, BSc, MSc, PhD, C.Chem., F.I.Chem.C.
Prof. R. Wijesekara, BSc, PhD, C.Chem., M.I.Chem.C.
Professor Nalin De Silva, BSc, PhD.
Prof. R. S Dassanayake, BSc, PhD.
Prof. M. S. S. Weerasinghe, BSc, PhD.
Prof. S. R. D. Rosa, BSc, MSc, PhD.
Dr. H. I. C. De Silva, BSc, PhD, C.Chem., M.I.Chem.C.
Dr. T. Thoradeniya, BSc, MPhil, PhD.
Dr. H. H. E. Jayaweera, BSc, PhD.
Dr. P. K. Perera, BSc, PhD.

University of Sri Jayawardenapura
Prof. S. P. Deraniyagala, BSc, PhD, C.Chem., F.I.Chem.C.
Prof. S. S. L. W. Liyanage, BSc, PhD, C.Chem., F.I.Chem.C., M.RSC.
Prof. S. Ekanayake, BSc (Hons), MPhil, PhD, C.Chem., F.I.Chem.C.
Prof. P. P. M. Jayaweera, BSc, PhD, C.Chem., M.I.Chem.C.
Prof. Tilak Fonseka, BA, LLB, MBA, MA, PhD.
Dr. S. D. M. Chinthaka, BSc, PhD, M.I.Chem.C.
Dr. S. Samarasinghe, BSc, MSc, PhD, C.Chem., F.I.Chem.C.
Dr. U. Wijesekara, BSc, MSc, PhD.
Dr. T. Gunasekara, BSc, PhD.
Dr. T. N. B. Elampawala, BSc, PhD.
Dr. K. A. K. Gnanaweera, BSc, MSc, PhD.
Dr. R. S. Jayakody, BSc, PhD, M.I.Chem.C.

University of Kelaniya
Prof. Asoka Pathiratne, BSc, PhD.
Prof. P. A. Paranagama, BSc, MPhil, PhD, C.Chem., F.I.Chem.C.
Prof. N. A. K. P. J. Seneviratne, BSc, PhD, M. I. Chem.C.
Prof. J. A. Liyanage, BSc, PhD, C.Chem., C.Sci., F.I.Chem.C., FRSC.
Dr. A. M. Tissa Amarako, BSc, PhD.
Dr. M. P. Deeyamulla, BSc, PhD, M.RSC.
Dr. W. A. P. J. Premaratne, BSc, MA.
Dr. C. S. K. Rajapakse, BSc, MPhil, PhD.
Dr. Ranjini Amarako, BSc, MSc, PhD.
Dr. A. G. M. J. Gunaratna, BSc, Grad.Chem., PhD, A.I.Chem.C.

Open University of Sri Lanka
Dr. G. Bandarage, BSc, PhD, C.Chem., F.I.Chem.C., C.Phys.
Mr. M. R. M. Haniffa, BSc, MSc, C.Chem., M.I.Chem.C.

University of Ruhuna
Prof. H. M. K. K. Pathirana, BSc, PhD, M.I.Chem.C.
Prof. J. W. Hewage, BSc, PhD.

University of Peradeniya
Dr. D. G. G. P. Karunarathne, BSc, PhD.
Dr. C. S. Kalpage, BSc, PhD.

University of Moratuwa
Dr. B. A. J. K. Premachandra, BSc, MSc, PhD.
Mr. B. H. Sudantha, BSc, M.Phil.
Dr. R. M. D. S. Gunaratne, BSc, PhD.
Dr. S. A. D. T. Subasinghe, BSc, MSc, PhD.
Dr. Mahinsasa Rathnayake, BSc, MSc, PhD.

Kotalawela Defence University
Prof. J. Welihinda, BSc, PhD, C.Chem., M.I.Chem.C.

Sri Lanka Institute of Nanotechnology
Dr. Nuwan De Silva, BSc, PhD.
Dr. Lahiru Wijenayake, BSc, PhD.

Other Visiting Staff
Prof. T. R. Ariyaratna, BSc, PhD.
Prof. K. B. M. Fonseka, BSc, MBA, FCMA, FGMA.
Prof. S. Wimalasena, BSc, MSc, C.Chem., F.I.Chem.C.
Prof. K. A. S. Pathiratne, BSc, MSc, PhD, C.Chem., F.I.Chem.C.
Dr. S. Hewage, BSc, PhD, C.Chem., F.I.Chem.C.
Dr. L.S.R. Arambewela, BSc, PhD, C.Chem., F.I.Chem.C.
Dr. L. M. K. Thilakaratne, BSc, PhD, F.I.Chem.C., C.Chem.
Dr. U. Nishshanka, BSc, MSc, PhD.
Mr. E. G. Somapala, BSc, MSc, C.Chem., F.I.Chem.C.
Mr. S. K. Cyril, BSc, MSc, C.Chem., M.I.Chem.C.
Mr. Amlal Dissanayake, BSc, MSc, PG Dip.
Mr. P.R.K. Fernando, Grad.Chem., MSc, PGD, M.I.Chem.C., M.G.A. SL.
Mr. D. B. N. Perera, Grad.Chem., MBA, CIM, NDIRM, HDBFM.
Mr. Walter Wickramasinghe, BSc, Dip. In Leather.
Mr. Raja Amaratunga, BSc.

