

# **PEC UNIVERSITY OF TECHNOLOGY**

(Formerly Punjab Engineering College)

## **CHANDIGARH**

### ***Brochure***

*For*

**Admission to 1st Semester of M.E. Courses**

**2011-12**

**Price**

At counter (cash) : Rs. 1000/-

By Regd. Book Post : Rs. 1050/-

# IMPORTANT DATES

<b>Last Date of receipt of application at College Counter.</b>	<b>17.06.2011 (Friday)</b>
<b>Display of merit list of GATE qualified candidates and the candidates of other categories like Non-GATE, Part-time, Sponsored candidates by all concerned departments on the college website.</b>	<b>27.06.2011 (Monday)</b>
<b>1st Counseling Schedule</b>	
<b>Test Day - Day 1 (As per the schedule of ME Admissions in this Brochure)</b>	<b>04.07.2011 (Monday)</b>
<b>Admissions - Day 2 (Counseling for GATE candidates only in the respective departments)</b>	<b>05.07.2011 (Tuesday)</b>
<b>Admissions - Day 3 (Counseling for remaining GATE and Non GATE candidates in the respective departments)</b>	<b>06.07.2011 (Wednesday)</b>
<b>Registration (In respective departments) (<i>compulsory for all new M.E. Students</i>)</b>	<b>01.08.2011 (Monday)</b>
<b>Commencement of Classes</b>	<b>03.08.2011 (Wednesday)</b>
<b>2<sup>nd</sup> &amp; Last Counseling (Counseling and registration in the respective departments)</b>	<b>05.08.2011 (Friday)</b>

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**Admission to 1st Semester of M.E. Courses**

**2011-2012**

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Location: Sector 12, Chandigarh-160012  
EPABX Nos. : 2753051, 2753060, 2753063, 2753064  
FAX: (0172) 2745175; 2748197  
Website: [www.pec.ac.in](http://www.pec.ac.in)



## IMPORTANT POINTS OF ADMISSION PROCEDURE

1. Candidates are advised to read the admission brochure 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. **Last date for receipt of completed application forms in the institute: 17.06.2011(Friday) upto 5.00 P.M.**
5. **A candidate will be required to submit a separate application form for each programme in which he / she desires to take admission. Application forms can be purchased from the institute P.G. Admission counter or downloaded from the institute website. Only the downloaded application forms are to be accompanied by a fee of Rs.1000/- (Rs.500/- for SC/ST/Physically handicapped candidates) in the form of a draft in favour of Director, PEC University of Technology, Chandigarh. In case a candidate is applying to more than one programme, photocopied forms can be used. In that case each additional form must be accompanied by a fee of Rs.100/-. All forms submitted by the candidate must be received under the same cover. The total fee may be paid through a single draft. Applications should be submitted centrally at the P.G. Admission Counter before/on the last date for submitting applications.**
6. **A test will be conducted for each programme by the respective teaching department on Day 1(i.e. 04.07.2011), in case it is accepting non-GATE candidates as per the Schedule given in the admission brochure. 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 for non GATE candidates for each individual programme will be displayed by 6.00 pm on the day of the test (Day 1) on the glass doors adjacent to the auditorium.**
7. **Admission formalities including checking of original documents would be carried out for each programme by the respective programme admission committee as per the displayed merit list on Day 2 for GATE candidates only (Day of counseling and admission i.e. 05.07.2011) and admission for remaining GATE candidates and Non-Gate candidates will be carried out on Day-3 i.e. 06.07.2011. Admission of a candidate would be confirmed only after the candidate submits fee in the accounts section and a copy of the fee receipt in the respective department on the same day. The admission of those candidates, who do not deposit the original certificates and the prescribed fees in cash / demand draft in favour of Director, PEC University of Technology, Chandigarh in full, immediately after the offer of admission by the departmental admission committee, shall stand automatically cancelled and vacant seats so caused shall be offered to the candidates next in order of merit. No correspondence or appeals in this connection will be entertained. No time exemption will be given for arranging the money or for bringing the original certificates from another place.**
8. **The merit list for admission in the 2<sup>nd</sup> counseling will be the same as prepared at the time of first counseling by each department. The Registration of the students who get admitted after 1<sup>st</sup> counseling will be done on 01.08.2011in the respective departments**

**whereas the registration of the students admitted after 2<sup>nd</sup> counseling will be done on the same day i.e. 05.08.2011 in the respective departments.**

9. Candidates shall appear in the test / counselings for admission at their own expenses.
10. All admissions to M.E. programmes made during the counseling shall be provisional and subject to approval by the Chairman Senate of PEC University of Technology.
11. **The candidate should bring original certificates and one set of self attested photocopies to be produced at the time of admission / counseling.**
12. **Only those candidates who have passed their pre-final year / semester exam and appeared / passed in their qualifying exam should apply for admission and furnish an undertaking as per Annexure-B / Annexure-C in the application form.**

