

150 YEARS OF EXCELLENCE UNIVERSITY OF CALCUTTA

UNIVERSITY WITH POTENTIAL FOR EXCELLENCE AWARDED BY UNIVERSITY GRANTS COMMISSION

INFORMATION BROCHURE

FOR ADMISSION TO POST-GRADUATE COURSES

IN

SCIENCE,
TECHNOLOGY,
AGRICULTURE,
HOME SCIENCE,
&
HUMAN RIGHTS

2006 - 2007

IMPORTANT NOTIFICATION

- Please read the Instructions in the information Brochure carefully and take your decision.
- The Application Form and Information Brochure can be downloaded from the official websire www.caluniv.ac.in The Application Form completed in ass respects will be received against the payment of Rs. 50/- (Rupees fifty only) by C.U. challan. If required, additional forms may be downloaded. However, Rs. 15/- (Rupees fifteen only) is to be paid by C.U. challan for submission of each additional form.
- Forms and Brochure can also be procured from the office of the Secretary, UCSTA, 92, A.P.C. Road, Kolkata 700 019 and 35, Ballygunge Circular Road, Kolkata 700 019 at a cost of Rs. 50/- (Rupees fifty only).
- Rs. 15/- (Rupees fifteen only) is to be paid for each additional form.
- The last date of submission of duty filled application forms will be 25th August, 2006.
- All informations given in Brochure are provisional and subject to change from time to time which will be notified in the Notice Board and in the University website.
- Measures have been taken to make the Information Brochure free from error. However if any
 mistake overlooked please bring to the notice of the Authority. Necessary corrections will be
 made in the Notice Board. Please follow the Notice Board.
- Notice for Admission Test, Interview, Counselling, Selection, Admission etc. and Notice for correction if any will be displayed in Notice Board at concerned Secretary office. Please follow the Notice Board time to time.

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SECTION – I

Historical Overview of the University

Throughout the first half of the nineteenth century the then British rulers of the country were coming to realize the need for establishing modern universities in India, partially in their own interests and partly as a result of the efforts of a small group of liberals within the ruling classes who genuinely wished to spread modrn education among the Indian masses.

In 1845, the Council of Education, which then consisted of F. Millett, James Alexander, C.C. Egerton, Rassomay Dutt, Prosunno Coomar Tagore and Dr. F.J. Mouat, formulated a proposal for the establishment of the University of Calcutta. The University of Calcutta was to consist of a Chancellor, a Vice-Chancellor and fellows, The Governor-general of India was to be the Chancellor and Visitor of the University. There would be four Faculties. The Chancellor, the Vice-Chancellor, and the members of the Faculties were to form a body politic and corporate to be known as the University of Calcutta.

In July 1854, the Court of Directors of the East India Company sent a 'despatch' to the Governor General of India in Council suggesting the establishment of the Universities of Calcutta, Madras and Bombay. In pursuance of the dispatch, the University of Calcutta was founded on January 24, 1857 by the incorporation of an Act of the Legislative Council (Act No. 11 of 1857).

Sir James William Colvile was appointed the first Vice Chancellor of the University of Calcutta. The Lieutenant Governors of Bengal and North-Western Provinces, the Chief Justice of Bengal, the Bishop of Calcutta and members of the Supreme Council of India, all for the time being, were to be ex-officio Fellows of the University of Calcutta. Twenty-nine Ordinary Fellows were also nominated. The Governor-General-in-Council also laid down certain directions regarding the appointment of the Registrar of the University and the examiners for different examinations. The Senate was directed to promulgate the rules proposed by the Committee and approved by the Government and frame such others as might be considered necessary.

The University Act, Act No. 11 of 1857, was passed by the Legislative Council and received the Governor-General's assent on 24 January, 1857. The University of Calcutta was brought into existence even before the Act received the formal assent of the Governor General. The first meeting of the Senate was held on 3 January, 1857. The Vice-Chancellor and twenty-two Fellows were present. The Senate appointed Colonel W. Grappel, Professor of Jurisprudence, Presidency College, as Registrar of the University for two years.

Though the first meeting of the Senate was held on 3rd January, 1857, the University did not immediately come to have a habitation of her own. Towards the end of 1872, at a cost of Rs. 4,34,697, the Senate Hall came into being. It was formally entered by the Senate of the University on 12th March, 1873, on the occasion of the Annual Convocation ceremony, led by the then vice-Chancellor, E.C. Baily and the Chancellor, Lord Northbook.

On 13th March, 1875, Vice-Chancellor Baily remarked in his Convocation Address that time had arrived when the University itself might very property, within its means, assumes, to some extend, actual teaching of the highest character. It was only in 1917, however, that all postgraduate teaching in Calcutta was centralized under the direct and immediate control of the University itself.

Soon after the University had come into the possession of and settled down in its own habitat, an addition of Rs. 3,500 from the surplus of the receipt of the University for the year 1873-74, was made

to the Library Fund, the nucleus of which had already been formed by the donation of Rs. 5000 by Joykissen Mukerjee of Uttarpara. From the closing balance of the financial year 1875-76, an addition of Rs. 1500 was made to the Library Fund. A valuable, collecting of the publications of the Early English text Society was also received as gift during the year. Thus was laid the foundation of the Library, which was today grown into what may be called the University Library system consisting of a Central Libraries in the different University Campuses.

The Hon'ble Justice Gooroodas Banerjee became the first Indian Vice-Chancellor of University of Calcutta in the year 1890. Sir Asutosh Mukerjee was the Vice-Chancellor for four consecutive two-year (1906-1914) and a fifth two-year term (1921-1923). To this day Sir Asutosh remains the most illustrious Vice-Chancellor in the history of this University. It was during his tenure that the University reached a pinnacle of glory as an educational institution of the finest quality.

The University Act of 1904 empowered the University to make necessary arrangements for the instruction of students, and though, most the teaching continued to be imparted in the affiliated colleges, teaching in some post graduate courses started to be organized under University management.

The decade of the 1930's is also significant in the history of the University Shyamaprasad Mukherjee, who became Vice-Chancellor in August 1934, took up the helm of the vessel, which his illustrious father Asutosh Mukerjee had launched on its historic voyage. The Central Library of the University was shifted from the Darbhanga Building to the newly built third floor of the Asutosh Building to accommodate the swelling number of books and readers. Within a few years the Calcutta University Press brought out a large number of books written by a galaxy of distinguished authors on various branches of learning.

In 1934, a proposal was mooted to establish an art gallery and museum in connection with post-graduate studies in Ancient Indian History and Culture. It took shape and form in 1937 when the Asutosh Museum of Indian Art was opened in the Western Hall of the then Senate House. Today Asutosh Museum is one of the richest University Museum in India.

The Calcutta University Act, 1951, came into operation from March 1954 and brought about important changes in the constitution and character of the University. The Act provided for Post-graduate teaching in constituent colleges along with the University colleges. The Calcutta University Act, 1966, which was passed for reorganization of the University, came into force on September 18, 1968.

The Calcutta University Act, 1979, is now governing the University. The Act provides for the recostitution of the University to enable it to function more effectively in the fields of teaching, training and research in various branches of learning and courses of study and for higher education to meet the growing needs of the Society. The C.U. Act, 1979 has ensured democratization of the various authorities of the University. It has given sufficient autonomy to the academic bodies of the University.

Pioneering Role in Nation Building

Very soon after its establishment, the University of Calcutta began to provide the intellectual foundations of Indian nationalism. Since then, over time, the University has played a vital role in the development of India's nationhood not only by spreading progressive social ideas and values but also by establishing the ability of Indian researchers to carry out advanced scientific and technological research and, at the same time, by-discovering the great philosophical, cultural and literary heritage of the country.

A very large number of distinguished names light up the pages of this glorious history. In fact, this number is so large that a complete listing of all these great teachers and researchers and distinguished alumni of the University is virtually impossible.

Yet it is hard to desist from mentioning in this context the names of C.V. Raman, Jagadish Chandra Bose, Prafullachandra Ray, Satyendranath Bose, Meghnad Saha, Sisir Kumar Mitra, Jnanchandra Ghosh, Sarvapalli Radhakrishnan, Sunil Kumar Chatterjee, Surendranath Dasgupta and Nihar Ranjan Roy. Rabindranath Tagore was a visiting Professor at the University of Calcutta for some time. Among the graduates of the University appear such names as Bankim Chandra Chatterjee, Narendranath Datta (Swami Vivekananda), Subhas Chandra Bose and Amartya Sen.

Calcutta University has played a very significant role in science and technology education and research in our country. It has vivid reputation in the field of Physical Sciences, Life Sciences, Information Sciences and Technology Studies. The prizes and valuable contribution of its students and faculties in all sphare of life have always enhanced the brilliance of Calcutta University. The University has produced many Nobel Laureate to serve the kingdom of knowledge and always successful in exploring the talent of its students in the right full manner.

