

PEC UNIVERSITY OF TECHNOLOGY CHANDIGARH

Brochure

for

**Admission to M.Sc. Programme in Mathematics and Computing
2012-13**

PEC UNIVERSITY OF TECHNOLOGY, CHANDIGARH
A Deemed University under Section 3 of UGC Act, 1956.

.....
(Formerly Punjab Engineering College, Chandigarh)
Sector 12, Chandigarh-160012
FAX: +91-0172-2745175, 2748197
Phone: +91-0172-2753051, 2753055
Website: www.pec.ac.in

IMPORTANT DATES

Last Date of receipt of application at PEC University of Technology, Chandigarh.	04.07.2012 (Wednesday) upto 5.00 pm
Entrance Test (in the department of Applied Sciences)	10.07.2012 (Tuesday) 10.00 am
1st Counseling (in the department of Applied Sciences)	11.07.2012 (Wednesday) 10.00 am
Registration in the department of Applied Sciences (compulsory for all newly admitted M.Sc. Students)	30.07.2012 (Monday) 10.00 am
Commencement of Classes	01.08.2012 (Wednesday)
2nd & Last Counseling (Counseling and registration in the department of Applied Sciences)	03.08.2012 (Friday) 10.00 am

NOTE:

PEC University of Technology reserves the right to change the schedule without prior notice. Any change in the schedule shall be announced on the website www.pec.ac.in of PEC University of Technology, Chandigarh.

IMPORTANT

- 1. Candidates are advised to read the brochure for admission to M.Sc. Programme in Mathematics and Computing carefully before applying for admission.**
- 2. Any clause contained in this brochure is subject to alteration(s) and modification(s) without prior notice.**
- 3. This brochure is for information only and does not constitute a legal document.**
- 4. The institute reserves the right to close the programme if the number of students getting admission is less than 12.**
- 5. A candidate who is granted admission in the first counseling but does not register on 30.07.2012 shall be deemed to have surrendered his/her seat and the seat so vacated will be filled up during the second counseling.**

The Master of Science (M.Sc.) programme in Mathematics and Computing is a new programme starting at PEC University of Technology, Chandigarh (Department of Applied Sciences) on self supporting basis.

The details of the program are as follows:

1. DURATION OF THE PROGRAM

Two years (regular) comprising of four semesters

2. INTAKE

15 students (Gen-11, SC-2, ST-1, PH-1)

3. ELIGIBILITY

A candidate must have obtained a recognized Bachelors degree of minimum three years duration (having Mathematics as one of the major subjects) with at least 60 percent marks (5% relaxation for SC/ST and Physically Handicapped category candidates) or an equivalent CGPA.

4. ADMISSION CRITERION

Admission shall be granted on the basis of an entrance test (See Annexure for syllabus) to be conducted by PEC University of Technology. The test will be of one hour duration and will consist of multiple choice questions. The candidate shall be required to secure minimum qualifying marks (as decided by the PEC University of Technology) in this test, to be eligible for admission to the programme.

4.1 Inter-se Merit for Admission:

- The merit will be based on the score of the entrance test to be conducted for the programme. In case of any tie, the merit of the qualifying degree will be the deciding factor.
- In case of candidates having the same scores both in the entrance test and qualifying degree, the age will decide the inter-se merit for admission, the older candidate ranking higher in merit.

5. ADMISSION PROCEDURE

- 5.1 Application forms can be downloaded from the institute website. The application forms should be accompanied by a fee of ₹1000/- (₹500/- for SC/ST/Physically handicapped candidates) in the form of a demand draft in favour of the Director, PEC University of Technology, Chandigarh. The duly filled forms along with the requisite fee must reach the Officer Incharge M.Sc. Admissions of the PEC University of Technology, Chandigarh latest by 5.00 pm on 04.07.2012. Incomplete applications / applications without the requisite fee / applications

sans requisite documents will be rejected by the institute. Applications received after the due date will not be entertained.