## **I PROGRAMMES OFFERED**

**Two years (four semesters) full time programmes leading to the Degree of Master of Engineering are offered in the following disciplines:**

1. Civil Engineering (Highways)
2. Civil Engineering (Irrigation and Hydraulics)
3. Civil Engineering (Structures)
4. Environmental Engineering
5. Electrical Engineering
6. Mechanical Engineering
7. Electronics Engineering
8. Industrial Materials and Metallurgy.
9. Production & Industrial Engineering
10. Computer Science & Engineering
11. Computer Science & Engineering (Information Security) on self supporting basis.
12. Industrial Design on self supporting basis.
13. Total Quality Engineering & Management (TQEM) is a self supporting programme. This programme will be a six Semester Evening programme and the timing of the classes will be 06.00 p.m. to 09.00 p.m. from Monday to Friday.

A limited number of seats in each programmes are available for the **part time** students for whom **the duration of the programme shall be three years.**

## **II ADMISSION PROCEDURE, RULES AND GUIDELINES FOR P.G. ADMISSIONS 2011-12**

1. The admission to all the ME programmes, except for Sr.No.11, 12, 13 in Para I above, will be regulated through Graduate Aptitude Test in Engineering (GATE) in the relevant branch. However, non-GATE-qualified students may also be considered for admission to M.E.

programmes provided seats remain vacant after considering all the GATE-qualified applicants for admission (also see clause 2 below), except for ME Electronics Engineering at serial No.7 in Para-I above and ME Computer Science & Engineering at serial No.10 in Para-I above, in which NON-GATE qualified candidates will be eligible for admission only against sponsored / Part-time seats.

2. Candidates, who hold a B.E./B.Tech. Degree in the parent branch pertaining to the ME programme to which they are seeking admission and do not have a valid GATE score and candidates of non-parent branches (See Table-2), will be eligible for admission on the basis of their merit in the Entrance Test (See Annexure-I for syllabi) to be conducted by the concerned department of PEC.
3. All the candidates applying for all self supporting programmes (Computer Science & Engineering-Information Security, Industrial Design, TQEM) programmes will have to appear in the Entrance Test conducted by the department as per schedule shown in this brochure.

4. **ELIGIBILITY CRITERION FOR ADMISSION:**

A candidate for ME admission must possess qualifying degree with 60% marks with relaxation of 5% marks for SC/ST and physically handicapped category candidates. The percentage marks would be as awarded by the respective university from which the candidate has graduate. In case of universities awarding CGPA, the percentage marks would be determined as per the formula specified by the university on its mark-sheet. In case no formula is specified, the CGPA would be multiplied by a factor of 9 to obtain the percentage of marks.

Candidates who have not submitted their B.E./B.Tech. Degree with their applications may be given provisional admission with an undertaking that they would be submitting original provisional degree and original detailed marks certificates latest by 15<sup>th</sup> September 2011 (last date for submission of documents as per academic calendar). An undertaking form would be got filled from the candidate to this effect.

5. **VERIFICATION OF ORIGINAL DOCUMENTS AT THE TIME OF COUNSELING**  
The original documents should be verified by the programme admission committees in the respective departments on the date of counseling. Further the original documents EXCEPT THE GATE SCORE CARD should be returned to the candidate after confirmation of the candidate's admission on the day of counseling **ADMISSION OF A CANDIDATE WOULD BE CONFIRMED ONLY AFTER HE/SHE SUBMITES A COPY OF THE FEE RECEIPT IN THE CONCERNED DEPARTMENT.**

6. **ADMINISTRATIVE PROCEDURE FOR ADMISSION:**

Candidate whose names figure in the displayed merit list would report to the individual department. The checking of original documents would be carried out in each department by the Programme Admission Committee. The candidates would be issued an enrolment from duly signed by the Programme Admission Committee members.

The candidates would subsequently submit fees at the fee counter in the Accounts Branch. Fees at the fee counter in Accounts Section would be accepted only on submission of the enrolment form. **Admission of a candidate would be confirmed only after the candidate comes back to the department and submits a copy of the fee receipt in the respective department.**

In case candidate fails to submit a copy of a fee receipt in the department on the day of admission his/her admission would be cancelled. As a check, the enrolment forms submitted by the candidates with the Cashier would be returned to the respective department on the same day. The departments would update their admission list and display the available vacant seats for the next day. A copy of the same shall be displayed on the Glass Doors adjacent to the College Auditorium as well as in the department at the end of the day of admission i.e. 05.07.2011. Two copies of these lists would again be made available to the Officer-in-Charge/joint Officer-in-Charge ME Admissions. The available vacant seats will be filled on 06.07.2011 as per scheduled notified in the admission brochure.

