

THE UNIVERSITY

THE BENGAL ENGINEERING AND SCIENCE UNIVERSITY, SHIBPUR, ESTABLISHED AS **Calcutta Civil Engineering College**, way back in **1856**, with the idea of introducing engineering education in the country, has long and glorious past. In the year **1920**, the college was renamed as **Bengal Engineering College, Shibpur**. Till 1992, it was a constituent college of the Calcutta University and has been offering PG Courses in Engineering since **1954**. In recognition of its service to the nation for all these years, the college was elevated to the status of a **Deemed University in 1993** and the then Honorable President of India, Dr. Sankar Dayal Sharma formally inaugurated the University on **March 13, 1993**. "Science" as a discipline was very much integral to the teaching curricula of the Institution even during the late 19th Century. This tradition is being carried on, now more explicitly with the introduction of post-graduate degree courses in Basic and Applied Sciences since 2000. From **1st October 2004**, the Institute was further elevated to the status of a State University and was renamed as **Bengal Engineering and Science University, Shibpur. On July 13, 2005**. Dr. A. P. J. Abdul Kalam, Hon'ble President of India, formally inaugurated the University.

THE CAMPUS

The University has a beautiful green campus covering an area of nearly 49 hectares on the northern bank of the river Hoogly, adjacent to the famous Indian Botanic Garden and is 20 minutes drive from the heart of the city of Kolkata. The Institution building, accommodation for staff and students, campus amenities and services are the main components of the university.

- (c) The Workshop complex is housed partly in the premises of the heritage building and partly in the adjoining building. The total area of the workshop complex is about 8,500 square meters.
- (d) The M.N. Dastur block and A. K. Seal hall also house some of the academic and administrative departments.

UNIVERSITY BUILDING

The University building consist of the following :

- (a) The main university building covering a total floor space of about 22,000 square meters is a four stored building with a central corridor. Most of the academic departments, department of Human Resource Management, Office of the Dean of the faculty and the Examination office are located in this building.
- (b) An eight storied Science and Technology building with a carpet area of 13,000 square meters has newly been constructed to accommodated the expansion facilities of existing and upcoming departments. Most of the university administrative offices and the Vice-Chancellor's office are located here.

ACCOMMODATION FOR STUDENTS AND STAFF

The university, with a student population of more than 2500, has 14 hostels including two for girls. However, in campus residence is optional for PG Students and accommodation of all UG Students in the hostels are not guaranteed. The university also provides accommodation for a sizeable number of faculty members and other categories of staff within the campus.

AMENITIES

Besides university building, students' hostels, staff quarters and various student and staff activity centre, the campus has the following amenities:

- (a) The University Guest House and Centenary Alumni Building

THE VISION

The vision of the University is to be one of the best ten excellent engineering and science universities of the country, committed to transforming India to a developed nation and partnering in the realization of the Developed India Vision 2020, through development of world-class engineers and scientists.

The university functions as a research-intensive university whose prime areas of activity are creation of knowledge and dissemination of knowledge in an environment of research which ensures that teaching and learning are conditioned by the latest research, and the nation is endowed with skilled manpower of the highest quality. These are being achieved with the help of highly qualified faculty members, highly motivated students supported by state-of-the-art laboratories and substantial publications on regular basis.

- (b) The Hospital with outdoor and indoor treatment facilities under the supervision of medical officers.
- (c) The Staff Recreation Centre - staff common room, professors' common room, etc.
- (d) The Institute Hall - a multipurpose auditorium
- (e) B. E. College Model School from KG to Higher Secondary level
- (f) A well equipped Gymnasium
- (g) Well maintained Sports Fields
- (h) A Students' Canteen
- (i) Campus-wide Networking
- (j) A Bank with ATM counter
- (k) A students activity centre to carry out activities like photography club, drama club etc

HEALTH SERVICE

The university has a hospital to cater to the needs of the campus inmates with medical officers other than required supporting staff. Besides, the hospital has an ID Ward to effectively isolate students suffering from infectious diseases such as chicken pox, mumps, measles etc. Outdoor treatment is available in two shifts: morning and afternoon except Sundays. Serious cases are

generally transferred either to any city hospital or to any city hospital or to the students health home, Kolkata, the university having university membership for the latter. The university hospital provides 24 hours ambulance service.