Memorable Events

YEAR	EVENTS
1845	Council of Education of the British Government proposes establishment of a University in Calcutta and forms a committee to draw up a draft plan on similar lines as the University of London for the contemplated University of Calcutta.
1857 (Jan. 3)	The Senate meets for the first time.
1857 (Jan. 24)	Act of Incorporation (Act II of 1857) makes the University a formal body.
1858 (April 24)	Joddu Nath Bose and Bankim Chandra Chatterjee become the first graduates.
1858 (Dec. 11)	The Syndicate starts functioning.
1858	James William Colvile, The first Vice Chancellor, delivers the first Convocation Address.
1861	M.A. Examination held for first time.
1873 (Mar. 12)	University moves to a building of its own (Senate House: designed by the architect Granville)
1882	Kadambini Ganguly and Chandramukhi Basu become the first lady graduate.
1890 (Jan. 1)	Gooroodas Banerjee assumes charge as the first Indian Vice-Chancellor.
1902	Indian Universities Commission formed and the constitution of the senate initiated.
1906 (Mar.31)	Asutosh Mookerjee takes over as the Vice-Chancellor (total 5 terms each of two years, 1906 1914 and 1921-1923).
1907	Jagadish Chandra Bose (Professor of Presidency College) appointed University Lecturer.
1908	University library begins functioning.
1909	Department of Physiology Science established at the Presidency College and Shifted to University College of Science and Technology in 1937.
1912	Department of Pure Mathematics established.

YEAR	EVENTS
1914	University College of Science established at 92, Upper Circular Road with munificent endowments by Tarak Nath Palit and Rashbehari Ghosh. Palit chair in Physics and Chemistry, and Ghosh Chairs in Physics, Chemistry, Applied Mathematics and Botany created, subsequently Ghosh Chairs in Applied Physics and Applied Chemistry.
1914	Department of Chemistry and Department of Botany established.
1916	Department of Physics, Department of Geology and Department of Psychology established.
1916	Prafulla Chandra Ray Joins as the Palit Professor of Chemistry.
1916	Satyendra Nath Bose Joins as a University teacher.
1917	Department of Zoology established.
1920	Department of Applied Chemsitry established.
1920-21	Kumar Guruprasad Singh of Kharia donates for five endowment chairs: Indian Fine Arts, Phonetics (Later on changed into Indian Linguistics and Phonetics), Physics, Chemistry and Agriculture.
1921	Sarvapalli Radhakrishnan joins University as Professor of Philosophy.
1921	Department of Anthropology established.
1925	Department of Applied Physics established.
1937	Asutosh Museum of Indian Art opened.
1937	Rabindranath Tagore addresses Convocation in Bengali.
1941	Department of Geography and Department of Statistics established.
1944	V. L. College established.
1945	Institute of Nuclear Physics, the first of its kind in Asia, founded under the leadership of M.N. Saha.
1947	Chakrabarti Rajagopalacharia becomes first the Indian Chancellor.
1949	Institute of Radio physics and Electronics established.
1954	Ionosphere Field station of the University established in Haringhata.
1954	Department of Agriculture established.
1956	Department of Bio-Chemistry (Science) established.
1963	Departments now in Ballygunge Campus of Science College shifted to the new building (Taraknath Siksha Prangan).
1967	University College of Medicine shifted to 244, Acharyya Jagadish Chandra Bose Road with the establishment of B.C. Roy Post-Graduate Institute of Basic Medical science.
1967	University Experimental Farm of the University College of Agriculture established on a 67 acre piece of land at Baruipur near Calcutta.

YEAR	EVENTS
1969	Department of Applied Psychology established.
1980	Department of Computer Science & Engineering established.
1982	University Health Service starts functioning at Goenka Building.
1982	Department of Chemical Engineering established. Department of Chemical Technology and Department of Plastic and Rubber (now named as Polymer Science and Technology) established by trifurcating the department of Applied Chemistry.
1983	Department of Marine Science established.
1984	Department of Electronic Science established.
1985	Department of Business Management established.
1985	Department of Biophysics, Molecular Biology and Genetics established.
1993	University Computer Centre starts functioning.
1994	Endowment chair in Zoology created out of donation by Sm. Mukul Chaudhuri (Hiralal Choudhuri Professor in Fisheries).
1995	B.C. Guha Professor in Genetic Engineering and Biotechnology, an endowment Chair in the B.C. Guha Centre, created out of donation by Phulrenu Guha.
1996 (Dec.)	Endowment chair in Chemistry created out of donation by Paritosh M. Chakraborti (Partitosh M. Chakraborti Professor in Chemistry).
1999	-M.Sc. Course in Biotechnology introduced.
2000	 M.Sc. Course in Environmental Science introduced. 1 year PG Diploma course in Journalism and Mass Communication introduced.
2001	 –MCA course introduced in the department of Computer Science. –3 year B. Tech. in Information Technology introduced.
2002(11 th Mar)	Calcutta University Placement Cell restructured for offering better job opportunities to students.
2002	 -Institute of Agricultural Science established with the following six new departments: (a) Agricultural Chemistry and Soil Science (b) Agronomy (c) Genetics & Plant Breeding (d) Plant Physiology (e) Horticulture and (f) Seed Science & Technology under the faculty of Agriculture. -M.A./M.Sc. C\course in Human Rights introduced. -M.Sc. course in Bio-Informatics and Genetics introduced.
2004	Applied Physics bifurcated into two departments i) Applied Physics (ii) Applied Optics & Phonetics

YEAR	EVENTS
2005	Calcutta University obtains "The University with potential for Excellence" status from the U.G.C. Chief Minister Sri Buddhadeb Bhattacharya Inaugurated new floor of Dr. B.C. Guha Centre for Genetic Engineering and Biotechnology. TEQUIP Programme started.
2006	Calcutta University Celebrate Post-Centenary Golden Jubliee as 150 years of Excellence. His Excellence Dr. A.P.J. Abdul Kalam, President of India Inaugurate the celebration on 17 th January, 2006 at Science City Auditorium.

Present Achievements

a. NAAC with a FIVE STAR status

In 2001 the University has been accredited by NAAC with a FIVE STAR status

b. Calcutta University Among WORLD'S TOP 500

Every year the Institute of Higher Education, Sanghai Jian-Tong University, China, has been publishing a list of world's top 500 institutions of higher learning (universities, research institutes etc.). The most recent list is; now available on the Internet under the heading "Academic Ranking of World Universities, 2005". University of Calcutta is the only University from India (indeed the only University from the SAARC region) to appear on the list. The other institutions from India on the list are the Indian Institute of Science, Bangalore, and the Indian Institute of Technology, Khargapur. It may not be out of place to mention some important facets that make this ranking more worthwhile. First, the methodology that has been employed to arrive at the ranking ensures that the exercise is almost exclusively focused on the current state of affairs at the Universities and little, if any, credit is given to heritage or past laurels. Secondly, research, as evidenced by publication in world-class journals, has received more attention than any other activity.

- c. Calcutta University among the World's Top 50 Arts and Humanities Universities.
- d. University of Calcutta Recognized by the UGC as a University with Potential for Excellence

In December 2005 the University of Calcutta has been recognized by the UGC as a 'University with Potential for Excellence' (UPE). At present, there are only eight other Universities in the country, which have been given this status.

Calcutta University has been selected by National Project Implementation Unit (NIPU) as the Lead Institute for World Bank funded Technology Education Quality Improvement Programme (TEQIP).

Calcutta University is one of the Asia's largest Universities according to students' strength. There are 65 Post Graduate Department with the capacity of more than 130000 Students. It is spread over in 14 campuses over the city of Kolkata.

Present Position at a Glance

- A. 65 PG Departments 192 Affiliated Colleges
- B. Student Enrolment per year

PG: 5,500 (Approx.)
UG: 100,000 (Approx.)

C. Faculty Strength: 710

D. Research at the University of Calcutta

- (i) Doctoral and Post Doctoral Research
- (ii) Research Centres
- (iii) Research by Faculty members
 - Research Projects
 - Research Publications

i) Research for Doctoral Degree

Ph.D. Programmes in all the 65 PG Departments

Ph.D.Committees have external experts

No. of Ph.D.s

- 162 in 2005
- 189 in 2004
- 167 in 2003
- 124 in 2002
- No. of postdoctoral Fellows: 38

ii) a) Research Centres on UGC Funding under the Special Assistance Programme

- Centres for Advanced Study: 3
 (Radio Physics and Electronics, Chemistry and Botany)
- Departments of Special Assistance: 6
- Departmental Research Support: 6
- COSIST/ASISHH Programme: 1
- DST FIST: 22

ii) b) Research Centres Established with UGC Assistance during the Tenth Plan

- Centre for Social Sciences
- Gandhian Studies Centre

ii) c) Other Research Centres

Centres with funding from agencies other than UGC;

- S.K. Mitra Centre for Space Environment (funding by ISRO)
- Centre for Photonics (funding by DRDO)
- Peace Studies Research Centre (funding by Ford Foundation)
- B.C.Guha Centre for Genetic Engineering & Biotechnology (Endowment Fund)
- S.N. Pradhan Centre for Neurosciences (Endowment Fund)
- Women's Studies Research Centre

ii) a) Research Projects:

- Total No. of Ongoing Research Projects: 266
- No. of Research Projects started in 2005 : 91

iii) b) Publication of Research Papers:

- Total no. of research Publications (including books) during the last 3 years : 4000 (approx).
- No. of Papers published in refereed journals published from outside the University during the last 3 years: 1800 (approx.)