**7. REGISTRATION OF ME 1<sup>st</sup> YEAR STUDENTS:**

**The departments shall complete the registration formalities for the candidates admitted to ME 1<sup>st</sup> year as per the instruction to be issued by the Office of Dean Academic Affairs. It is mandatory for all newly admitted students of various ME programmes to register themselves on the date of registration otherwise failing which their seat will be cancelled.**

**A. DISTRIBUTION OF SEATS**

1. The discipline-wise and category-wise distribution of seats is given in Table – 1
2. Out of the seats meant for the candidates sponsored by the Central Government / State Government Autonomous Bodies / Public Limited Companies / AICTE approved institutes, one seat in each of the Civil Engineering (Structures), Environmental Engineering, Electronics Engineering and Mechanical Engineering programmes is reserved for the candidates sponsored by the DRDO. However, if any of the seats so reserved remains vacant, it shall be offered to the candidates sponsored by other Central Government / State Government Autonomous Bodies / Public Limited Companies / AICTE approved institutes.

**TABLE –1 DISTRIBUTION OF SEATS**

Sr. No.	ME Programme	SC	ST	Handicapped	General	Total	Supernumerary Seats	
							Candidates sponsored by Central/State Govt. Autonomous Bodies/Public Ltd. Companies/ AICTE	Part- time



							recognized institutes	
1.	Civil Engineering (Highways)	3	1	*	14*	18	3	2
2.	Civil Engineering (Irrigation and Hydraulics )	3	1	*	14*	18	3	2
3.	Civil Engineering (Structures)	3	1	*	14*	18	3	2
4.	Environmental Engineering	3	1	*	14*	18	3	2
5.	Electrical Engineering**	4	2	1	18	25	3	2
6.	Mechanical Engineering	3	2	1	19	25	3	2
7.	Electronics Engineering	4	2	1	18	25	3	2
8.	Industrial Materials and Metallurgy Engineering	2	1	0	15	18	3	2
9.	Production & Industrial Engineering	3	1	1	13	18	3	2
10.	Computer Science & Engineering	4	2	1	18	25	3	2
11.	Computer Science & Engineering (Information Security) on self-supporting basis	3	1	1	13	18	3	2
12.	Industrial Design on self-supporting basis	3	1	1	13	18	3	2
13.	Total Quality Engineering & Management (TQEM) on self-supporting basis	3	1	1	13	18	3	--

\* Up to a total of 2 seats in the four programmes and wherever a handicapped seat is allotted there would be a corresponding reduction in general seats.

\*\* Specialization in the areas of Control System and Power System / Power Electronics & Drives is allotted on merit basis.

NOTE: *The total number of seats and their subsequent distribution within various categories and branches may be changed without prior notice.*

## NOTE

**The minimum number to start an M.E. Programme will be five in case of all programmes except the self supporting programmes. For the self supporting programmes the minimum number of students to start the programme will be 50% of the total number of seats.**

## **B Eligibility for admission**

A candidate must have obtained a B.E. / B.Tech. Degree from an IIT / AICTE approved college/ a university recognized by UGC in the relevant discipline as given in Table-2.

**OR**

A candidate must have cleared/completed A & B Sections of the Institution of Engineers (India), Calcutta, Examination; or I.E.T.E. Graduate Examination conducted by the Institution of Electronics and Telecommunication Engineers, New Delhi, in the relevant branch and must possess at least five years research / professional experience.

The candidate must possess qualifying degree with atleast 60% marks or equivalent CGPA with 5% relaxation for SC/ST and Physically Handicapped category candidates.

### **Additional Requirements for Sponsored/Part-time Candidates**

1. An applicant for a **Sponsored** seat must have a minimum of two years full time work experience, as on the last date of receipt of completed application form, in the sponsoring organization viz. Central / State Government Autonomous Body / Public Limited Company; or as a teacher in an AICTE approved institute. A sponsored candidate will be considered for admission in only that M.E. programme for which he / she has been granted permission by his / her parent department / organization. The main activities of the sponsoring organization should relate to the programme in which the candidate is seeking admission.
2. An applicant seeking **part-time** admission must have a minimum of two years full time work experience, as on the last date of receipt of completed application form, in the present organization viz. a registered firm/company/industry/educational and research institution/any Government Department or Government Autonomous Organization and will be considered for admission to only that specialization for which he / she has been granted permission by his / her parent department.
3. Candidates sponsored by Central/State Govt. Autonomous Bodies/Public Ltd. Companies/AICTE approved institutes, for admission to ME Programmes, shall be allowed to attend the classes only after they submit the certificate of proceeding on leave from their parent organization.
4. If a sponsored/part-time candidate leaves his / her organization during the programme of study, his / her name will be deemed to have been removed from the institute rolls from the date he / she leaves that organization.