SERVICES & MANAGEMENT

The university is provided with, uninterrupted power supply from the Calcutta Electric Supply Corporation. Water supply is provided by the Howrah Municipal Corporation. In addition, the University has its own captive generation plant and also water supply sources. There are three agencies which look after the maintenance of various services in the Campus: the Public Works Department (Maintenance) with an Assistant Engineer-in-charge for maintenance of all buildings and roads, the Electrical Wing of the P.W.D. with a Sub Assistant Engineer-in-charge to look after the maintenance of electrical services and a Public Health Engineering Department with a sub-Assistant Engineer-in-charge for maintenance of water supply and sewage disposal services.

For looking after the security of the campus and maintenance of the compound, there is an Estate Office.

GENERAL INFORMATION

**Information regarding Admission to the Full-time 4 semester Master of Science (M. Sc.)
Course at Bengal Engineering and Science University, Shibpur for the session 2011-2012.**

Departments & Programmes	Special Paper(s)	Elective Paper(s)	Proposed intake during 2011-2012 Total = 25				Required Qualification
			GEN	SC	ST	PC	
<u>PHYSICS</u> Master of Science in Physics	*Materials Physics	* Applied Optics * Computational Physics * Physics of Semiconductor Devices	16	06	02	01	i) B.Sc. Hons. or equivalent in Physics from a recognized Indian University. ii) 55% marks in Hons. or equivalent (45% SC/ST candidates) subject with Mathematics as one of the subsidiary subjects
<u>CHEMISTRY</u> Master of Science in Chemistry	*Physical Chemistry *Inorganic Chemistry *Organic Chemistry	* Non - conventional Energy * Polymer Chemistry * Medicinal Chemistry	16 04 [#]	06 01 [#]	02	01	i) B.Sc. (Hons.) or equivalent in Chemistry from a recognized Indian University. ii) 55% marks in Hons. or equivalent (45% SC/ST candidates) subject with Physics and Mathematics as subsidiary subjects
<u>MATHEMATICS</u> Master of Science in Applied Mathematics	-----	* Solid Mechanics * Operational Research, Optimization & Information Theory * Mathematical Biology	16	06	02	01	i) B.Sc. (Hons.) or equivalent in Mathematics from a recognized Indian University. ii) 55% marks in Hons. or equivalent (45% SC/ST candidates) subject
<u>Earth Sciences</u> Master of Science in Applied Geology	*Sedimentology and Basin Analysis *Metamorphic Petrology *Environmental Geology *Palaeontology *Geohydrology	-----	16	06	02	01	B.Sc. (Hons.) or equivalent in Geology from a recognized Indian University. Or B.Sc. (Hons or equivalent in any subject with 55% (45% SC/ST candidates) marks in Hons. and Geology as a subsidiary subject with 55% (45% SC/ST candidates) marks from a recognised Indian University.
<u>SCHOOL OF COMMUNITY SCIENCE & TECHNOLOGY</u> Masters of Science in Food Processing & Nutrition Science	-----	* Nutritional Biochemistry * Microbial Enzyme Technology	16	06	02	01	i) B.Sc (Hons) or equivalent in Chemistry/ Physiology/ Microbiology/ Biochemistry/ Food and Nutrition Science / Genetics from a recognized Indian University. ii) 55% (45% SC/ST candidates) marks in Hons.or equivalent Subject. iii) Chemistry as one of the Subsidiary subjects. in B.Sc. iv) Mathematics must be a compulsory subject in H.S.

For candidates domiciled out side West Bengal as per UGC-SAP guideline. These seats are not transferable to student within the state of West Bengal.

DEPARTMENT OF PHYSIC :

The department of Physics has a century old past and has come through the era of revolutionary thoughts in the world of physics to the present century of technological revolution. As far back in 1926, Prof. Satyendra Nath Bose and Prof. Meghnad Saha, the then post graduate students of Calcutta University, used to come to this department to study original works of Max. Planck and Albert Einstein. Our library was so rich even at that time under the able leadership of Prof. Bruhl. They also used to do their M.Sc. practical in the laboratory of physics department. An unforgettable name in the history of the department is Prof. S.S. Boral who initiated the course on Electronics and Telecommunications which itself finally branched out to be one of the advanced engineering department of the university. Our department can justifiably feel proud of eminent teachers like Prof. P.K. Chattopadhyay, Prof. B.R. Gupta, Prof. N.C. Mukherjee, Prof. M. Mitra and others who taught the undergraduate engineering students of B.E. College and made a strong base for their further studies. Our present faculty members are also faithfully tracing their paths.