E. Points

• No. of national patents obtained during the last 3 years: 15 (Three of these are also U.S. Patents).

F. Research Collaborations with other Institutions

Institutional-level MOUs with:

- International Rice Research Institute, Philippines.
- Chongbuk University, South Korea.
- Oxford Brooks University

G. Department-level collaboratative Research Projects (22 Nos.)

Examples:

- Boston University
- Max Plank Institute
- Rutherford Appleton Laboratory
- Chinese University of Hong Kong
- University of Brussels
- Humboldt University
- CERN, Geneva
- TIFR
- BARC

Collaboration Proposals

Hamburg University, Germany York University, Canada,

University Campuses

The University has a number of campuses spreaded all over the metropolis and its suburbs. The various departments, both teaching and administrative, located therein are mentioned below:

Asutosh Siksha Prangan

87/1, College Street, Kolkata-700 073.

Darbhanga Building

- Office of the Vice-Chancellor
- Office of the Pro-Vice Chancellor (Academic Affairs)
- Office of the Registrar
- Office of the Controller of Examinations
- Office of the Engineer
- BCW Cell
- Estate & Trust Office

Asuthosh Building

Teaching Departments

- Arabic & Persian
- Bengali Language & Literature
- Commerce
- English
- French
- Hindi
- Languages [Foreign]
- Library & Information Science
- Linguistics
- Pali
- Sanskrit
- Urdu

Administrative Office and Service Centres

- Office of the Secretary, Faculty Councils for Post-Graduate Studies in Arts & commerce, Social Welfare and Business Management
 - C.U. Canteen. Sales Counter

Students Amenity Centre

Chantra Bhavan

Hardinge Building

Teaching Departments

- Film Study Centre
- Journalism & Mass Communication
- Tamil Studies

Administrative Office and Service Centres

- Office of the Registrar (Establishment Section/Meeting Section)
- Manuscript Library

University Campuses

Centenary Building

Administrative Offices and Service Centres

- Office of the Pro-Vice-Chancellor (BA & F)
- Accounts Office
- Asutosh Museum
- Board of Discipline
- Board of Residence
- Cash Section
- Centenary Auditorium
- Central Library
- Office of the University Librarian
- Office of the Inspector of Colleges
- Controllers Department
- Employment Information and Guidance Bureau
- Govt. Audit Department
- Office of the Secretary, Councils for Undergraduate Studies
- Internal Audit Department
- Sports Office

Rashbihari Siksha Prangan

92, Acharya Prafulla Chandra Road, Kolokata-700 009

Teaching Departments

- Applied Mathematics
- Bio Physics Molecular Biology & Genetics
- Bio-Informatics & Bio-Physics
- Chemical Engineering
- Chemical Technology (Ceramic Engineering, Oil Technology, Petroleum & Petrochemical Refinery, Pharmaceuticals & Fine Chemical)
 - Polymer Science & Technology
 - Chemistry
 - Physics
 - Electronic Science
 - Physiology
 - Psychology
 - Applied Psychology

- Applied Physics (Instrumentation Eng. and Electrical Eng.
- Applied Optics and Photonics
- Computer Science & Engineering
- Radio Physics & Electronics
- A.K. Choudhuri School of Information Technology

Administrative Offices & Service Centres

- Office of the Secretary, Faculty Council for Post-Graduate Studies in Science, Engineering and Technology, Agriculture and Veterinary Science
 - Campus Journal Library
 - Electron Microscope Unit
 - Girish Vidyaratna Lane :Annexe of the Department of Radio Physics & Electronics
 - Industry Institute Partnership Cell Placement Cell
 - University Science Instrumentation Centre(USIC)

Taraknath Siksha Prangan

35 Ballygunge Circular Road, Ballygunge, Kolkata-700019

Teaching Departments

- Anthropology
- Biochemistry
- Botany
- Human Rights
- Genetics
- Genetic Engineering & Biotechnology
- Geography
- Geology
- Marine Science
- Microbiology
- Pure Mathematics
- Statistics
- Zoology
- Institute of Environ mental and Atmospheric Science
- Atmospheric Science
- Environmental Science
- Institute of Agriculture Science
- Agronomy
- Horticulture
- Genetics & Plant Breeding

- Seed Science & Technology
- Plant Physiology
- Agricultural Chemistry & Soil Science

Administrative Office

- Office of the Assistant Secretary, Faculty Council for Post-Graduate Studies in Science, Engineering & Technology, etc.
 - Calcutta University Guest House

Hazra Road Campus

51/1, and 51/2, Hazra Road, Kolkata 700 019.

Teaching Department Law

Calcutta University Cash Counter

University Press And Book Depot

48, Hazra Road, Kolkata-700 019.

Sahid Khudiram Siksha Prangan

1, Reformatory Street, Alipore, Kolkata-700 027

Teaching Departments

- Ancient Indian History & Culture
- Archeology
- Business Management
- Education
- History
- Islamic History & Culture
- Museology
- Philosophy
- Political Science
- Sociology
- South and South East Asian Studies Centres
- Centre for Urban Economics
- Ganadhian Studies Centre
- Peace Studies Research Centre
- Women's Studies Research Centre

Administrative Office & Service Centre

- Office of the Assistant Secretary, Faculty Council for the Post-Graduate Studies in Arts, Commerce, Social Welfare and Business Management
 - Campus Library

B.T.Road Campus

56A, Barrackpore Trunk Road, Kolkata-700 050

Teaching Department Economics

V.L.College of Home Science Campus

20B, Judges Court Road, Alipore, Kolkata-700 021

Teaching Department

Department of Home Science

University Health Service

Goenka Hospital, 145, Muktaram Babu Stareet, Kolkata-700 001

Haringhata Campus

Ionosphere Field Station, P.O. Mohanpur, Dist. Nadia

Baruipur Campus

Agaricultural Field Station, P.O. Baruipur, Dist. 24-Pgs(South)

Dhakuria Lake

University Rowing Club

Maidan

University Ground and Tent

SECTION - 2

FACILITIES

University Libraries

The Libraries of Calcutta University consist of the Central Library; two campus Libraries, thirty-nine departmental libraries and two libraries of the advanced centers. The libraries are spread over eight campuses. The Central Library is located in the College Street Campus and is accessible easily *from* all departments of the Campus on *foot*. The University library has a collection of more than eight lakh books. Besides books the eight campuses of the University together possesses more than 2 Lakh volumes of bound Journals, M. Phil and Ph. D. dissertations, proceedings of conferences, reports, maps, standards, patents newspapers, manuscripts, microfilm, CD-ROMs. The departmental libraries serve the academic disciplines bearing their names. The Central Library serves the entire University community. As many as 20 departmental libraries out of 39 have a collection of over 15,000 volumes which includes books, bound journals and non-book material. The Department of Law Library holds over 85,000 volumes in Hard copy. The collection is strong in all aspects with special strengths in legal history and Jurisprudence, business and commercial law, taxation and international business transactions. The department of Law Library's old Journal collection includes works in the fields of history, government and other social and behavioral sciences relevant to legal research.

The University library is subscribing to 795 journal titles, of which 549 are foreign. The Central Library is housed in a nine-storied building. Being in the middle of the city, it is easily accessible *from* all campuses of the university. It has a carpet area of about 80,000 square feet. The library opens from 7 a.m. to 8 p.m. except Saturdays and Sundays when it open still 5 p.m. The library collection is arranged subject-wise. Faculty members are entitled to get 15 books at a time; PG students 2 books, research scholars 5 books and non-teaching staff 2 books. The library provides consultation facilities to outside scholars, teachers and students of the affiliated colleges *for* specific period.

E-Journal facilities are available

The Central library is providing following services:

Reference Service 8 Bibliographic Service 8 Documentation Service 8 Internet Reprographic Service 8 E-mail Seat 8 UGC-NET and Career Guidance Service 8 Lending and Reading Room Service 8 Access to back issues of Journals 8 OPAC 8 Inter-Library Loan

The Central Library houses the collection on each floor as follows:

GROUND FLOOR

- $\bullet \ Property \ Counter \ 8 \ Membership \ Registration \ Section \ 8 \ Library \ Office \ 8 \ Controlling \ Gate$
- FIRST FLOOR
- New Arrival Display * Internet Service *CD-ROM and Library Database *Circulation Section *Acquisition Section
 - Processing Section

SECOND FLOOR

• Reading Room *Microfilm and Reprographic Section *Computer Section under *INFLIBNET programme

THIRD FLOOR

FOURTH FLOOR

*UGC-NET and Career Guidance *Research Block & Teachers Reading Areas * Journal Section

Reference Section *Thesis collection

FIFTH FLOOR

Stack Areas-Bound Journals

SIXTH FLOOR / SEVENTH FLOOR / EIGHT FLOOR / NINTH FLOOR

Stack Areas-Books

Computerization and networking of the Central library has been undertaken under INFLIBNET programme of UGC. The Central Library has started automation of the library activities using SOUL, versatile and user-friendly software from INFLIBNET Centre. The library has its own local Network connected with a Server with terminals inside the library. On Line Public Access Catalogue of the library have databases of books, Journals, Thesis, CD-ROMs and Microfilms.