**TABLE-2 Parent & Non-Parent B.E./B.Tech. Disciplines for various M.E. Programmes**

Sr. No.	M.E. Programme	Discipline(s) in which B.E./B.Tech. Degree required for admission			
		Parent Branch(es)	Basis of Inter-se merit (for parent branches)	Non-parent branches	Basis of Inter-se merit (for non-parent branches)
1.	Civil Engineering. (Highways)	Civil Engineering	1) GATE Score 2) Entrance test for non-GATE candidates*	-	-
2.	Civil Engineering (Irrigation & Hydraulics)	Civil Engineering	-do-	-	-
3.	Civil Engineering (Structures)	Civil Engineering	-do-	-	-
4.	Environmental Engineering	Civil Engineering	-do-	Any degree in engineering & technology other than civil engineering /B.Arch./ M.Sc in Environment Science with Physics, Chemistry & Maths (P,C,M) at 10+2 level.	Entrance Test
5.	Electrical Engineering	i) Electrical Engineering / Electrical and Electronics Engineering / Instrumentation & Control for Specialization in area of Control System.  (ii) Electrical Engineering /Electrical and Electronics Engineering for Specialization in area of Power System / Power electronics & Drives	-do-	-	-
6.	Mechanical Engineering	Mechanical / Aeronautical / Production / Production & Industrial Engineering	1) GATE Score 2) Entrance test for non-GATE candidates*	-	-
7.	Electronics Engineering	Electronics & Electrical Communication Engineering./ Electronics & Communication Engineering/ Electronics & Tele-communication Engineering	1) GATE Score	-	-
8.	Industrial Materials and Metallurgy	Metallurgy/ Materials Engineering	1) GATE Score 2) Entrance test for non-GATE candidates*	Mechanical/Producti on Engineering / M.Sc Material Science	1) GATE Score with priority to GATE Score in parent branch 2) Entrance test for non-GATE candidates*

9.	Production & Industrial Engineering	Production/ Production & Industrial/ Mechanical Engineering	-do-	-	-
10.	Computer Science & Engineering	Computer Science & Engineering/ Information Technology	1) GATE Score 2) Entrance test for non-GATE candidates*	Electronics & Communication/ Electronics & Electrical Engineering/ Electrical Engineering	1. GATE Score in parent branch 2. Entrance Test for Non GATE candidates for Sponsored/ Part Time categories only
11.	Computer Science & Engineering (Information Security) (Self supporting programme )	Computer Science & Engineering/ Information Technology	Entrance Test for all candidates	Electronics & Communication/Electrical Engineering	Entrance Test for all candidates
12.	Industrial Design (Self supporting Programme )	All Branches of Engineering and Technology	Entrance Test for all candidates	Any Degree in Engineering & Technology other than degree in parent branch	Entrance Test for all candidates
13.	Total Quality Engineering and Management (TQEM) (Self supporting Programme )	All Branches of Engineering and Technology	Entrance test for all candidates	--	--

**\* Also see Clause II. 1 on Page 3**

### **C. Inter-se Merit for Admission**

#### **(a) GATE-qualified candidates**

1. The inter-se merit of the candidates seeking admission to a particular ME programme will be decided by their GATE score in the parent branch.
2. In case of a tie in GATE scores, the inter-se merit of the candidates will be decided by their score at the qualifying degree level. In case the qualifying degree marks are not available, seventh semester marks / marks at last common level will be the deciding factor for the inter-se merit.
3. In case of candidates having the same score both in GATE and qualifying degree / at last common level of comparison, seniority in age will decide their inter-se merit for admission, the oldest among them ranking highest in merit.

**(b) Non GATE-qualified candidates and GATE candidates seeking admission in non-parent branch.**

1. Their merit will be based on the entrance test to be conducted for the programme by the respective departments. In case of any tie, their qualifying degree merit will be the deciding factor. In case the qualifying degree marks are not available, seventh semester marks / marks at last common level will be the deciding factor for the inter-se merit.
2. In case of candidates having the same score both in entrance test and qualifying degree / at last common level of comparison, seniority in age will decide their inter-se merit for admission, the oldest among them ranking highest in merit.

**Important Note:**

1. Non GATE-qualified candidates shall not be eligible for admission to the M.E. programme in Electronics except for the Sponsored / Part-time seats, for which they will have to appear in the entrance test to be conducted by the department.