The year 2000 was a landmark for our department when the M.Sc. course in Applied Physics was introduced. New faculty members started joining the department, having expertise in modern thrust areas of physics and related technology. The areas of research are as follows.

- Nuclear structure and nuclear astrophysics
- High energy physics
- Quantum field theory at finite temperature and density
- Synthesis & characterization of thermoelectric nanomaterials and composites
- Magnetic properties of materials
- Characterization of Fuel cells & its components
- Preparation & characterization of oxide glass by sol-gel route
- Spectroscopic investigation on rare earth and transition metals in search of LASER materials.
- Fluorescence and phosphorescence study of rare earth materials.
- Design and optimization of optical fibers for dense WDM system.
- Nonlinear pulse propagation through single mode optical fibers.
- Atomic Physics in Plasmas, Laser-atom interactions.
- Spectroscopy of confined quantum systems, Many-body techniques in atomic physics.
- Silicon nanostructure based : Light emitters, Detectors, Microcavities , Sensors.
- Processing and characterization of electroceramic materials used as capacitor dielectrics, sensors and actuators etc.

Experimental as well as theoretical works in several fields of physics are undertaken in the department in collaboration with other research institutions to create a rich environment of advanced research. During the last five years, in addition to both UG & PG teaching, the faculty members have contributed excellent research publications in international journals of repute and international conference proceedings. A considerable number of students are working in several research projects towards their PhD degree. Many of our students are engaged in scientific research and jobs in various premier research institutions of India, such as SINP, IACS, TIFR, BARC, IPR, CGCRI etc.

PROFILE OF THE DEPARTMENTS

ONGOING RESEARCH PROJECTS :

Sl.	Title of the Project	Funding Agency
1.	<i>Accelerator And Radiation Based Collaborative Research Scheme CRS Project Using DAE Facilities: Title: Study of shape coexistence in ^{153}Ho and few-valence particle nucler around ^{146}Gd.</i>	UGC-DAE CSR, Kolkata Centre
2.	<i>Fiber optics Title: Studies on dispersion managed fiber and waveguides in linear and nonlinear domain</i>	DST, Govt. of India
3.	<i>Nanomaterials Title: Synthesis & Characterization of Nano particle of Bismuth Telluride & its One dimensional Composite with Conducting Polymer.</i>	DST, Govt. of India
4.	<i>Development of Phosphoric Acid Gel Electrolyte Matrix and Study of its Effect on Performance of Fuel Cell. (in collaboration with J.U)</i>	DST, Govt. of India
5.	<i>Expert system based Statistical Analysis of Experimental Data on performance and endurance of phosphoric acid fuel cell: Development of performance indices and neuro-fuzzy rules. (in collaboration with J U)</i>	DRDO (CARS)
6.	<i>Opto-electronic properties of nano-structured porous silicon (in collaboration with SMSE, BESU)</i>	DST-NSTI

DEPARTMENT OF CHEMISTRY :

Keeping pace with the present global industrial scenario, the four semester Applied M.Sc. course in Chemistry aims at satisfying newer demands of academia and industries. Each final semester post-graduate student is assigned with a project under the supervision of specific departmental a faculty member. The post-graduate curriculum is a unique blend of fundamental chemistry and its applications to diverse engineering sciences. In fact the step is aimed at making the students conversant with present scenario of fundamental and applied research.

The Chemistry Department with its glorious past envisages stronger bonding between Science & Technology, particularly in the emerging areas. During the last five years, besides association with both UG & PG teaching, the faculty members have produced outstanding research publications, around 300 in refereed National and International journals and at present 35 NET/GATE scholars have been working under various schemes for their Ph.D. degree in the Department. The Department has successfully completed two AICTE – MODROBS projects and has been awarded with the DST-FIST project in 2003 and UGC-SAP (2009-14) project. The Department of Chemistry has been identified as Research-intensive Department and a number of sophisticated instruments have been installed in the department to augment its research facilities.