The following publications are regularly brought out from the library:

Books Plus – Addition list of books * List of periodicals holdings

Central Library at a Glance

Total space in square feet: 79,999.939 square feet

Space for reading room in square feet: 9,999.984 square feet Seating capacity: 415

Number of days the library is kept open in a Year: 332 days in a year including Saturdays and Sundays

Number of hours the library is kept open in a day: 13 hours

Numbers of users per day: 1200 (approx)

Departmental Libraries (Science, Technology, Agriculture, Home Science)

Rashbehari Siksha Prangan

Departmental Libraries

Applied Physics, Applied Mathematics, Applied Psychology, Bio-Physics Molecular Biology and Genetics, Chemical Engineering, Chemical Technology, Chemistry, Computer Science & Engineering, Electronic Science, Physiology, Psychology, Polymer Science & Technology, Radio Physics & Electronics.

The Campus Journal Library is also located in the Campus.

Taraknath Siksha Prangan

Departmental Libraries

Agriculture, Anthropology, Bio-Chemistry including Bio-Technology, Micro-biology, Environmental Science, Botany, Geography, Geology, Marine Science, Pure Mathematics, Statistics, Zoology.

V.L. College of Home Science Campus

Departmental Library Home Science

Hostel Facilities

Limited hostel accommodation are available separately Boys & Girls on the campus and outside. Provision of hostel accommodation to the admitted candidates is subject to availability of rooms and allotment will be made provided a minimum distance of 60 KM from the hometown.

In case of non-availability of rooms, candidates must make their own alternate arrangement.

LIST OF UNIVERSITY HALLS & RECOGNISED HOSTELS

Sl. No.	Name of the Halls	Date of Establishment	Address
	Undergraduate Halls in the Univ		
1.	Rammohan Ray Hall (Attached to City College)	1916 - 24	102, Raja Rammohan Ray Sarani, Kolkata - 700 009
2.	Cermichael Hall (for Mohammedan Students)	1916 - 24	51, Baithakkhana Road, Kolkata - 700 009

Sl. No.	Name of the Halls	Date of Establishment	Address					
	University-Post Graduate Students' Halls:							
1.	P. G. men Students' Hall	March, 1959	49/1, Hazra Road, Kolkata - 700 019					
2.	P. G. Men Students' Hall (Technology)	01.11.1952	35, Ballygunge Circular Road, Kolkata - 700 019					
3.	P. G. Men Students' Hall (Economics)	01.02.1964	165/1, South Sinthee Road, Kolkata - 700 050					
4.	P. G. Men Students' Hall	01.01.1954	24 & 25, Beadon Row, Kolkata - 700 006					
5.	P. G. Men Students' Hall	01.02.1966	1, Vidyasagar Street, Kolkata - 700 009					
6.	P. G. Men Students' Hall	02.08.1982	7, Waliullah Lane Kolkata - 700 016					
7.	Buddhist Students' Hall	July, 1939	4A, Bowbazar Orphanage Lane, Kolkata - 700 012					
8.	P. G. Lady Students' Hall	01.07.1958	Hastings House Compound, Kolkata - 700 027					
9.	P. G. Lady Students' Hall	July, 1941	56 & 58, Mahatma Gandhi Road, Kolkata - 700 009					
10.	Hirnmayee Chhatribhaban	01.04.1967	<i>5312/4A</i> , Hazra Road, Kolkata -700 019					
11.	P. G. Lady Students' Hall		51, Hazra Road, Kolkata - 700019					
12.	Vidyasagar Chhatri Niwas	01.01.1991	Hastings House Compound, Kolkata - 700 027					
13.	Research Scholar's Hostel	01.08.1996	92, Acharyya Prafulla Ch. Road, Kolkata - 700 009					
	P. G. Lady Students' Hall							
1.	V. L. Mitra Lady Students' Hall	01.12.1946	66, Vivekananda Road, Kolkata - 700 006					
2.	U. G. Lady Students' Hall	01.01.1945	17, Radhanath Bose Lane, Kolkata - 700 006					
	[University Law College Students' Hall:							
1.	University New Law College Hostel (Hardinge Hostel)		14, Bidhan Sarani, Kolkata - 700 006					

University Health Services

The university has been maintaining a Board of Health to take care of health problems of the students of the University and its affiliated colleges. The board has set up a clinic named as Goenka Hospital Diagnostic Research Centre for rendering all kinds of medical assistance to the students, staff of the University. Further four peripheral students' health clinic are situated at the following centre:

- Chatra Bhawan : College Street campus
- Bangabasi College
- University College of Science & Technology: Rajabazar Campus
- University College of Science: Ballygunge Campus

Presently the following facilities are available at the Goenka Hospital for the students, teacher & non-teaching staff and also for the general people at a very nominal payment.

General Medicine, Chest Medicine, Pediatrics, Cardiology, Neurology, Dermatology, Psychiatry, General Surgery, Orthopedic Surgery, E.N.T., Ophthalmology, Dentistry, Facilities for X-Ray, Facilities or Pathological tests, Facilities for Ultra-Sonography with Doppler

Sports Facilities

- A) Following facilities are available for conducting the various Games and Sports at Calcutta University Premises only
 - 1. Calcutta University Ground at Maidan for Football / Cricket
 - 2. Calcutta University Ground at Maidan for Kabaddi / Volleyball /Kho Kho etc.
 - 3. Calcutta University Rowing Club for Rowing / Kho-Kho / Table Tennis / Kabaddi.
 - B) Various Inter-Collegiate Tournament/Championships are also conducted.
 - 1. Football (Men)
 - 2. Aquatics (Men & Women)
 - 3. Table-Tennis (Men & Women)
 - 4. Kabaddi (Men & Women)
 - 5. Yoga (Men & Women)
 - 6. Kho-Kho (Men & Women)
 - 7. Volleyball (Men & Women)
 - 7. Volleyour (Wen & Women)
 - C) Participate various Inter-University Tournaments/Championships
 - 1. Football (Men)
 - 3. Aquatics (Men & Women)
 - 5. Kabaddi (Men)
 - 7. Yoga (Men &Women)
 - 9. Kho-Kho (Women)
 - 11. Volleyball (Women)
 - 13. Hockey (Men)
 - 15. Cricket (Men)
 - 17. Tennis (Men)
 - 19. Quash (Men)
 - 21. Gymnastics (Men & Women)

- 8. Badminton(Men & Women)
- 9. Hockey (Men)
- 10. Athletics (Men & Women
- 11. Cricket (Men)
- 12. Rowing (Men & Womwn)
- 13. Tennis (Men)
- 2. Football (Women)
- 4. Table-Tennis (Men & Women)
- 6. Kabaddi (Women)
- 8. Kho-Kho (Men)
- 10. Volleyball (Men)
- 12. Badminton (Men & Women)
- 14. Athletics (Men & Women)
- 16. Rowing (Men & Women)
- 18. Chess (Men &Women)
- 20. Boxing (Men)

Facilities in Campus

Students' Store:

In each campus there is a students' cheap store, which provides books, and other stationeries to the student.

Students' Canteen:

Canteen Facilities for students are also available.

Campus Xerox Centre:

Xerox Centre is available in each campus for the students in a economical rate.

Public call centre:

Each campus has a public call centre.

Internet facility:

University has 2Mbps leased Internet facilities with a high end LAN for students in each campus.

University Computer Centre:

University Computer centre is situated at Rajabazar Science College Campus. It possesses a highly equipped laboratory Total Number of 100 Desktop Computer of latest make with necessary software is available. All PCs are connected through LAN with original Windows 2000 Servers and other high-end computers. ALL PCs are connected with Internet through 2Mbps Leased Line. There is also a well equipped Laboratory and LCD and Overhead Projector.

The Computer Centre of the University plays a very helpful role for students for their study. It also helps the research scholars and teachers in their academic and research acitivity. It provides some very essential courses for students and provides E-mail and Internet facilities for Teachers, Students and Research Scholars in each department throughs a Local Area Network.

SERVICES

The Industry Institute Partnership Programme Cell

Calcutta University-Industry Institute Partnership Programme Cell was constituted by The Syndicate of this University in June 1996 with the Vice-Chancellor as the Chairman and the Secretary, UCSTA as Convener.

The Operationals guidelines for the Cell as well as modus Operandis of Patent rules under the University were finalized in the recommendation of a sub-committee duly constituted by the Cell with Faculty were finalization of aforesaid rules, the cell had started its functioning.

And successfully executed certain CUIIPP activities such as counseling Human Resources Developments, collaborative activities, Product development, Technology Certification etc.