**D. 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 performa, from a Government Gazetted Medical Officer, for preliminary screening. If this certificate is not attached with the application, then the candidate will not be considered against the seats reserved for this category. The candidate will be called for interview 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 engineer. The final admission will be based on this certificate issued by the Medical Board. In case any candidate does not present himself before the Medical Board on the date intimated to him, his /her candidature against this category will be rejected and no subsequent opportunity will be given to him/her.

**An applicant having a temporary or 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 Pool.

**E. Procedure for filling up of unfilled sponsored/part-time seats**

If the requisite number of eligible sponsored/part time candidates are not available, the unfilled seats belonging to these categories will not be filled since the seats for sponsored / part time candidates are supernumerary over and above the total number of seats.

**F. Procedure for filling up of unfilled seats reserved for Scheduled Castes / Scheduled Tribes candidates**

If the requisite number of Scheduled Tribes candidates are not available, unfilled seats belonging to this category will be offered to the Scheduled Castes candidates 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 Pool.

**G. Submission of Applications**

1. Applications for admission must be filled in the candidate's own handwriting and on the prescribed official application form appended with this brochure / application form downloaded from the institute website. It must be accompanied by the following documents:
  - a) **Date of birth (DOB) certificate or High School (Class Ten) Certificate with DOB (Required for all candidates)**
  - b) **SC/ST Certificate if applicable**
  - c) **Certificate of Physical Handicap if applicable**
  - d) **Sponsorship certificate for sponsored candidates (in the performa prescribed in the application form) if applicable**
  - e) **GATE score card**
  - f) **Copies of mark/grade sheets**
  - g) **No Objection/Relieving Certificate from employer (for employed candidates)**
  - h) **Migration certificate from the institute attended last**
  - i) **Undertaking from the institution attended for the non-declaration of result of the last semester / having appeared in last semester as per format given in the application form attached with this brochure.**
  - j) **The Demand draft for the application fee of Rs. 1000/- (Rs.500/- for SC/ST/Physically handicapped candidates) or / and Rs. 100/- as applicable (See clause 5 page 1).**
2. 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 the appropriate places. Incomplete applications or applications not supported by the requisite documents will not be entertained.
3. The application should reach the Officer-in-Charge PG Admissions **on or before the closing date and time**, as notified in the press / on website. Applications received late will not be entertained. The institute does not take any responsibility for the postal delay or loss in transit of the application.

**H. Leave and Attendance**

1. Students who are absent from the institute continuously for two weeks without permission from the Head of Department, may not be permitted to continue in the semester and may be asked to drop the semester, unless satisfactory explanation of their absence, as given by them through the Head of Department, is duly accepted by the Chairman Senate.
2. If a student does not turn up after winter or summer vacations, his/her name will be sent to Chairman Senate for termination of the programme. If approved by the Senate, his/her name will be removed from the institute rolls with effect from the date on which he actually appeared in the last semester examination.
3. If a student does not appear in the end semester examination, then the concerned Head of Department will forward the name of the student for termination to the Chairman Senate
4. Students who are in receipt of the scholarship shall be entitled to a total leave of 30 days in a year without loss of scholarship. They are not entitled for vacation.

### **Medical Leave**

Leave on medical grounds, duly supported by a medical certificate, may be granted to a student up to eight days per semester. Unavailed leave may be carried over to the next semester up to a maximum of eight days. However, at a stretch, the medical leave shall not exceed 15 days. The medical certificate must be obtained from the Medical Officer of a Government Hospital or the Medical Officer of the Institute dispensary.

### **Semester Leave**

Semester leave for up to a maximum of two semesters for the ME students may be sanctioned for bonafide reasons. Except for medical reasons, such leave would not normally be sanctioned before a student has completed his/her programme requirements and in no case before the student has spent two semesters in the programme. However, on medical considerations such leave may be sanctioned after his/her stay of one semester. Leave for more than one semester at a time will not be granted.

**Note:** However the latest rules as decided by the Chairman Senate for the Medical leave, Semester leave and Termination etc. will prevail for all the students.

### **I. Scholarships**

- a) The students admitted to M.E. degree programmes with valid GATE result, may get scholarships @Rs.8000/- per month (or as decided by MHRD, GOI New Delhi from time to time) per student subject to the approval of Chairman Senate. The said scholarship shall be in accordance with the procedure and guidelines laid down in this regard. Grant of Scholarship is further subject to the availability of funds and on the fulfillment of conditions for such award.
- b) Every student must submit a formal application for grant of Scholarship in the prescribed form within a week from the date of actually joining the Postgraduate Classes duly attested by the concerned Head of the Department.