At present the faculty members are involved in frontier areas of research which include Theoretical and Computational Chemistry; Electrochemistry & Corrosion; Fuel Cell and Photo-electrochemical Solar Cells; Molecular Recognition & Organic Synthesis; Coordination & Bioinorganic Chemistry; Thin Film & Solar Photo-voltaic; Synthetic Organic & Organo metallic Chemistry; and Carbohydrate Chemistry.

PROFILE OF THE DEPARTMENTS

ONGOING RESEARCH PROJECTS :

Sl.	Title of the Project	Funding Agency
1.	<i>Studies on metal thio-and selenocarboxylates: Precursors for metal sulphide/selenide nanomaterials.</i>	UGC
2.	<i>Molecular recognition in chemical reactions and in the development of synthetic chiralreceptors and fluorescent sensors</i>	CSIR
3.	<i>Design and Synthesis of Chiral Receptors for Asymmetric Recognition– Chiral Fluorescent Sensors for Asymmetric Recognition</i>	DST
4.	<i>Enhancement of Functional Property of N3-based Dye Sensitized Solar Cell by use of Conducting Polymers and Surface Plasmon Resonance of Metal Nano-particles</i>	DST - SERI
5.	<i>Development of Carbon Nano Tube (CNT) supported catalyst for Direct Ethanol Fuel Cell (DEFC)</i>	DRDO-CARS
6.	<i>Development of thin film CdS/CdTe heterojunction solar cell</i>	AICTE
7.	<i>Synthesis, structural studies and reactivities of some manganese and vanadium complexes with oxygen, nitrogen and sulfur ligands.</i>	CSIR
8.	<i>Electron transfer and spectroscopic properties of some ruthenium and rhodium complexes with oxygen, nitrogen and sulfur donor ligands</i>	UGC
9.	<i>Study of Copper, Ruthenium and Rhodium Complexes of some Biologically Active Ligands</i>	AICTE
10.	<i>Nanosopic Pt-based electro-catalysts on nafion template for application in Direct Alcohol Fuel Cells.</i>	DST SERC (Womens Scientist scheme)
11.	<i>Trandem azaisobenofurans formation-Diels Alder reactions : Applications to the synthesis of biologically active aromatic heterocycles</i>	CSIR
12.	<i>Development and Applications of Intruder Free Multi-reference Perturbative and non-perturbative Formalisms</i>	DST-SERC
13.	<i>Development and applications of theoretical models to study anisotropic diffusion and transport phenomena in some complex systems</i>	CSIR
14.	<i>The Design, Synthesis and Binding Characteristics of Fluorescencet Receptors for some Biologically Important Substrates and their Possible Applications as Fluorescent Sensors</i>	UGC
15.	<i>MORE Chemistry for less pollution : Application for the detection of toxic metals pollutant and biologically active substrates by using artificial photo-responsive receptors</i>	DST
16.	<i>Studies on development of cheap and efficient binary and ternary compound semiconductor – conducting polymer composite thin films for their potential applications in photoelectrochemical solar cells.</i>	DST SERC (FAST Track scheme)
17.	<i>Preparation and characterizations of nano-porous zinc oxide / dye composite thin-films for dye-sensitized solar cell</i>	UGC (Minor)

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ONGOING RESEARCH PROJECTS :

Sl.	Title of the Project	Funding Agency
18.	<i>Relativistic study of the excited /ionized states of heavy atoms using coupled cluster based linear response theory.</i>	DST SERC
19.	<i>Bioinspired Oxidation Catalysis with Iron and Copper Complex: Structural, Magnetic and Reactivity Studies</i>	DST SERC (FAST Track scheme)
20.	<i>Lanthanides-Based Metal Organic Frameworks (MOFs): Studies on Structure, Photoluminescence and Gas Storage Behavior</i>	CSIR
21.	<i>Design, Synthesis and Studies of Optoelectronic Properties of Stilbenoid dendritic Compounds with Heteroaromatic Core</i>	UGC
22.	<i>"Molybdenum cofactor (Moco): Total asymmetric synthesis of Compound Z (and Dephosphocompound Z), Form B, Urothione and synthetic studies on Moco (isolated from human body)"</i>	DST

DEPARTMENT OF MATHEMATICS :

