

Ghani Khan Choudhury Institute of Engineering & Technology

(Established by Ministry of H.R.D., Govt. of India)

Office : Vill & Post. Kotwali, Dist. Malda, - 732144

West Bengal, India,

Phone : 03512 278058, Fax : 03512 -268780/278058

URL : <http://www.gkciet.ac.in>



GKCIET All India Entrance Test-2014

Admission Brochure

1. INTRODUCTION

Ghani Khan Choudhury Institute of Engineering & Technology (GKCIET), Malda, West Bengal was established in 2010 by Ministry of Human Resource Development, Govt. of India in the memory of Sri Ghani Khan Choudhury who had contributed immensely to societal development of the region. The Institute is located at Malda, West Bengal with the bordering districts of Bihar, Jharkhand and North Eastern states. Ghani Khan Choudhury Institute of Engineering & Technology (GKCIET), Malda was established, with the objective to create a multi-layered inter disciplinary and inter-sectorial efficient professional technical manpower to act as an international podium for the development and transfer of technical competence in academics. It is committed to provide best possible technical education at grass route level and to cater to the specific needs of women, school dropouts and other disadvantaged sections of society by organizing a large no of short/long term skills orientation programmes for economic up liftment and inclusive growth of society. It was formulated that the institute, besides catering to the needs of formal education would undertake the non-formal education to prepare the skilled and qualified manpower for self-employment. Further, the institute would take up a strategic research and development activities which along with entrepreneurship will help in extending the efforts of the institute in imparting education to the unemployed and working population by updating and upgrading their technical skills. GKCIET is devoted to provide leadership, organizational expertise, technical assistance and the other resources required to meet the demand.

2. LOCATION

The institute is temporarily located at Power Grid Corporation's Training Institute, Malda and the permanent campus is being developed in a sprawling area of 101 acres of land, at a distance of 7 km from Malda central railway station and 0.7 km from 34 No National Highway. It is surrounded by lush green land and mango trees with beautiful landscapes.

3. STATUS

The Institute is an autonomous body and established & fully funded by the Ministry of Human Resource Development (MHRD), Government of India.

4. OBJECTIVES

Ghani Khan Choudhury Institute of Engineering & Technology (GKCIET) is conceived of the following:

A. EDUCATION AND TRAINING

- To offer flexible, modular, credit based multi-point entry programs in engineering and technology.
- To promote self-employment in all programme by introducing an element of entrepreneurship, providing guidance and counseling services to help students to take up self-employment ventures.

- To develop enabling framework to implement national policy on skill development
- To offer Non-formal skill development programme to strengthen the scope of employment & self-employment and entrepreneurship development
- To provide technical education facilities for women, school dropouts and other disadvantaged sections of society through specially designed courses.
- To offer continuing education programme for working personnel from industries at different levels to meet the requirements of the industry/ trade.
- To offer bridge courses for lateral entry in relevant programme and for moving from one level of course to another level.

B. RESEARCH & DEVELOPMENT

- To conduct action research in TVET sector and Science & Technology.
- To prepare the students incapable of initiating & managing development activities in the region, hence the programme will lay emphasis on developing relevant & appropriate technical & vocational skills.
- To promote Institute and Institute – Industries interactions by sharing resources for sustainable development of the region in particular and India as a whole.

C. EXTENSION SERVICES:

- Industries in the neighborhood and in the region.
- Working personnel.
- Passed out students.
- I.T.I.s and Polytechnics.
- Research and other institutes of higher learning.

D. GOAL

SHORT TERM GOAL

Dissemination of technical knowledge and skill, inculcate entrepreneurship trait among rural youths using both formal as well as non-formal mode so that they could contribute in the sustainable development of the region in particular and India as whole.

LONG TERM GOAL

Institute is to become fountain-head in providing technological excellence in academics through formal / non-formal Technical Education, Entrepreneurship & Research to meet the changing global needs of the society by transforming itself into Technical Vocational University.