External (Foreign) Examiners
Prof. David Smith (University of Bristol, UK)
Prof. P. D. Lickiss (Imperial College of Science, Technology & Medicine, UK)
Dr. Mark E. Wood (University of Exeter, UK)
Payment Structure

Types of Payments in the system are Registration Fee, Refundable Deposit, Tuition Fees (Theory and Practical), Examination Fees and Life Membership fee.

### Registration Fee

<table>
<thead>
<tr>
<th></th>
<th>Levels 1 &amp; 2</th>
<th>Levels 3 &amp; 4</th>
<th>All Levels</th>
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</thead>
<tbody>
<tr>
<td>Early Bird</td>
<td>Rs. 165,000</td>
<td>Rs. 195,000</td>
<td>Rs. 275,000</td>
</tr>
<tr>
<td>Regular</td>
<td>Rs. 190,000</td>
<td>Rs. 220,000</td>
<td>Rs. 325,000</td>
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<tr>
<td>Late</td>
<td>Rs. 205,000</td>
<td>Rs. 240,000</td>
<td>Rs. 350,000</td>
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### Tuition Fee (Theory)

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<th>Levels 3 &amp; 4</th>
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<tr>
<td>Early Bird</td>
<td>Rs. 130,000</td>
<td>Rs. 170,000</td>
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<tr>
<td>Regular</td>
<td>Rs. 165,000</td>
<td>Rs. 220,000</td>
<td>Rs. 330,000</td>
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<tr>
<td>Late</td>
<td>Rs. 180,000</td>
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### Tuition Fee (Practical)

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<tr>
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<th>Section A</th>
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<tr>
<td>Early Bird</td>
<td>Rs. 115,000</td>
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<td>Rs. 250,000</td>
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<tr>
<td>Regular</td>
<td>Rs. 140,000</td>
<td>Rs. 200,000</td>
<td>Rs. 275,000</td>
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<tr>
<td>Late</td>
<td>Rs. 160,000</td>
<td>Rs. 220,000</td>
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### Composite Tuition Fee (Theory & Practical)

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<td>Early Bird</td>
<td>Rs. 400,000</td>
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<tr>
<td>Regular</td>
<td>Rs. 480,000</td>
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<tr>
<td>Late</td>
<td>Rs. 530,000</td>
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### Refundable Deposit

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<th>Regular</th>
<th>Late</th>
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<tbody>
<tr>
<td>Early Bird</td>
<td>Rs. 150,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Regular</td>
<td>Rs. 180,000</td>
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<td></td>
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<tr>
<td>Late</td>
<td>Rs. 200,000</td>
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### Direct Level 3 Entrance

- Registration Fee Rs. 125,000
- Refundable Deposit Rs. 75,000
- Composite Tuition Fee Rs. 150,000

### Payment Deadlines

<table>
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<tr>
<th>Payment Mode</th>
<th>Levels 1 &amp; 2 OR All Levels</th>
<th>Levels 3 &amp; 4</th>
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<tr>
<td>Early Bird</td>
<td>by October 1, 2019</td>
<td>by October 1, 2021</td>
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<tr>
<td>Regular</td>
<td>by January 14, 2020</td>
<td>by November 1, 2021</td>
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<tr>
<td>Late</td>
<td>by March 31, 2020</td>
<td>by December 1, 2021</td>
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Examination Fees (Theory)

Includes an Entrance Fee of Rs. 6,000/= per semester for level 1 & 2, and per credit fee of Rs. 1200/= per semester per level 3 & 4, and per credit fee of Rs. 1300/= per semester.

### Note:

1. Rs. 25,000/= discount will be entitled for Registration Fee to the weekday enrollment.
2. Rs. 50,000/= fee will be applied to change Weekday to Weekend batch.
3. Attractive discounts for full payments as above.
4. Tuition Fees (Theory & Practical) are subject to government taxes.
5. The payments stated above are subject to change.
6. Life membership fee of the Institute of Chemistry is about Rs. 20,000/=.
7. Nominal fee will be charged for convocation.

Graduateship in Chemistry Prospectus, (17th edition)

- Concept and design: Sameera R. Gunatilake and Sahan Jayasingha
- Photography: Sameera R. Gunatilake and Senal Dimuka (Some photographs were downloaded from social media)
- Write-ups: Samadhi Nawalage, Afran Azem, Lakalya De Silva and Udaya K Jayasundara
- Layout and Graphics: Sahan Jayasingha and Yashashri Ranganath
- Front Cover Models: (L to R) Dasuni Dissanayake, Shine Wilson, Janeshta Fernando, Sachin Fernando & Virosha Ariyawansha
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