Since the inception of B. E. College the Department of Mathematics earned a glorious heritage of conducting research activities in various fields of Pure and Applied Mathematics. The faculty members are very much engaged in their research work in a wide range of research activities. 26 research scholars have been awarded Ph.D. degree in last five years out of which 12 research scholars have been awarded Ph.D. degree in the year 2010-11. This year 3 research scholars already have been awarded Ph.D. degree from this Department. Besides of teaching in M.Sc. (Applied Mathematics), the Department also undertakes teaching of Mathematics, including Statistics, Operations Research, Numerical Analysis, Computational Techniques etc. to undergraduate and postgraduate students in various branches of Engineering and Architecture.

The present faculty members of the Department have been carrying out research in different branches of Pure and Applied Mathematics which include fuzzy systems, classical elasticity, thermo-elasticity, micro-polar elasticity, fracture mechanics, maximum entropy models, mathematical and statistical theory of life testing and reliability, fuzzy optimization, quantum mechanics, relativity and cosmology, special functions, mathematical ecology, mathematical modeling in biology and delay systems, neural network, non-linear dynamics, non-linear data analysis, fluid dynamics etc. Over 135 research papers have been published by the faculty members of the department in last five years. At present 42 research scholars are working in various fields of Mathematics in the Department, out of which 17 are registered and 25 are enrolled for Ph.D.

ONGOING RESEARCH PROJECTS :

SI	Title of the Project	Funding agency
1.	<i>A study relating to orbits of operators in fixed point and allied problems</i>	CSIR

DEPARTMENT OF EARTH SCIENCES :

Bengal Engineering and Science University and the subject Geology possess a century old relationship. Many eminent geoscientists have offered their teaching and research expertise to uphold the department to the present status. The Department of Geology has started to offer independent post-

PROFILE OF THE DEPARTMENTS

graduate courses in geology after its separate identity as a science department since 2005. **The 'Department of Geology' has been renamed as the 'Department of Earth Sciences' in 2011.** Department has received financial support from DST, Govt. of India under FIST programme, 2009. The department is offering postgraduate courses with a syllabus at par with other established and reputed institutes in India. In the curriculum, the department has emphasized on the exposure of the students towards the emerging and important aspects which are at this moment globally challenged. Students are being trained in classroom as well as in the field by permanent and eminent visiting faculties of national and international repute in the diverse fields of geology. The students of this department are offered training in the field by ONGC Exploration Geologists and geoscientists of AMD, DAE, Govt. of India. The frontier areas of research of the department are basin tectonics, sedimentology, mineralogy, geochemistry, metamorphic petrology, palaeontology and groundwater studies. Faculty members of the department are actively involved with R&D projects funded by different agencies like ONGC, UGC, DST, AICTE and Govt. of West Bengal. The faculty members have published scientific books and a good number of research papers in national and international journals of repute. The faculty members inspire the students to get involved with an aspiration to ignite geological research faculty within the upcoming geoscientists. Research scholars are engaged with research activities in different fields of earth sciences for Ph.D. degree. Students of the department have been able to find employment opportunity in mining companies and petroleum industries as well as further academic involvements in national institutes of international repute as well.

ONGOING RESEARCH PROJECTS :

SI	Title of the Project	Funding agency
1.	<i>Sedimentation & palaeogeographic model for the Late Proterozoic & Tertiary sequences of the Shimla area & their subsurface equivalents in the Himalayan foothills of Himachal Pradesh with a view to assess their hydrocarbon potential</i>	ONGC
2.	<i>Geohydrological studies on surface & subsurface water with special emphasis on drinking water management in the Howrah district of W.B</i>	Govt. of West Bengal
3.	<i>Study of sedimentation pattern and facies development in relation to Proterozoic extensional tectonics and crustal rifting in Alwar Basin in North Delhi Fold belt, Rajasthan.</i>	DST

SCHOOL OF COMMUNITY SCIENCE AND TECHNOLOGY :

School of Community Science and Technology (SOCSAT) was created at Bengal Engineering and Science University (BESU), Shibpur in 2004 to foster sustainable development of different marginalized communities by empowering stakeholders with inputs from institutionalized S & T community. The school is dedicated to minimize environmental damage and maintain ecological balance coupled with the gearing up S & T innovation with special focus on gender equity, so as to establish an atmosphere that will enhance the nation's capacity, capability and scientific temper to develop and sustain basic and applied research at the cutting edge of science to meet the needs of the twenty – first century.