Some of the Organisations with whom CUIIPP has collaborative activities:

1) Kusum Product 2) TISCO 3) Oil Tek SDW 4) Webel Media 5) M.N. Dustur & Co. 6) Central Mechanical & Research Inst. (Durgapur) 7) Aircraft Telecom. Maintaince Agency 8) Chandra Chem. Enterprice Ltd. 9) Burnes Standard Co. Ltd. 10) Indian Institute of Environmental Science 11) Central Glass & Ceramic Research Institute (Jadavpur) 12) WWF-India 13) Non Destructive Test Appliances (P) Ltd. 14) West Bengal Pollution Control Board 15) Crea-tive Research Group 16) Society for Eco-friendly Development 17) Nangalia Hydro-Carbon Ltd. 18) Educational Consultant India Ltd. 19) G. D. Pharmaceutical (P) Ltd. 20) Folk & Tribal Culture 21) Kanchan Oil Industries Ltd. 22) EMBEE Forest Products (P) Ltd. 23) Envirochek 24) Albert David Ltd. 25) Coats of India Ltd. 26) Wetland International 27) Asian development banks (Sundarban) 28) Asia pacific Commodities Ltd. 29) Sishu Sahityo 30) Shere Agro Bio Fertilizer Creative Organisation 31) Synergy & Network 32) Sun Biotechnology Ltd. 33) Good Earth Environ care 34) Integrated Fire Production (P) Ltd. 35) G.B. Panth Social Science Institute (All-Ahabad). 36) Bharat Bio-Tech. Hyderabad 37) BIOCON, Bangalore 38) Chem Gen Pharma.

The Placement Cell

The Placement Cell of the University organizes Industry Institute Interaction Programmes each year in association with CUIIPP for the purpose of providing the students with industrial exposure. A large number of Industrialists and Professionals are invited every year to meet the students and interact with them about the essential requirements of the job market.

The Placement Cell is headed by a Professor-in-Charge. Secretary UCSTA is the ex Officio Placement Officer. He maintains communication with the employers and arranges campus recruitments for students each year. Each Department also has a teacher in Charge of placement affairs.

List of companies in which students have been placed through the Placement Cell

1) Tata Consultancy Services 2) Cognizant Technology Solution Inida Pvt. Ltd. 3) Tata Elaxis Ltd. 4) Wipro Technologies 5) Sasken Communications Technology Ltd. 6) Syntrel India Ltd. 7) Dabur India Ltd.s 8) Wacker Silicones 9) Relience Telecom Ltd. 10) GKB Rx Lens Pvt. Ltd. 11) Indian Army 12) Aluminus Software Ltd. 13) Satyam Computer Servise Ltd. 14) VXL Technologies Ltd. 15) Sarang Infotech & Software Ltd. 16) The West Bengal Power Development Corp. Ltd. 17) Syngene International Pvt. Ltd. 18) Tega Industries Ltd. 19) Nelco Ltd. 20) Tata Refecat 21) Burger Paients 22) Jubliant Organisation Ltd. 23) Accentury India 24) Haldia Petrochemical 25) Essar Oil Ltd. 26) Asian Paints (India) Ltd. 27) Mechino-Baseball India Ltd. 28) Inspira Software 29) Alstom Ltd. 30) Crompton Greaves Ltd. 31) Metalogic System Pvt. Ltd. 32) Research Engineering Ltd. 33) Webfil Ltd. 34) Usha Comm. Ltd. 35) Skeytech Solution Pvt. Ltd. 36) Hidustan Lever Research Centre 37) Glaxo Smithikline Pharmaceutical Limiteds 38) Hutchisons Telecom East Ltd. 39) H & R Johnson (India) Ltd. 40) Orrisa Cement Ltd.s 41) Somany Pilkiongton Ltd. 42) Orient Abrasives Ltd. 43) International Ferrite (I) Ltd. 44) Central Glass & Ceramic Research Institute 45) Bharat Refractories Ltd. 46) Matrix Infosystems 47) Chembioteck 48) Indian Aluminium Company Ltd. 49) ABP Pvt. Ltd. 50) SIEMENS Ltd. 51) Forbs Marshall 52) IBM.

University Science Instrumentation Centre (USIC)

University Science Instrumentation Centre started From 1978, with the objective that it would give central services for sophisticated instrument. USIC has one Central work-shop which renders services to all the department of the Calcutta University fors fabrication of different instrument and fitting of

gadgets. New Liquid Nitrogen facility was set up which supplies liquid nitrogen to both the Science College Campus Laboratories, other Universities and Institutions. Analytical instruments such as uv/vis and AAS-100 spectrometer, the dissecting Microscope with celtrum vacutip. Edwards Vacuum Coater and a old Transmission Electron Microscope are running and revenue is being earned from those instruments. A number of workshop-cum-training courses are organized and there are two-ongoing research projects. There is a scheme for annual maintenance of computers and its peripherals in USIC to serve the different C.U. Departments.

The following facilities are available:

- Atomic absorption Spectrometer AAS-100 with FIAS & FDL is working and it is under Central Facility.
- UV VIS Spectrophotometer is working and giving services to students and researchers.
- Edwards Vacuum Coater 306 is working and giving services to for ancillary work of Electron Microscope.
- Liquid Nitrogen Plant is running and production of Liquid Nitrogen is going on.
- There is a well-equipped Central Workshop for fabrication work.

COMMUNITY ACTIVITIES

Calcutta University inspires and helps the students to be involveds in community activities when he/she is in campus students of the University are very much involved with extracurricular and community activities in campus with a leadership of Calcutta University Student's Union (CUSU).

Calcutta University Students' Union organizes various social activities like blood donation camp, collection of money for relief and to help flood affected people etc.

Every year many cultural and sports programme are organized by students. CUSU welcomess new students by a ceremonial fresher's welcome namely "PARICHAY" in each year. Annual cultural festival "CAMPUS" along with various students' performance, cultural eventss is organized. Both Indoor and Outdoor sports competition are also organized by CUSU.

Calcutta University Students' Union (CUSU) is India's biggest student's union concerned with more than 13,000 members. All the campuses have separate autonomous students' union bodies and a Central Standing Committee CUSU is the highest authority. The students' Union co-operate University with a progressive attitude in planning of student's academic development. From Syllabus to study material, developmental planning and research and placement prospects of student's are regularly are regularly reviewed and monitored.

Every year an Election of General Council is held.

The Class representatives represent the CUSU to Teacher-Student (TS) Committee of each department, which plans students' academics matter of each department of the University.

CAMPUS WISE SUBJECTS

RASHBEHARI SIKSHA PRANGAN

92, A. P.C. Road, Kolkata - 700 009

2 Year M.Sc. Courses: Physics, Chemistry, Applied Mathematics, Physiology, Electronic Science, Computer & Information Science, Biophysics & Molecular Biology, Bio-informatics & Biophysics, Psychology, Applied Psychology.

3 Year B. Tech. Courses: Chemical Engineering, Chemical Technology (Ceramic Eng., Petrochemicals & Petroleum Refinery, Oil Technology, Pharmaceuticuls & Fine Chem. Tech.), Polymer Science & Technology, Radio Physics & Electronics, Information Technology, Intrumentation Engineering, Electrical Engineering, Optics & Opto Electronics, Computer Science & Engineering.

Professional Courses: 3 Years M. C. A.

2 Year M. Tech. Courses: Chemical Engg., Ceramic Engg., Oil Technology., Petrochemicals & Petroleum Refinery Engg., Pharmaceuticals & Fine Chemical Technology, Polymer Sc. & Technology, Radio Physics and Electronics, VLSI Design, Computer Sc. and Engineering, Instrumentation Engineering, Electrical Engineering, Optics & Optoelectronics, Information Technology.

3 Years 6 Semister, M. Tech. Everning Courses:

Electrical Engineering (Electrical Power), Instrumental Engineering and control.

TARAKNATH SIKSHA PRANGAN

35, Ballygunge Circular Road

Kolkata - 700 019

2 Year M.Sc. Courses: M.Sc. in Applied Geology, Zoology, Botany, Genetics, Anthropology, Biotechnology, Microbiology, Human Rights, Plant Physiology, Genetics & Plant Breeding, Horticulture, Agronomy, Seed Science & Technology, Agricultural Chemistry & Soil Science, Geography, Statistics, Biochemistry, Environmental Science, Pure Mathematics, Marine Science, Atmospheric Science.

V.L. COLLEGE OF HOME SCIENCE

20 B Jodges Court Road

Kolkata - 700 027

2 Year M.Sc. Courses : Home Science in (Food and Nutrition), Home Science in (Human Development), 1 year Diploma in Home Science.

TECHNOLOGY COURSES

Faculty of Technology

	urses Tech. (3 Years)	Abbreviation	Code	No. of Seats	Eligibility
<u> </u>					
	Chemical Engineering*	CE	01	40	B.Sc. with Honours in
B)	Chemical Technology		02	10	Chemistry with Physics and
	i) Ceramic Engg.	CRE	03	10	Mathematics as pass subject
	ii) Oil Tech.	OT			for the courses (A.B.C)
	iii) Petrochemicals and Petroleum Refinery Engg.,	PPRE	05	10	
	iv) Pharmaceuticals and Fine Chemical Tech.)	PFCT	05	10	
C)	Polymer Science and Tech.	PST	06	30	
D)	Radio-Physics & Electronics	RPE	07	42	B.Sc. with Honours in Physics and with Honours in Electronics (C.U.).
E)	Information Technology	IT	12	20	B.Sc. with Honours in Electronics and two general (pass) subjects out of Physics, Chemistry, Mathematics, Electronics.
					B.Sc. Honours in Electronics and two general/pass subjects out of Physics, Chemistry, Mathematics and Computer Science.
					B.Sc. with Honours in Physics and two Genl/Pass Subjects out of Electronics, Chemistry, Mathe- matics and Computer Science.
F)	Computer Sciences & Engg.	CSE	08	40	B.Sc. with Honours in Physics and Mathematics as General Pass subject.
					B.Sc. with Honours in Computers Science. B.Sc. with Honours in Mathematics (C.U.) and Physics/Statistics/Computer Science as one of the General (Pass) Subjects.B.Sc. with Honours in Statistics (C.U.) and Physics / Mathematics / Computer Science as one of the Genl/Pass Subjects.
G)	Electrical Engineering	EE	09	20	B.Sc. with Honours in Physics with
H)	Instrumentation Engg.	ΙΕ	10	20	Mathematics as one of the General (Pass) Subjects for the courses G & H.