- i. An awardee under post-graduate scholarship scheme will not be allowed to receive additional scholarship or stipend or special allowance from any other source. In case he is in receipt of any such award, the same must be surrendered and the amount received as such should be refunded before the benefit of scholarship is availed of.
  - ii. Good conduct and regularity in attendance are also implied conditions for the continuance of the scholarship.
  - iii. If any candidate is found to be ineligible for the award of the scholarship for any reasons whatsoever including wrong information given by the student concerned, the scholarship will be cancelled and the total amount paid to him will be recovered in lump-sum.
- c) Unauthorized absence from the institute will result in forfeiture of scholarship in part or in whole for the period of absence or subsequent to such absence.
- d) A student who has not appeared in the End Semester Examination due to shortage of attendance or otherwise will be debarred from future payment of scholarship.
- e) Unsatisfactory progress/misconduct of a student during the programme may result in discontinuation of scholarship.
- f) In order to be eligible to receive the scholarship, the student is required to submit an undertaking on a non judicial stamp paper that in case he / she does not fulfill the conditions as laid down by G.O.I. in their Letter No. F.3-16- (Part-II) 1.2, dated 7th April, 1989 as modified from time to time, he /she will refund the entire amount of scholarship without protest. The conditions to be fulfilled in addition to the general conditions mentioned earlier are:
  - i. He / she will undertake 8 to 10 hours per week of work related to teaching and research activities as assigned by the Head of Department. For this, the Schedule of work may be prepared by the respective Convener/Member Departmental Post Graduate Committee (DPGC) within a week from the admission/start of the semester and be sent to the respective Head of the Department for its inclusion in the time-table under intimation to Dean Academic Affairs (DAA).
  - ii. He / she has to secure a first class or equivalent Grade Point Average during the first semester, second semester and third semester examinations passing all the subjects of that semester to become eligible for continuance of scholarship during the second, third and fourth semester respectively. Scholarship once discontinued for any reason will not be continued again even if a student secures first class.
  - iii. He / she will not leave the programme midway or appear in any competitive examination not related to Engineering and Technology.

## **J. Important Information**

1. Minimum of 80 percent of the attendance in each subject is necessary for being admitted to examination in any subject. Besides, the students must carry out and acquaint themselves with laboratory and practical work covered during the year, to the satisfaction of the Director. Students are required to pursue their studies regularly and those whose performance in the class tests is not satisfactory are liable to be detained by the Director from appearing in the End Semester Examination. The detailed rules and syllabi of the



Examination are available and every student is advised to get the latest copy of it for his / her guidance.

2. Every student shall be offered theory/ practical programmes as per the scheme of studies approved by the Senate of PEC University of Technology, Chandigarh.

## K. FEES AND EXPENSES

The institute fees include the following:

### Fees & Registration:

Non Gate Candidates		For GATE qualified candidates	
Admission Fee	Rs. 3000	Admission Fee	Rs. 3000
One time student service fee	Rs. 5000	One time student service fee	Rs. 5000
Refundable Deposit	Rs. 5000	Refundable Deposit	Rs. 5000
<b>Semester Fee</b>			
-Academic	Rs. 32500	-Academic	Rs. 15000
-Student service	Rs. 5000	-Student service	Rs. 5000
<b>Total payable at the time of admission for day scholar</b>	<b>Rs. 50500</b>	<b>Total payable at the time of admission for day scholar</b>	<b>Rs. 33000</b>
<b>Additional fee for hostel facilities at the time of admission:</b>			
Refundable security		Rs. 5000	
Hostel fees (Annual)		Rs. 10000	
Hostel and mess establishment charges (Annual)		Rs. 8000	
Mess advance		Rs. 2500	
<b>Total additional sum payable for hostel facilities</b>		<b>Rs. 25500</b>	

#### Note:

1. Revision in the fees, if any, will be notified on the website [www.pec.ac.in](http://www.pec.ac.in) / [www.chdenggadmissions.nic.in](http://www.chdenggadmissions.nic.in). Candidates are requested to check fee structure prior to attending counseling.
2. The mode of payment is Cash / Demand Draft in favour of Director, PEC University of Technology, Chandigarh.

### FEE FOR SELF SUPPORTING PROGRAMMES (Computer Science & Engineering-Information Security, Industrial Design, TQEM)

A fee of Rs. 25000/- per semester in addition to the above shall be payable by each student of ME Computer Science & Engineering (Information Security), Industrial Design, TQEM. It is to be deposited alongwith the regular semester fee. No GATE scholarship will be awarded through the institute in case of M.E. Computer Science & Engineering-Information Security, Industrial Design, TQEM.