THE MAIN OBJECTIVES AND ACTIVITIES OF THE SCHOOL (SOCSAT) :

- *Awareness generation
- *dissemination of technical know-how
- *Organic relationship with the academic and the society

PROFILE OF THE DEPARTMENTS

*Society oriented inter disciplinary research

*Promote Innovation

*Integrating S&T with moral, ethical and economic issues and settings priorities

*Promote interdisciplinary research and education to encourage better understanding of community related issues

Food Processing and Nutritional Science has emerged as one of the most important branches of studies and research in the modern era of Applied Science. Keeping this in view the School has introduced 4 semester M.Sc course on "Food Processing and Nutrition Science" from the academic session 2007-2008 The school has modest research and analytical laboratory and the research activities of the school have been progressing with significant stride commensurate with the available infrastructure within the School at the University, to pursue interdisciplinary research. It has also the facilities of a sub-library and computational laboratory. Within the short span of three/four years it has published good number of research work in reputed journals and has ongoing Ph.D research activities in the relevant fields of Food Processing and Nutrition Science , Food Microbiology, Biochemical and community interest.

ON GOING PH.D. RESEARCH AREAS :

- Nanotechnology in food products
- Development and evaluation of nutritionally enriched spread products
- Isolation and utilization of non oil constituent of oil bearing materials
- Isolation, purification and characterization of microbial enzyme from soil.

ONGOING IN PIPELINE RESEARCH PROJECT :

SI	Title of the Project	Funding agency
1.	<i>Process development for isolation of Starch and Tannin from Sal Cake</i>	<i>TRIFED</i>
2.	<i>Development of technology to make low cost nutritionally effective 'ready to eat' protein rich human food from oil seeds or deoiled edible seed cakes (seed meals) by co-extrusion with cereals.</i>	<i>Ministry of Consumer Affairs, Food & Public Distribution</i>

INSTRUCTION TO THE CANDIDATES SEEKING ADMISSION TO THE M.SC. COURSE :

1. Candidates passing B.Sc. (Hons.) or equivalent before 2010 are not eligible to apply.
2. Application Form must be properly filled in. Incomplete or irregularly filled up forms will not be considered. No application form will be accepted after the scheduled last date.
3. Based on their academic record selected group candidates will be called for an interview.
4. Application form must accompany attested copies of (a) mark-sheet of B.Sc. (Hons.) or of equivalent final examination / Part II, if final result in not published, (b) age verification certificate, (c) marks sheet of 10+2 or equivalent examination, (d) Madhyamik marks sheet (e) SC/ST/PH certificate, in the name of the candidate for Reserved Category, if applicable, failing which the application form will be rejected. Original certificates and mark-sheets are to be produced at the time of admission, if selected.

5. **Based on the performance in the Interview conducted by the University and academic record of the candidate, a merit list will be published in the University website and University notice boards.**
6. Along with the published list the admission schedule will be displayed. **If a candidate enlisted in the merit list does not report at the respective departments to take admission on scheduled date and time, the offer for admission to him/her will stand cancelled and the vacancy arises thereof will be filled up by the following candidate in the merit list.**
7. The candidate will have to submit the following at the time of admission:
 - i) 03 copies of Passport size photographs
 - ii) Original marks sheet of B.Sc. Final Examination and attested photocopies.
 - iii) Marks sheet of 10+2 or equivalent examination
 - iv) Marks sheet for Madhyamik examination
 - v) Admit card / Certificate of Madhyamik or equivalent examination for verification of age.
 - vi) SC/ST/PH certificate, if applicable, in the name of the candidate. (in original and attested photocopies).
 - vii) Blood group certificate
 - viii) Medical fitness certificate from a registered medical practitioner.
8. All candidates who are eligible for admission but whose results are yet to be declared, will be offered provisional admission. They will be required to submit their results immediately after its publication, failing which their admission may be treated as cancelled. The admission will also be cancelled if the final marks fall short of the eligibility criteria as mentioned in page 3.
9. Students will be admitted subject to submission of Migration Certificate within three months from the date of admission.