5. PROGRAMME STRUCTURE

The Institute offers modular pattern of education in emerging areas of Engineering and Technology. Following three types of Programmes are offered by the institute:

- (a) Certificate - 2 Years duration
- (b) Diploma - 2 Years duration (50% seats for vertical promotion from Certificate to Diploma module for GKCIET Certificate holders and remaining 50% through lateral entry)
- (c) Degree - 2 Years duration (50% seats for vertical promotion from Diploma to Degree Module for GKCIET Diploma holders)
- 3 Years duration (remain 50% seats through lateral entry to others Diploma holders, including 1 year bridge course to be introduced in due course)

6. CERTIFICATE PROGRAMME:

The objective of the Certificate programme is to produce technically skilled manpower in appropriate areas. The meritorious students who wish to study further may join the higher programmes of GKCIET. Certificate programme (2 years) is vertically integrated to Diploma (2 years) and later Diploma to the Degree (2 years) programme. Vertical promotion to higher module is based on 50% weightage of their score in the entrance test and 50% weightage of their score in the qualifying examination.

7. ENTRY QUALIFICATION

The minimum qualification for admission to the Certificate programme is Matric (10th Std.) pass (Pass in English, Mathematics and Science is compulsory) from a State Secondary Education Board/CBSE/ICSE/National Open School or equivalent.

8. DURATION

The duration of the Certificate programme is 2 years.

9. DISCIPLINES

Admission is available in the following Certificate courses:

10. CERTIFICATE PROGRAMME OFFERED (IN SESSION 2014-2015)

Sl. No	Name of Certificate Programme	Academic programme offering Department	Intake	Qualification	Duration
1	Food Processing and Preservation	Food Processing Technology	30	10 th Pass	2 years
2	Servicing and Maintenance of Electrical Appliances	Electrical Engineering	30	10 th Pass	2 years
3	Repairing & Maintenance of Auto and Farm Machineries	Mechanical Engineering	30	10 th Pass	2years
4	Construction Technology	Civil Engineering	30	10 th Pass	2years
5	Computer Applications	Computer Science & Technology	30	10 th Pass	2years
6	Chemical Technology	Chemical Technology	30	10 th Pass	2years
7	Sericulture & Textile Technology	Sericulture & Textile Technology	30	10 th Pass	2years

11. ADMISSION PROCEDURE

Admission to all Certificate courses shall be made on the basis of a National Level Entrance Test (GET-I). General principles relating to reservation, quota for the candidates of West Bengal State, Other States and U.T. are given in **Section 14**.

12. PRINCIPLES OF ADMISSION

All admissions will be made on merit determined for admission. In case of tie among two or more candidates, candidate elder in age as per the relevant entry in the matriculation certificate shall be placed higher in merit. Again, if there is tie in age (date of birth), candidate having higher marks in qualifying examination shall be placed higher in merit.

13. RESERVATION OF SEATS*

Seat reservation of reserved categories will be as per latest guidelines issued by the Government of India from time to time.

14. TERRITORIAL QUOTA

Seats meant for certificate courses are bifurcated for the candidates of the State of West Bengal and for the candidates belonging to other States, respectively in the following proportion:

Quota for West Bengal 75%

Quota for Other States and U.T 25%

**** Candidates have to furnish domicile Certificate form Government/local bodies to claim territorial quota during counselling.**

15. PATTERN OF EXAMINATION

GKCIET All India Entrance Test GET-I for admission to Certificate Programme will consist of one paper of 2:30 hours duration.

This paper will have 150 objective type questions of 150 marks from English, General knowledge, Mathematics and Physical Science.

16. EXAMINATION CENTRES FOR 2014

Centre Code	Centre
01	Malda (WB)
02	Kolkata
03	Guwahati
04	Delhi
05	Bhopal
06	Chennai

*In case of insufficient number of candidates applied for any center, the candidates of the center will be transferred to nearest other center.

17. ON LINE APPLICATION AND APPLICATION FEE

Application Form will be available online Institute website: <http://www.gkciет.ac.in> from 10th April, 2014 to 09th May, 2014 (upto 2 PM).

HOW TO APPLY :

1. Log on to website of GKCIET <http://www.gkciет.ac.in> and click on [GKCIET All India Entrance Test-2014](#) link.
2. Fill-in the online application form.
3. Take a printout of the filled-in form.
4. Paste photographs and put signatures in the appropriate places in the form.