Courses	Abbreviation	Code	No. of Seats	Eligibility
B. Tech. (3 Year)				
I) Optics & Optoelectronics in	00	11	15	B.Sc. with Honours in Physics with Mathematics as one of the General (Pass) Subjects. B.Sc. with Honours in Electronics
				(C.U.) with Physics as one of the General (Pass) subjects.
PROFESSIONAL COURSE				
I) 3-Year M.C.A. A.K. Choudhury School of Information Technology.	MCA	13	20	Honours graduates should have at least 55% marks in the honours subject. Preferably they should have any two of the following as pass subjects: Physics, Mathematics, Computers Science, Statistics and Electronic., 3 years graduates (major and general), preferably having an appropriate combination of the following subjects — Physics, Mathematics, Computers Science, Statistics, Electronics should have at least 60% marks in the aggregate. Engineering graduates should have at least 60% maks in the aggregate. All applicants must have Mathematics at the 10+2 level as one of the subjects with minimum 50% marks in Mathematics. (Admission through Joints Entrace for Computers Application (JFCA) and for through appropriate admission test conduct by the University.

^{*}Indicates Semister course credit system

SCIENCE COURSES

Faculty of Technology

Subject Wise Eligibility for Application

Courses	Abbreviation	Code	No. of Seats	Eligibility
M.Sc./M.A.				
A) Physics	PH	21	70	B.Sc. with Honours in Physics
B) Chemistry	СН	22	70	B.Sc. with Honours in Chemistry
C) Applied Mathematics	AM	23	44	B.Sc. with Honours in Mathematics
D) Pure Mathematics	PM	24	70	B.Sc. with Honours in Matehmatics
E) Psychology	PS	25	34	B.Sc. with Honours in Psychology and Honours in any other subject with Psychology as one of the General (pass) subjects.
F) Applied Psychology	APS	26	34	B.Sc. with Honours in Psychology
G) Physiology	PL	27	39	B.Sc. with Honours in Psychology
H) Zoology *	Z00	28	70	B.Sc. with Honours in Zoology
I) Botany	BOT	29	50	B.Sc. with Honours in Botany
J) Anthropology	AN	30	28	B.Sc.with Honours in Anthropology
K) Geography	GG	31	120	B.Sc. with Honours in Geography
L) Statistics	ST	32	35	B.Sc. with Honours in Statistics/B.Stat.
M) Microbiology*	MI	33	15	B.Sc. with Honours in Microbiology
N) Computer & Information Science	CIS	34	30	B.Sc. with Honours in Computer Science
O) Electronic Science	ES	35	25	B.Sc. with Honours in Electronics/ Physics.

- P) Applied Geology :*
- AGL Code: 36 SEAT: 28
- i) B.Sc. with Honours in Geology from Calcutta University.
- ii) B.Sc. with Honours in Geology from other Universities with first/Second Class.
- iii) 3 years B.Sc. Genl/Pass with Geology and Mathematics as the combination subject in the U.G. level. Applicants must have 55% or aboves in aggregate in B.Sc. Exam.
- iv) 3-year B.Sc. with Honours in Physics or Chemistry and Mathmaticss as one of the Genl/Pass subjects. Applicant must have 50% or above in respective Hons Subject.
 - Category (iii & iv) will have to undergo a Common Admission Test. The Syllabus of the admission test be the same as B.Sc. General Course of C.U. The detailed syllabus will be available in the Dept. of Geology, Notice Board.

Q) Bio-Chemistry:*

BC

Code: 37

SEAT: 60

B.Sc. with Honours in Chemistry / Biochemistry.

B.Sc. with Honours in Zoology, Botany, Physiology, Microbiology (for C.U. Students only) Chemistry
as one of the General (Pass) subjects is essential at the under Graduate level. And should have 60% marks
in aggregate at the 10+2 level.

R) Marine Science: MS

Code: 38

SEAT: 28

B.Sc. Honours in Chemistry/Biochemistry and Hons. in Zoology/Botany/Geology/Geography/Physiology/Microbiology with Chemistry as one of the General (Pass) subjects.

S) Bio-Physics Molecular Biology: BMB

Code: 39

SEAT: 14

At least 55% marks in B.Sc. Honours in Physics/Chemistry/Zoology/Botany/Physiology/Biochemistry/Microbiology or equivalent and at least 60% marks in each of the Physics, Chemistry, Mathematics and Biology at the (10+2) level.

T) Bio Information & Bio-Physics: BIB

Code: 40

SEAT: 6

At least 55% marks in B.Sc. Honours in Physics/ Chemistry/Zoology/Botany/Physiology/Biochemistry/Microbiology or equivalent and at least 60% marks in each of the Physics, Chemistry, Mathematics and Biology/Statistics at the (10+2) level.

U) Bio-technology:*

ВТ

Code: 41

SEAT: 10

B.Sc(Honours) in any life science subjects, Physics, with Chemistry as one pass subject; B.Sc(Honours) in Chemistry/Biochemistry having a minimum marks of 55% in honours course, Bachelor in Agricultural Science, B.Tech in Biotechnology, M.B.B.S and having secured at least 60% marks in Biology, Mathematics, Chemistry and Physics at (10+2) level with at least 55% marks in each of these papers will be eligible to sit for an admission test.

V) Genetics :*

GN

Code: 42

SEAT: 14

B.Sc. with Honours in Agriculture, Anthropology, Botany, Zoology, Chemistry, Biochemistry, Microbiology, Physics or Physiology, with Chemistry as one of the Pass subjects, having a minimum marks of 55% in honours course and having secured at least 60% marks in Biology, Mathematics, Chemistry and Physics with at least 55% marks in each of these papers at (10+2) level will be eligible to sit for an admission test. The candidates with M.B.B.S will be also eligible.

Common Admission Test Fees Rs. 150/- for a) Bio-Technology and b) Genetics.

W) Environmental Science:

ENV

Code: 43

SEAT: 15

At least 55% marks in B.Sc. with Honours in a Science subject with Chemistry as one of the General (Pass) subjects with 60% marks at (10+2) level Candidates will have to appear for an admission test in basic knowledge of environmental science covering syllabus of Physical and Life Science at U.G.level.

Common Admission Test Fees Rs.150/- for a) Environmental Science and b) Atmospheric Science.

X) Atmospheric Science:

AS

Code: 44

SEAT: 15

At least 55% marks in B.Sc. with Honours in a Science subject with Chemistry as one of the General (Pass) subjects with 60% marks at (10+2) level Candidates will have to appear for an admission test in basic knowledge of environmental science covering syllabus of Physical and Life Science at U.G.level.

Common Admission Test Fees Rs.150/- for a) Environmental Science and b) Atmospheric Science.

* Indicates Semister course credit system.

Institute of Agricultural Science

Faculty of Agriculture

M.Sc. (Ag.)

Courses	Abbreviation	Code	No. of Seats	Eligibility
A) Plant Physiology*	PP	61	10	B.Sc. Honours in Botany/ Agriculture
B) Genetics & Plant Breeding*	GPB	62	10	B.Sc. Honours in Agriculture/Botany (Preference will be given to B.Sc. Agricultural Graduates).
C) Horticulture*	НТ	63	10	B.Sc. Honours in Horticulture/ Agriculture/Botany (Preference will be given to First Class Honours Graduates in B.Sc. Horticulture/ Agriculture)
D) Agronomy*	AG	64	10	B.Sc. Honourss in Agriculture
E) Seed Science & Technology*	SST	65	10	B.Sc. Honours in Agriculture
F) Agriculture Chemistry & Soil Science.*	ACSS	66	20	B.Sc. Honours in Chemistry/ Agriculture

^{*} Indicates Semister course credit system

(Detailed information is available in a separate brochure available at the Institute of Agricultural Science, 35, B.C. Road, Kolkata - 700 019 at a cost of Rs. 50/-)

SECTION - 7

Faculty of Home Science

Courses	Abbreviation	Code	No. of Seats	Eligibility
M.Sc./M.A.				
A) M.Sc. in Home Science (Food & Nutrition) course	FN	71	35	Honours Degree (10+2+3) in Food & Nutrition/Physiology/Chemistry. Bio-Chemistry/Food Science of Food Technology
B) M.A./M.Sc. in Home Science (Human Develo- pment) Course	HD	72	35	Honours Degree (10+2+3) in Human Development/Psychology/Sociology/Home Science/Education Regular Honours Graduate in Food & Nutrition and Human Development of current year will get first preference.
C) 1-year Diploma in Home Science course	DHS	73	60	Graduate from a recognized University

For admission of students of other Universities first class Bachelor Degree (10+2+3) pattern is must.