ADMISSION PROCEDURE AND OTHER DETAILS :

1. Candidates will be selected on the basis of their academic record and the performance in the interview conducted by the University. The relative weight of the academic record and interview as follows: B. Sc. (H) = 50%, H.S.= 20%, Madhyamik= 10% and Interview= 20%. The academic record will be calculated based on the absolute percentage of marks of the candidate, not on the basis of percentile of marks.
2. The list of the candidates called for the interview along with the schedule for interview (Date and time slot) will be published in the notice board of the University, respective Departments and the University website on 20.7. 2011.
3. A Department wise merit list of candidates will be displayed in the notice boards of University, respective Departments and the University website on 02.08.2011 along with admission dates and time schedule.
Candidates are requested to contact respective departments on the date of admission.
4. The Admission Committee reserves the right of not selecting any candidate who is considered to be physically unfit or otherwise unsuitable.
5. For weightage of marks in H.S., only marks of Physics, Chemistry, Mathematics will be counted. For Food Processing and Nutrition Science, best of three from Physics, Chemistry, Mathematics & Biology will be counted.

HOW TO APPLY :

Applications are to be submitted in prescribed forms available from **Admission Cell, Office of the Registrar, New Academic cum Administrative Building, BESUS** between 10:30 a.m.—1:30 p.m. and 2.30 p.m.—4.30 p.m. on working days from 13 June, 2011 to 29th June, 2011 by depositing Demand Draft of Rs.500/- (Rupees Five hundred only) for General Category and Rs. 200/- (Rupees Two hundred only) for. SC/ST candidates in favour of **Registrar, Bengal Engineering and Science University, Shibpur** and payable at Kolkata **OR** may be downloaded from www.becs.ac.in, in that case the requisite fee as aforesaid will have to be submitted along with the Application Form. The duly filled in form must reach the **Admission Cell, Office of the Registrar, New Academic cum Administrative Building, BESUS** by **29 June, 2011**.

FEES TO BE PAID AT THE TIME OF ADMISSION

Registration Fees (one time)	Rs. 200/-
Admission Fee (one time)	Rs. 200/-
Students'Activity and other Fee (Annual)	Rs. 100/-
Caution Deposit	Rs. 1000/-
Examination Fee (per semester)	Rs. 500/-
Infrastructure Maintenance Fees	Rs. 1,000/-
Tuition Fees (per semester)	Rs..3,000/- ab
Total	Rs. 6,000/-

^a Tuition fee for Food Processing & Nutrition Science' course is Rs. 6000/- per semester.

^b In case of Applied Chemistry, candidates will have to pay an extra amount of Rs.1,000/-(per semester) as Laboratory Fees. Hence, a total amount of Rs.7,000/- has to be paid by the candidates of Applied Chemistry at the time of admission. For Food Processing and Nutrition Science, candidates have to pay Rs. 2000/- per semester as Laboratory Fees. Hence for Food Processing and Nutrition Science, candidates have to pay Rs. 11,000/- at the time of admission.

Tuition fee, Laboratory fee and the total fees of 'Food Processing and Nutrition Science' to be paid at the time of admission are likely to be enhanced.

NB. : 1) University fees are to be deposited in the United Bank of India, BESUS Branch, located within the University Campus, in the **Bank A/C No 0171050031536 either in cash or by Demand Draft or Pay order drawn in favour of “The Registrar, Bengal Engineering and Science University, Shibpur” payable at Kolkata.** The candidate will collect his/her copy of the Bank Receipt as well as the University’s copy of the Receipt and shall enclose the University’s copy of the Receipt together with admission form.

2) If a candidates applies for withdrawal of his/her admission within a stipulated period to be decided by the University, the candidate will be eligible to get refund as per the rules of this University.