#### NOTE

The total fee for TQEM programme will be the same as for other self supporting programmes but **spread over six semesters instead of four.**

## **REFUND RULES**

1. The refundable deposits will be fully refunded whenever the student withdraws his admission from the institute.
2. If a student after being granted admission pays the fee but does not register with the institute on the prescribed date, withdraws his admission and applies for refund, the entire fee paid by him/her shall be refunded.
3. 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 05.08.2011 to Dean Academic Affairs with copy to concerned Head of the Department, his/her admission fee of Rs.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).
4. A student who withdraws his/her seat after the second and final counseling for admissions for the year has taken place, will not be entitled to refund of any fee paid by him/her except for the refundable deposits.

## **General Notes:**

1. In case a hosteller leaves the hostel at any time to suit his own convenience, the hostel fee paid by him/her will not be refunded.
2. Fees will also be charged for the additional period which a student may have to spend beyond the normal duration of the programme.
3. For obtaining refund of relevant component of fee deposit, the concerned student should obtain clearance certificate from various Departments/ Hostels/ Mess/ Office concerned before leaving the institute and also intimate the latest address on which the amount of security is to be remitted. However, a clearance certificate (except from Hostels, if applicable) is not required if a student has not attended any class till the date of his surrendering the seat and produces a certificate to that effect from the Head of the respective Department.
4. Light bulbs in the hostel rooms are not provided or replaced by the institute.
5. Any student who fails to pay the dues by the prescribed date may be fined, suspended or ultimately removed from the institute rolls.
6. Registration in every semester is mandatory.
7. For other details the Academic Rules for PG Programmes on the institute website may be seen.
8. The deductions for Punjab Engineering College Old Students' Association (PECOSA) shall be made as per request from President PECOSA and shall be credited into the bank account of PECOSA.

## **ANNEXURE-I**

### **SYLLABI FOR ENTRANCE TESTS FOR VARIOUS M.E. PROGRAMMES**

*The test will be objective type with multiple choice questions and of one hour duration. The candidate shall secure minimum qualifying marks to be eligible for Admission (as decided by the PEC University of Technology).*

#### **M.E. ELECTRONICS PROGRAMME:**

Basic electronics, Digital electronics, 8085 Microprocessor, Communication systems, Electrical machines, 'C' Programming

#### **M.E. COMPUTER SCIENCE AND ENGINEERING PROGRAMME AND M.E. COMPUTER SCIENCE & ENGINEERING (INFORMATION SECURITY)**

Data Structures, Computer Hardware & Architecture, Digital Electronics, Operating Systems, Computer Networks (80%), Data bases  
Algebra & Discrete Mathematics, Aptitude Test, Logical Reasoning (20%),

#### **M.E. INDUSTRIAL MATERIALS AND METTALURGICAL ENGINEERING PROGRAMME:**

Mechanical Testing of metals and alloys - Hardness, Impact test, Tensile Test, Fatigue and Creep Test. Crystal Structure, Poly crystalline materials, Crystals defects; Phase diagrams Fe-C, Cu-Ni, Pb-Sn, Al-Si. Solidification of metals and alloys, Corrosion types and prevention, Basic principles of thermodynamics, Thermodynamics of solutions, Pearlitic, Bainitic and Martensitic – Transformation, Heat treatment of steels- Annealing, Normalizing, Hardening, Tempering, Hardenability, Precipitation Hardening, Melting and Casting - Pouring, Gating & risering, inoculation, shrinkage, melting, furnaces, defects in casting, composites, ceramics - structure, property & applications, Mechanical working of metals, Powder metallurgy.

#### **ME ELECTRICAL ENGINEERING PROGRAMME:**

Basic Electric and Electronic Circuits, Power Systems, electrical Machines, electrical Measuring Instrument and Instrumentation, Control Systems, Power Electronics and Drives, Digital electronic and Microprocessors.

#### **M.E. PRODUCTION AND INDUSTRIAL ENGINEERING PROGRAMME:**

Solid mechanics, Principles of Design, Manufacturing technology and Industrial engineering.

## **ME HIGHWAYS, IRRIGATION AND HYDRAULICS, & STRUCTURAL ENGINEERING PROGRAMMES:**

### **Section – I**

#### **General:**

Building Materials & Construction, General Technology, Solid Mechanics , Surveying , Fluid Mechanics, Estimating & Costing , Soil Mechanics, Water Supply & Waste Water Engg.

### **Section - II**

Structures: Structural Analysis – determinate & indeterminate Structures, Design of Steel and R.C.C. structures, Structures, Pre- Stressed Concrete Structures.

### **Section - III**

Highways: Geometric Design, Pavement Designs, Traffic Engg, Railways, Airports & Tunneling

### **Section- IV**

Irrigation & Hydraulics: Dams, Open Channels, Hydraulics, Hydrology, Hydro Power, Irrigation Engineering Econ of water resources Engg. Ground Water.