- 5.2 An entrance test will be conducted by the department of Applied Sciences on 10.07.2012. The minimum pass percentage in the entrance test would be 30% with 5% relaxation for SC/ST and physically handicapped candidates. A category-wise merit list prepared on the basis of this test will be displayed on the notice board of the department by 6.00 pm on the same day.
- 5.3 The candidates are required to be physically present at the time of the first counseling, i.e., on 11.07.2012 at 10.00 am. The candidates should bring with them original certificates and one set of self attested photocopies of all the relevant documents at the time of counseling / admission. All admission formalities including checking of original documents would be carried out by the programme admission committee as per the displayed merit list. The selected candidates would be issued an admission slip duly signed by the Programme Admission Committee.
- 5.4 The candidates would subsequently deposit fees at the fee counter in the accounts branch of the institute in cash / by demand draft in favour of the Director, PEC University of Technology, Chandigarh. Admission of a candidate would be confirmed only after the candidate deposits full fee and submits a copy of the fee receipt in the Department of Applied Sciences immediately on the same day.
- 5.5 Fee at the fee counter in Accounts Section would be accepted only on submission of the admission slip.
- 5.6 The admission of a candidate, who does not present the original certificates for verification or fails to deposit the prescribed fee in full immediately after receiving the offer of admission by the programme admission committee, shall automatically stand cancelled. The seat thus fallen vacant shall be offered to the candidate next in the order of merit. No correspondence or appeals in this connection will be entertained. No time exemption will be given for any reason whatsoever.
- 5.7 It is mandatory for a newly admitted student to register on the date of registration failing which his/her admission will be cancelled.
- 5.8 The Registration of the students who are admitted in the first counseling will be done on 30.07.2012 (Monday) in the Department of Applied Sciences. The seats of the admitted students who fail to register on this day will be declared vacant and will be filled up in the second counseling by the department on 03.08.2012 (Friday).
- 5.9 Candidates shall appear in the entrance test / counseling for admission at their own expenses.
- 5.10 All admissions to M.Sc. Programme in Mathematics and Computing made during the counseling shall be provisional and subject to approval by the Chairman Senate, PEC University of Technology, Chandigarh.

5.11 Only those candidates will be considered for admission on the day of counseling who have passed their qualifying examination by that time and fulfil other eligibility criteria for admission.

5.12 Procedure for filling up of seats reserved for Physically Handicapped candidates

Applicants will be considered in this category only if the minimum loss of earning capacity due to handicap is 40% according to the criteria laid down in the standards of E.S.I. Corporation of India. The candidate should submit, along with the application, a Medical Certificate of handicap, in the prescribed proforma, from a Government Gazetted Medical Officer, for preliminary screening. In the absence of this certificate the candidate will not be considered against the seats reserved for this category. The candidate will be interviewed on the basis of the certificate attached with the application.

After provisional admission, the candidate will have to appear before the Medical Board constituted by the Principal Medical Officer, Govt. Multi-Specialty Hospital, Sector 16, Chandigarh, for determination of the percentage loss of earning capacity through handicap/disability and for getting a certificate to this effect. This certificate will also indicate the name of the disease causing the handicap; whether the handicap is progressive or non-progressive; and whether the candidate is able to carry on the studies and perform the duties of an appropriate job thereafter. The final admission will be based on this certificate issued by the Medical Board. In case any candidate does not present himself/herself before the Medical Board on the date intimated to him/her, his /her claim of candidature against this category will be rejected and his/her admission will be cancelled. No subsequent opportunity will be given to him/her.

An applicant having a temporary or a progressive handicap will not be considered for admission against the seats reserved for this category.

If the requisite number of eligible physically handicapped candidates is not available, the unfilled seats belonging to this category will be treated as unreserved and will be filled up from amongst the candidates belonging to the General Category.

5.13 Procedure for filling up of seats reserved for Scheduled Castes / Scheduled Tribes candidates

A candidate will be considered under Scheduled Castes Category / Scheduled Tribes Category only after he/she submits a certificate clearly indicating that he/she belongs to the category under which the admission is being sought by him/her, duly signed by the competent authority.

If the requisite number of candidates belonging to Scheduled Tribes Category is not available, unfilled seats belonging to this category will be offered to the candidates belonging to Scheduled Castes Category and vice versa. If some seats belonging to these categories remain vacant even after considering all the

SC/ST candidates then such vacant seats will be treated as unreserved and will be filled up from amongst the candidates belonging to the General Category.