5. Prepare a bank draft towards application fee of **Rs 500/-** (For SC/ST candidates **Rs 200/-**. **There is no examination fee for the candidates applying under PWD category in Certificate programmes only**) in favour of **“Accounts Officer, GKCIET, Malda”** payable at **Malda**.
6. Submit the application form along with the bank draft within **12th May 2014** by post / hand delivery to the Member Secretary, Admission Committee, Ghani Khan Choudhury Institute of Engineering & Technology, TTC Power Grid Complex, Post. Maliha, Dist. Malda -732102. Institute will not be responsible for the late receipt of application form.
7. Keep photo copies of application form and bank draft & original bank receipt of draft preparation for future reference.

OR

8. The candidate may apply offline / download the application form/ collecting the form from the Office of GKCIET, Malda and submit the duly filled in application form with fees well in time so as to reach the institute before closing date.

PROCESS OF ADMIT CARD DISTRIBUTION

1. Admit Card will be available online after receiving of application form and fees by this office for the GET-I.
2. Candidates will download the admit card and paste photograph and get authenticated by Head Master of the last school attended / Gazetted officer.
3. They are also advised to carry the photo copies of application form & bank draft and original bank receipt of the draft in the entrance Examination Centre.

18. GKCIET All India Entrance Test-2014

Entrance Test conducted for admission to Certificate programme is termed as GET-I.

SCHEDULE OF TEST:

Test	Date	Time
Certificate (GET-I)	25-05-14	11:00 am to 01:30 pm

19. FEE STRUCTURE FOR ACADEMIC YEAR 2014-2015

FEE STRUCTURE FOR ACADEMIC YEAR 2014-2015 will be available on the web site of the institute.

20. PATTERN OF GKCIET ALL INDIA ENTRANCE TEST FOR CERTIFICATE PROGRAMME, 2014-15

GKCIET All India Entrance Test GET-I for admission to Certificate Programme will consist of one paper of 2:30 hours duration.

This paper will have 150 objective type questions of 150 marks from English & General Knowledge, Mathematics and Physical Science.

21. MEDIUM OF EXAMINATION

Candidates appearing for the entrance test for Certificate Programmes shall have to answer questions in English. Question paper will be provided in English only.

22. MERIT LIST FOR DIRECT ENTRY SEATS:

For admission in certificate a common merit list shall be prepared and the candidates will be allotted trade/branch/specialization as per his/her merit and choice and the availability of seats in the said trade/branch/specialization of the programme. The list of qualified candidates will be displayed on the **Institute website: www.gkciet.ac.in**.

23. COUNSELING

The exact schedule of counseling and number of candidates called will be displayed on the website of the Institute namely www.gkciет.ac.in. **No separate Call Letters will be sent to the candidates for attending Counseling.** However, if a candidate fails to attend counseling in time due to any reason, he/she may appear in the next available counseling (if any). Such candidate will have to keep track of the next available counseling schedule which will be available on Institute website and participate therein without waiting for any intimation in this behalf. His/her claim in such subsequent counseling in which he/she may participate may be considered in accordance with his/her merit/choice and availability of seats in a particular trade/branch/specialization during the said subsequent counseling.

24. GENERAL INFORMATION:

Candidate appearing in the Entrance Test for admission is allowed provisionally, subject to production of his/her Certificate having passed the qualifying examination on or before the day of counseling of the concerned programme, failing which his/her candidature shall be deemed to have been cancelled.

Academic Calendar and study scheme along with syllabi shall be given to all the admitted students after start of the classes. Semester system will be followed for Certificate, Diploma and Degree Programmes.

25. IMPORTANT DATES:

DATE OF ONLINE REGISTRATION:

Starting Date: 10-04-2014

Last Date: 09-05-2014 (Upto 2 pm)

DATE OF EXAMINATION:

• Certificate Programme (GET-I)

25-05-2014 (11:00 am – 01:30 pm)

26. SYLLABUS AND MODEL QUESTIONS

A. ENGLISH & GENERAL KNOWLEDGE

Marks: 60 (60 Questions)

Syllabus:

1. Synonyms and Antonyms
2. Fill in the Blanks with prepositions
3. Comprehension
4. Analogy
5. Appropriate Word substitution
6. General Knowledge/Awareness

Example of Objective Type Questions:

Fill the choice of the alternative you think to be correct answer in the OMR answer sheet.