HUMANRIGHTS

Human Rights concepts is a dynamic one which will find expanded expression and constantly cover new areas as human society continues to evolve to higher levels of development. The original content of philosophy of fundamental freedom was limited in the main to civil and political rights of the individual, often referred to as "first generation" rights. The expansive nature of the concept of human rights clubbed with the realizations that without guaranteeing economic, social and cultural rights, full enjoyment of civil and political rights was not possible led to the inclusion of economic, social and cultural rights, popularly described as "second generation" rights.

The concept of human rights in its expanding comprehension, has now traveled to encompass what are called "third generation" rights which include right to self determination, right regarded as belonging to peoples rather than individuals, right tos sovereignty over natural wealth and resources of the country and rights to developments as well as rights of disavantaged groups to special protection. Thus the road traveled by human rights movement has been historic and impressive.

The human rights study programme is designed for academicians, educators, practitioners and generals students interested in human rights issues, and opened to all national.

Courses	Abbreviation	Code	No. of Seats	Eligibility
M.A. Human Rights	HR	80	15	 i) Bachelor Degree ii) Proficiency in English iii) Good experience/strong interest in human rights and social issues. iv) Other qualifications related to human rights will be an added consideration.

The admission of the candidates will be on the basis of a written admission test. Admission Test Fee = 150/-



Procedure of Application

In some cases a student may apply for two or more courses if eligible as per eligibility criteria (see Sec .4,5,6,7,8 P. 23-28)in a single Application Form. In such cases the candidate must state his / her order of preference.

Category of Application Form

- 1) Honours Graduates in Physics may apply for admission in Physics, Electronic Science, Electrical Engineering, Instrumentation Engineering, Optics & Optoeletronics, Radiophysics & Electronics, Computer Science & Engineering and Information Technology.
- 2) Honours Graduates in Electronics may apply for admission in Electronic Science, Radio physics & Electronics, Optics & Optoelectronics and Information Technology.
- **3**) Honours Graduates in Computer Science may apply for admission in M.Sc. in Computer and Information Science, B.Tech. in Computer Science and Engineering and Information Technology.
- **4)** Honours Graduates in Chemistry may apply for admission in Chemistry, Biochemistry, Chemical Engineering, Polymer Science and Technology, Chemical Technology (Ceramic Eng., Petrochemicals

- & Petroleum refinery, Oil Technology, Pharmaceuticals & Fine Chemical Tech.), Agricultural Chemistry & Soil Sc. and Marine Science.
- 5) Hons Graduates in Psychology may apply for admission in Psychology and Applied, Psychology.
- **6)** Honours Graduates in Mathematics may apply for admission in Pure Mathematics, Applied, Mathematics and Computer Science & Engineering.
- 7) Honours Graduates in Physiology may apply for admission in Physiology, Biochemistry and Marine Science
- 8) Separate Application form with order of preference to be used for
 - (a) Biophysics Molecular Biology and Genetics
 - (b) Bio-Informatics and Biophysics,
- 9) Graduates in Agriculture may apply for admission in Agriculture in any of the six streams of Agriculture. i) Agronomy ii) GPB, iii) SST, iv) Horticulture, v) Plant Physiology, vi) Ag. Chem. & Soil Sc. (see Sec. 6 P. 27)
- **10**) Honours Graduates in Botany may apply for admission in Botany, Biochemistry, Marine Science and Agriculture (for courses (i) G.P.B. (ii) HORTICULTURE (iii) PLANT PHYSIOLOGY).
- 11) Honours Graduates in Microbiology may apply for admission in Microbiology, Biochemistry and Marine Science
- 12) Honours Graduates in Zoology may apply for admission in Zoology, Biochemistry and Marine Science
- 13) Honours Graduates in Statistics may apply for admission in M.Sc. Statistics and B.Tech. Computer Science & Engineering.
- 14) Honours Graduates in Geology may apply for admission in Applied Geology and Marine Science
- 15) Honours Graduates in Geography may apply for admission in Geography and Marine Science
- 16) Honours Graduates in Biochemistry may apply for admission in Biochemistry and Marine Science
- 17) Separate Application form with order of preference to be used for
 - (a) Biotechnology
 - (b) Genetics.
- 18) Separate Application form with order of preference to be used for
 - (a) Environmental Science and (b) Atmospheric Science.
- 19) Separate application form to be used for Anthropology
- 20) Separate application form to be used for Human Rights
- 21) Separate Application form with order of preference to be used for
- a) Home Science (Food & Nutrition) b) Home Science (Human Development) c) Diploma in Home Science.

Issues of Application Forms

Applications should be made in prescribed **Form** obtainable along with **Information Brochure** from **Secretary Office**, **92**, **A.P.C. Road**, **Kolkata 700009** and **Secretary Office 35**, **Ballygunge Circular Road**, **Kolkata - 700 019**, at a price of Rs. 50./-(Rupees fifty only) and Rs.15/-(Rupees fifteen only) is to be paid for each additional form..

The application Form and Information Brochure can be downloaded from the official **website www.caluniv.ac.in** The Application Form completed in all respects will be received against the payment of Rs.50/- (Rupees fifty only) by C.U. Challan at C.U. Cash Counters if required, additional forms may be down loaded. However, Rs.15/- (Rupees fifteen only) is to be paid by C.U. Challan for submission of each additional form.

SECTION - 11

Submission of Application Forms:

Application forms of the **Categories 1,2,3,4,5,6,7 & 8** (as stated in Sec. 9 P. 28) are to be submitted along with attested copies of marksheets (*B.A.lB.Sc.* Part-I & Part-II, H.S. M.P./eqv) and other testimonials in the **office of the Secretary, 92, Acharyya Prafulla Chandra Road, Kolkata - 700 009**

Application forms of the **Categories 9,10,11, 12,13,14,15,16,17,18,19 & 20** (as stated in Sec. 9 P. 29) are to be submitted along with attested copies of marksheets (*B.A.lB.Sc.* Part-I & Part-II, H.S. M.P./eqv) and other testimonials in the **office of the Secretary, 35, Ballygunge Circular Road, Kolkata-700 019**

Application forms of the **Category 21** (as stated in Sec. 9 P. 29) for M.Sc. in Food & Nutrition & M.Sc. in Human Development to be submitted along with attested copies of marksheets (*B.A.lB.Sc.* Part-I & Part-II, H.S. M.P./eqv) and other testimonials in Office of the Secretary, **V.L. College of Home Science**, **20B**, **Judges Court Road**, **Alipore**, **Kolkata - 700 027**.

Marksheets in original should be shown during the submission of forms.

Information Brochure in Original must be shown at the time of submission for receipt.

Please paste one self-singed stamp size photograph on each application form

Please bring **two stamp size Photographs** for each admission test.(if applicable)

Physically Handicapped applicants must enclose an attested copy of Certificate of disability from competent authority and mention the word "**PH**" on the top of application form for admission.

Scheduled Caste/Scheduled Tribe candidates should write "SC/ST" on the top of the application form and enclose an attested copy of SC/ST Certificate.



SELECTION PROCEDURE

ADMISSION RULESS

The following candidates are eligible to apply for admission

- 1. C.U. Honours graduates of the current year.
- 2. C.U. Honours graduates of the preceding year.
- 3. 1st class honours graduate or 1st class graduate with single major/single main subjects of other Indian Universities of the (10+2+3) pattern. Candidates passing Honours/Major Courses in Science with first class in undergraduate levels from Indira Gandhi National Open University, Netaji Subhas Open University and the Distance Education Programme of other Universities in West Bengal.
- 4. Honours Graduate in Agriculture of other Indian Universities are eligible for Agriculture.
- 5. Geology as Pass / General subject of C.U. and Non-C.U. is also eligible for Applied Geology.
- 6. Admission is strictly in order of merit, judged on the basis of marks secured in Honours subjects. In case of a tie, the aggregate of marks in general subjects are taken into consideration. However, in some courses there are admission test and/or interviews.
- 7. Selection of C.U. Honours candidates of the preceding year will be done according to merit provided that their marks are not less than the lowest marks of current year candidates admitted. However, the number of such candidates admitted should not cross 5% of the total seats in the subject concerned.
- 8. Candidates from other Universities will be selected through interview.
- 9. Physically handicapped candidates must produce a certificate from a medical expert specified by the University.
- 10. For Scheduled Caste and Scheduled Tribe candidates 22% and 6% of total number of seats will be reserved, respectively for all subjects. A Scheduled Caste or Scheduled Tribe student getting admission should obtain marks in the previous qualifying examination in the relevant Honours subject not lower than that obtained by the last candidate admitted from the general category by more than 25%.
- 11. **Selection Procedure for admission to a) Bio-Physics Molecular Biology b) Bio-Informatics** & Bio-Physics: While preparing the Merit List of Selected candidates, 40% weightage will given to the aggregate of marks of the four subjects Physics, Chemistry, Mathematics & Biology at the (10+2) level and 60% weightage will be given to the marks obtained in the B.Sc. Honours subject.
- 12. **Selection Procedure for admission to i) Biotechnology and ii) Genetics** will be based on a written. Examination of one hour duration wherein the students will have to answer questions drawn from Biology, Mathematics, 'Chemistry and Physics at the Higher Secondary Level and questions from contemporary scientific events. The total marks will be 40. The questions would be of objective type and of equal value.