5.14 Submission of Applications

- Applications for admission must be filled in candidate's own handwriting and on the prescribed application form downloaded from the institute website. It must be accompanied by the following documents:
 1. **Copy of the Date of birth (DOB) certificate or High School (Class X) Certificate with DOB (Required from all candidates)**
 2. **Copy of the SC/ST/PH Category Certificate if applicable**
 3. **Copies of marks/grade sheets of various examinations passed**
 4. **Copy of the Character Certificate from the Institute last attended**
 5. **Copy of the Migration Certificate from the Previous University/Board**
 6. **Demand draft for the application fee of ₹1000/- (₹500/- for SC/ST/Physically handicapped candidates).**
- The certificates attached with the application form should be signed by the authorities mentioned therein under the legible seal of their office. The application should be signed by the candidate at appropriate places.
- Incomplete applications or applications not supported by the requisite documents will not be entertained.
- The application should reach the Officer-in-Charge M.Sc. Admissions **on or before the closing date and time**, as notified. Applications received late will not be entertained. The institute does not take any responsibility for postal delay or loss in transit of the application.

6. FEE AND EXPENSES

The institute fee include the following:

UNIVERSITY FEE

One -Time Fee (payable at the time of admission)	
Admission fee	₹3,000
One-time student service fee	₹ 5,000
Refundable deposit	₹5,000
Semester Fee (payable at the beginning of each semester)	
Academic	₹22,500
Other facilities & services	₹5,000
Total fee payable at the time of admission (for day scholar)	₹ 40,500

ADDITIONAL FEE FOR HOSTELLERS

Refundable security	₹ 5,000
Hostel fee (Annual)	₹13,000
Hostel & Mess Establishment charges (Annual)	₹ 16,800
Mess Advance	₹2,500
<i>Total additional sum payable for hostel facilities at the time of admission</i>	₹37,300

7. FEE REFUND RULES

- 7.1 The amount of ₹1000/- paid by a student along with the application is non refundable.
- 7.2 The refundable deposits will be fully refunded whenever the student withdraws his admission from the institute.
- 7.3 If a student after being granted admission pays the fee but does not register on the prescribed date, withdraws his admission and applies for refund, the entire fee paid by him/her shall be refunded except for the non-refundable ₹1000/- paid along with the application.
- 7.4 If a student after being granted admission pays the fee and registers with the institute on the prescribed date but withdraws his admission later and applies for refund before the date of second counseling for admission i.e. by 02.08.2012, to Dean Academic Affairs with copy to the Head, Department of Applied Sciences, his/her admission fee of ₹3,000/- will be forfeited. The other fees paid by him/her (including hostel/mess fees in case of a hosteller) will be refunded after making deductions proportionate to the entire period starting from the month of registration to the month of application for refund (part of each month being counted as a full month).
- 7.5 A student who withdraws his/her admission after the second and final counseling for admission for the year has taken place, will not be entitled to refund of any fee paid by him/her except the refundable deposits.

ANNEXURE

SYLLABUS FOR ENTRANCE TEST

Sequences, Series and Differential Calculus: Sequences of real numbers, Convergent sequences and series, absolute and conditional convergence, Mean value theorem, Taylor's theorem, Maxima and Minima of functions of a single variable, Functions of two and three variables, Partial derivatives, Maxima and Minima.

Integral Calculus: Integration, Fundamental theorem of calculus, Double and triple integrals, Surface areas and volumes.

Differential Equations: Ordinary differential equations of the first order of the form $y'=f(x,y)$, Linear differential equations of second order with constant coefficients, Euler-Cauchy equation, Method of variation of parameters.

Vector Calculus: Gradient, divergence, curl and Laplace operators. Green's, Stoke's and Gauss' theorems and their applications.

Algebra: Groups, subgroups and normal subgroups, Lagrange's Theorem for finite groups, group homomorphisms and basic concepts of quotient groups, rings, ideals, quotient rings and fields.

Linear Algebra: Systems of linear equations, Matrices, rank, determinant, inverse, Eigenvalues and eigenvectors. Finite Dimensional Vector Spaces over Real and Complex Numbers, Basis, Dimension, Linear Transformations.

Real Analysis: Open and closed sets, limit points, completeness of \mathbb{R} , Uniform Continuity, Uniform convergence, Power series.