Q. The name of the city which is known as a pink city.

(a) Chandigarh (b) Mumbai (c) Jaipur (d) Delhi

B. MATHEMATICS

Marks: 30 (30 Questions)

Syllabus:

ALGEBRA: Integers, rational and irrational numbers, ratio and proportions. HCF and LCM.

ARITHMETIC: Time and work, Time and Distance, Interest, Average, ratio and Proportion.

TRIGONOMETRY: Trigonometric ratios-sin x, cos x, tan x, cot x, cosec x and sec x for 0° , 30° , 45° , 60° and 90° . Trigonometric Identities. Use of Trigonometric tables. Simple problems on heights and distances.

MENSURATION: Perimeter and area of a triangle, square, rectangle, rhombus, trapezium, quadrilateral and circle. Volume and surface area of cube, right prism, cylinder, cone and sphere.

Example of Objective Type Questions:

Fill the choice of the alternative you think to be correct answer in the OMR answer sheet.

Q. In a right angled triangle the sides perpendicular to each other are 15 cm and 8 cm. Its perimeter is : (a) 46 cm (b) 60 cm (c) 120 cm (d) 40 cm

C. PHYSICAL SCIENCE

Marks: 60 (60 Questions)

Syllabus:

Motion: Uniform and non-uniform motion (qualitative idea only), displacement, speed and velocity, acceleration, equations of motion.

Force: Definition, Inertia of a body, balanced and unbalanced forces, acceleration, relationship between force, acceleration and mass of an object, action and reaction of forces.

Gravitation: Laws of gravitation, acceleration due to gravity.

Work: Work done by a force, relation between work and energy, kinetic energy and potential energy.

Wave Motion : Nature of wave, propagation of a wave through a medium, type of waves; longitudinal, transverse, simple harmonic motion (graphical representation), amplitude of wave, relationship between wave length, frequency and velocity of wave.

Light: Perception of energy carried by light waves, human eye structure and function of human eye, focal length of eye-lens, image formation on the retina, perception of color-composition of white light.

Heat: Mechanical work and heat, heat and temperature, measurement of temperature, specific heat, thermal expansion, change of state, idea of latent heat, idea about relative humidity.

Electricity: Conductors and resistors, measurement of current, potential difference and resistance. Heating effect of electric current, quantitative relationship between heat, current, resistance and time of flow of current, electric appliances based on heating effect of current, measurement of electric energy, units of electric power and energy.

Magnetic effects of Electric Current: Magnetic field of a current carrying conductor, coil and solenoid, electric motor & its applications, Electromagnetic induction.

Matter-Nature and Behaviour : Nature and behaviour of different types of substances, elements, compounds and their mixtures, structure of matter, atomic theory, molecules and atom; Structure of atom-electrons, protons and neutrons; composition of nucleus-atomic number and mass number, distribution of electrons in different energy levels in an atom, valence electrons and valency.

Atomic Mass and Molecular Mass:

Mole concept; percentage composition of compounds.

Physical and Chemical Changes: Combination, displacement, decomposition, slow, fast, exothermic and endothermic reactions, catalyst; chemical equations.

Classification of Elements: Periodic Law, periods & groups; General trend in properties of elements in periodic table.

Extraction of Metals: Metals and non-metals (Si, P,S) occurrence, properties and uses; general metallurgical operations for extraction of pure metal (extraction of copper, iron and aluminum). Properties of metals, uses of metals and nonmetals; properties of some alloys (brass, gunmetal, German silver, Solder, bronze) uses at home and in industry.

Objective Type Questions:

Fill the choice of the alternative you think to be correct answer in the OMR answer sheet.

Q.1 The least distance of distinct vision of normal eye is
(a) 30 cm (b) 25 cm (c) 15 cm (d) 20 cm

Q.2 To remove hypermetropia, lens used is
(a) Concave (b) convex (c) cylindrical (d) plano-concave

Q.3 Isotopes of an atom have
(a) Same mass number (b) different atomic number (c) same atomic number (d) none of the above

Q.4 Chemical name of baking soda is
(a) Sodium chloride (b) sodium carbonate (c) sodium bicarbonate (d) none of above.

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