The final selection of the candidates for Biotechnology and Genetics would be based on a total of 100 of which marks obtained at (10+2) level and honours course will be calculated as a fraction taking total marks to be 20(10+2) level +40(B.Sc. Hons.) + 40 (admission test).

13. Selection Procedure for admission to Atmospheric Science

The eligible candidates are required to appear in a Aptitude Test before final selection. The aptitude test will be based on a written examination of one hour duration wherein the candidates will have to answer questions drawn from Physics, Chemistry, Mathematics at (10+2) level and questions from reasoning and contemporary scientific events. The total marks will be 100. The questions will be of objective type.

The final selection of the candidates for Atmospheric Science will be based on a total of 100 [50% marks from B.Sc. (Honours) + 50% marks from Aptitude test]. A counseling of the candidates eligible for the M.Sc. Course in Atmospheric Science will be arranged for final selection of 15 candidates.

14. Selection Procedure for admission to Environmental Science:

The admission test for Environmental Science will be based on a written examinations wherein the students will have to answer from Basics of Environmental Science, Lifes Sciences and Physical Sciences. The final selection of the candidates for Environmental Science would be based on summing up of 50% of the marks obtained in the major subjects at the honours level and 50% of the marks obtained at the selection test.

- 15. **Selection Procedure for admission in Applied Geology:** a) B.Sc. Hons. with Geology from C.U. on marks basis b) B.Sc. Hons. with Geologys from other University on the basiss of Interview. c) for **category (iii)** students of eligibility criteria 60% weightage will be given to the marks obtained in Geology in B.Sc. and 40% weightage of the marks obtained in the admission test. d) for **category (iv)** students of eligibility criterias 60% weightage will be given to the marks obtained in the respective Hons. Subject in B.Sc. and 40% weightage of the marks obtained in the admission test.
- 16. **Selection Procedure for admission in Human Rights**: 20% weightage will be given on the marks obtaineds in (10+2) level, 30% weightage will be given on the marks obtained in graduation level, 50% weightage will be given on the marks obtained in the admission test. Besides those with Human Rights background / experienced will gate 10 marks extra (additional marks).
- 17. Reservation of Seats
- A. SC/ST: 22% for SC and 6% for ST.
- B. NON CU: Maximum 5% of the total number of seats
- C. Physically handicapped: 3%s of the total number of seats.
- 18. Admission Test

Admission test will be taken for admission in

- 1. (a) Biotechnology and (b) Genetics
- 2. Environmental Science
- 3. Atmospheric Science
- 4. Human Rights
- 5. Geology

TESTFEES

For SL. No.1 common Test Fee Rs. 150/-; SL. No. 2 & 3 common Test Fee Rs. 150/-; SL.No. 4 .Test Fee Rs.150/- SL.No.5 Test Fee Rs.150/-

19. Interview will be taken for admission

1. For other University candidates for all courses

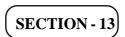
20. Counseling will be held for admission in

1. Biotechnology, 2. Genetics, 3. Mol-Bio. & Bio-Physics, 4.Bio-Informatics & Bio-Physics, 5. Environmental. Science 6. Atmospheric. Science

Termination of Studentship

A student who is admitted to any post graduate course of study and who remains absent from classes for fifteen days at a stretch or intermittently for a total of thirty days during the first two months of his admission will be debarred from continuing his/her studies and his/her name will be struck off the rolls. Fees submitted by the student at the time of admission will be forfeited.

Note: After the provisional admission a student for appearing the yearly examination of the P.G. Course should have at least 65% of attendance in classes.



Publication of Lists

The date of admission tests and the subsequent merit lists will be displayed in the Notice Board of the Office of the Secretary, at 92, A.P.C. Road & 35, B.C. Road. No intimation will be sent to any individual candidate.

List of **selected candidates** will be displayed in the office of the Secretary Office at 92, Acharya Prafulla Chandra Road, Kolkata - 700 009 and Secretary Office 35, Ballygunge Circular Road, Kolkata - 700 019. For Home Science Secretary Office at V.L. College of Home Science, 20B, Judges Court Road, Alipore, Kolkata - 700 027.

No communication shall be sent to any individual candidate. The date of interview and admission for C.U. & Non-C.U. candidates for the various P.G. Courses and the date of publication of selection list will be notified on the Notice Board on the day following the last date of receiving application forms for admission.



Fees Structure

For all courses

Admission Fee	Rs. 100.00
Session Charge per year Athletic Fee	Rs. 10.00
Union Fee	Rs. 10.00
Magazine Fee	Rs. 10.00
Student Aid Fund	Rs. 10.00
Students' Health Home	Rs. 4.00

Library Fee per year Rs. 200.00

Laboratory Fee per month Rs. 60.00

For M.A./M.Sc. Courses in i) Applied Geology ii) Zoology iii) Botany iv) Anthropology v) Statistics vi) Geography vii) Biochemistry viii) Pure Mathematics ix) Marine Science x) Applied Mathematics xi) Physics xii) Chemistry xiii) Psychology xiv) Applied Psychology xv) Physiology xvi) Electronic Science xvii) Computer Science xviii) Home Science.

Tutions Fee per month Rs. 100.00

For M.A./M.Sc. Geography Computer Fee Rs.1000.00 per year.

For M.Sc. Courses in i) Biotechnology ii) Genetics iii) Biophysics Molecular Biology iv) Bioinformatics & Biophysics v) Environmental Science vi) Atmospheric Science vii) Six departments of Institute of Agricultural Science.

Tution Fee per month Rs. 500.00

For B. Tech Courses in i) Chemical Engineering ii) Chemical Technology iii) Polymer Science & Technology iv) Applied Physics v) Applied Optics & Photonics vi) Computer Science & Engineering viii) Radio Physics & Electronics.

Tution Fee per month Rs.200.00

For B. Tech Course in Information Technology

Tution Fee per month Rs.3000.00

For M.C.A. Course

Tution Fee per month Rs.3000.00

For M.A in Human Rights Course

Tution Fee per month Rs.1000.00

Cash Deposition

At Rajabazar Campus Bank of Borada C.U. Extension 1st Floor

At Ballygunge Campus C.U. Cash Counters at Law College, Hazra Road, Gr. Floor

At College Street Campus C.U. Cash Counter, Centenary Building, Gr. Floor

At the time of Admission 6 months Tution Fee & Lab. Fee along with all annual charges to be deposited.

P.G. Autonomous Courses in different U.G. Colleges

Students seeking admission to Autonomous P.G. Courses in Colleges affiliated under C.U. should contact the respective Colleges and procure Application Form from the colleges & submit separate application to the College according to their requirement.

List of P.G. Autonomous Courses in different Colleges given below. Few more courses are under process.

BotanyZoology

Presidency College Presidency College
Barasat Govt. College Moulana Azad College

Bethune College Dinabandhu Andrews College Scottish Charge College Bidhan Nagar Govt. College

Vidyasagar College

GeographyBangabasi CollegePresidency CollegeNaihati R.B.C. College

Bethune College

Lady Brabourne College Environmental Science

Asutosh College

Physics Presidency College

Presidency College

Narendrapur Ramkrishna Mission Chemistry

Presidency College

Microbiology Scottish Church College

Acharya Prafulla Chandra College Narendrapur Ramkrishna Mission

Bidhan Nagar Govt. College

Bijoy Garh Jyotish Ray College Molecular Biology Rastra Guru Surendra Nath College Presidency College

Lady Brabourne College

Mathematics Applied Geology

Presidency College

Belur Ramkrishna Mission Vidyamandir

Computer Science

St. Xaver's College

Barrackpore Rastraguru Surendranath College

Office Hours:-

Monday - Friday

10.00a.m. to 17.30p.m.

All Communication should be addressed to:

The Secretary,

Faculty of Science, Technology and Agriculture,

University of Calcutta

92, A.P.C. Road, Kolkata - 700 009

West Bengal, India.

Telephone: - (033) 2350-8386/6387/6396/1397/1014/

1857/9937/2352/0052Fax:-91-33-2351-9755

Email:-secretaryucsta@caluniv

SECRETARY OFFICE

At 35, Ballygunge Circular Road

Kolkata - 700 019

Tele Phone No. -(033) - 24615445/4959/4981

Fax No. -91-033-2476 4419.

SECRETARY OFFICE

At V.L. College of Home Science

20B, Judges Court Road

Alipore, Kolkata – 700 027.

033-2479 5594 / 2449 1840

University of Calcutta

College Street Campus

87/1 College Street

Kolkata – 700 073.

 $033 - 2241\ 0071\ /\ 4984\ /$

Fax No. -91-033-2241-3222

Cash Deposition

At Rajabazar Campus Bank of Borada C.U. Extension 1st Floor

At Ballygunge Campus C.U. Cash Counter at Law College, Hazra Road, Gr. Floor

At College Street Campus C.U. Cash Counter, Centenary Building.