MORE INFORMATION FOR STUDENTS :

- ★ Session will commence on and from 9th Aug, 2011.
- ★ Hostel facility will be provided subject to availability of accommodation.
- ★ Approximately by 20% of the admitted students may be given merit-cum -means Scholarship, if eligible

Form No :



BENGAL ENGINEERING AND SCIENCE UNIVERSITY, SHIBPUR
HOWRAH- 711103

**APPLICATION FORM FOR ADMISSION TO POST GRADUATE COURSE
IN APPLIED SCIENCES**

Category of Candidate			
[Please put tick mark (✓) in the appropriate box]			
GENERAL	<input type="checkbox"/>	SC	<input type="checkbox"/>
ST	<input type="checkbox"/>	PC	<input type="checkbox"/>

Subject			
(BLOCK LETTERS)			
Code			
Chemistry	: 01	Geology	: 02
Mathematics	: 03	Physics	: 04
Food Processing & Nutrition Science	: 05		

Self Attested Photograph (STAMP SIZE)
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NATIONALITY :
RELIGION :

Name of the Candidate
(BLOCK LETTERS) (First Name) (Middle Name) (Surname)

Address for Correspondence

Phone No..... Mobile No..... E-mail

Date of Birth (dd/mm/yy)/...../..... Sex (Male/Female) Blood Group

Academic Record I (Graduation Level) :

	Subjects	Marks Obtained (Pt. I + Pt. II)	Full Marks (Pt. I + Pt. II)	Marks Obtained (Pt. III)	Full Marks (Pt. III)	Qualifying Degree	Name of the University	Year of Passing	Year of Appearing
Honours / Equivalent									
Subsidiary I									
Subsidiary II									

Academic Record II (10+2 level) & (Madhamik) :

Subjects	Physics / Physical Science	Chemistry	Mathematics	Biology / Life Science	Name of the Board	Year of Passing
Marks Obtained (H.S)						
Full Marks (H.S)						
Marks Obtained (Madhyamik)						
Full Marks (Madhyamik)						

DD/Pay Order No..... Name of the Bank Date.....

Father / Mother 's/ Name

Address

Phone No.....Mobile No..... E-mail

Name of the Local Guardian (if any)

Address

Phone No.....Mobile No..... E-mail

DECLARATION BY THE CANDIDATE

I do hereby declare

- (1) *that the information given above are true to the best of my knowledge and behalf;*
- (2) *that my admission will be liable to stand cancelled if any of the aforesaid information is found to be untrue;*
- (3) *that I shall scrupulously abide by the standing rules and code of conduct of the University;*
- (4) *that I shall be liable to face punishment, including expulsion from the University, for any offence committed on my part in violation of the rules of the University;*
- (5) *that I shall not commit any act that would bring disrepute to the University and shall not be involved in any activities that would tarnish the image of the university;*
- (6) *that I am fully aware of the Act regarding participation in ragging and of the punishment may be imposed on me if I am found guilty of ragging and that I am liable to be punished in terms of the said Act.*

Date :

Place

Signature of the Candidate

Check List [Please put tick mark (✓) in the appropriate box]

- Admit Card/certificate and marks sheet of Madhyamik or equivalent exam
- Graduation Marks Sheet (Part II mark sheet: and Part-III mark sheet (if result is published)
- Marks sheet of Higher Secondary or equivalent examination
- SC / ST / PH Certificate, if applicable.
- Demand Draft (for downloaded form)

For Office Use Only

Recommended for Admission

Head of the Department

Dean, Faculty of Sciences / Registrar

R E C E I P T

Received from Sri / Smt.
..... a Demand Draft / of Rs.500.00 (200/- for SC/ST) bearing number
..... Dated.....Drawn on (Bank)
Branch for issue of Information Brochure and Application Form in connection
with the **admission to Chemistry / Physics / Applied Mathematics / Applied Geology /
Food Processing and Nutrition Science for Post Graduate Course in BASIC AND
APPLIED SCIENCES for the Session 2011 – 2012.**

Signature of the Receiving Officer with Seal

IMPORTANT DATES

Date of Issue of the Application Form [10:00 a.m. to 1.30 p.m. and 2.30 p.m. to 4.30 p.m.]	:	From 13. 06. 11 to 29. 06. 11
Last date of Submission of filled-in Application Form	:	29.06.11
Date of Publication of list of selected candidates called for interview	:	20.07.11
Dates of interview	:	25. 07. 11 to 28. 07. 11
Date of Publication of the Merit List	:	02. 08. 11
Date of Admission	:	05. 08. 11
Commencement of Class	:	09. 08. 11

- (i) **A candidate cannot apply for admission to more than one subject.**
- (ii) **The list of candidates selected for Interview will be displayed on the University Website (www.becs.ac.in). No separate communication in this regards will be made to candidates.**