**Note:** For allocation of specialization branch of the choice, the candidate will be required to secure the minimum qualifying marks in the respective section i.e. Structure ,Highway, Irrigation & Hydraulics (as decided by the PEC University of Technology)

## **M.E. HIGHWAYS, IRRIGATION AND HYDRAULICS, STRUCTURAL ENGINEERING PROGRAMME:**

Building Materials & Construction, Solid Mechanics, Structural Analysis, Design of Steel Structures, Design of Concrete and Masonry Structures, Construction Practice, Planning and Management, Soil Mechanics & Foundation Engg., Water Supply and Waste Water Engg., Surveying, Transportation Engg., Fluid Mechanics and Water Resources Engg.

## **M.E. ENVIRONMENTAL ENGINEERING PROGRAMME:**

Water, its importance, Quality and Quantity of water, Sources of water, Water Pollution; Surface and Ground water pollution, Effects of polluted water, Water and waste water treatment. Air pollution, Different air pollutants in atmosphere and their sources and health effects. Fundamentals of noise pollution.

## **M.E. MECHANICAL ENGINEERING PROGRAMME:**

Principles of Solid Mechanics, Principles of Fluid Mechanics, Principles of Thermodynamics, Manufacturing Sciences, Principles of Design, Basics of Industrial Engg., Theory of Machines.

## **M.E. INDUSTRIAL DESIGN:**

Visual Perception, Creative Ability, Introduction to Manufacturing & Materials, Principles of Design

## **TOTAL QUALITY ENGINEERING AND MANAGEMENT:**

Quality Gurus, Quality theories, application Implementation basics, Basics of Quality tools, Energy Conservation, Green and Environmental Quality, Safety with Quality, Basics of Standardization, Accreditation for Quality (ISO 9001:2008), Health, Manufacturing, Education Quality

## SCHEDULE OF TEST FOR ME ADMISSIONS SESSION 2011-12

**LAST DATE FOR RECEIPT OF APPLICATIONS** : **17.06.2011**

**TEST FOR NON-GATE AND NON-PARENT BRANCH CANDIDATES (Refer Table 2)** : **04.07.2011**

Sr. No.	Name of Programme to appear in the test	Name of branch of B.E.	Time
1.	Civil Engineering (Highways, Irrigation & Hydraulics, Structures)	B.E. Civil Engg.	9.00 to 10.00 A.M.
2.	Environmental Engineering	BE. Civil Engg. or any branch of Engg. / B.Arch / M.Sc in Environment Science	12.45 to 1.45 P.M.
3.	Industrial Materials & Metallurgy	Metallurgy, Mechanical Engg., Production Engg., Material Engg., M.Sc. Material Science	9.00 to 10.00 A.M.
4.	Computer Science & Engineering	Computer Sc. & Engg./Information Technology/Electronics & Communication/ Electronics & Electrical Communication/Electrical Engineering (For Part-Time / Sponsored categories only)	9.00 to 10.00 A.M.
5.	Computer Science & Engineering (Information Security) (Self supporting programme )	Computer Sc. & Engg./Information Technology/Electronics & Communication/ Electronics & Electrical Communication/Electrical Engineering (For all candidates)	-do-
6.	Electronics Engineering	Electronics & Elect Comm.(for part time / sponsored candidates only)	10.15 to 11.15 A.M.
7.	Total Quality Engineering and Management (TQEM) (Self supporting programme )	All Branches of Engineering and Technology	03.30 to 04.30 P.M.
8.	Production & Industrial Engineering	Production / Production & Industrial / Mechanical Engg.	10.15 to 11.15 A.M.
9.	Mechanical Engineering	Mechanical, Aeronautical, Production, Production & Industrial Engineering	11.30 a.m. to 12.30 P.M.
10.	Electrical Engineering	Electrical Engineering.	11.30 a.m. to 12.30 P.M.
11.	Industrial Design (Self supporting programme )	All branches of Engineering and Technology	02.00 to 03.00 P.M.

**COUNSELING IN RESPECTIVE DEPARTMENTS FOR GATE CANDIATES** **05.07.2011**

**COUNSELING FOR REMAINING GATE AND NON-GATE CANDIDATES** **06.07.2011**

**2ND & LAST COUNSELING FOR VACANT SEATS** **05.08.2011**

**Note: However the Director PEC University of Technology reserves the right to change the schedule without prior notice. The candidates are advised to visit PEC University of Technology website [www.pec.ac.in](http://www.pec.ac.in) from time to time for any change in the schedule.**

The candidates have to produce ORIGINAL DOCUMENTS at the time of counseling. If offered admission, they will be required to deposit the institute dues immediately.