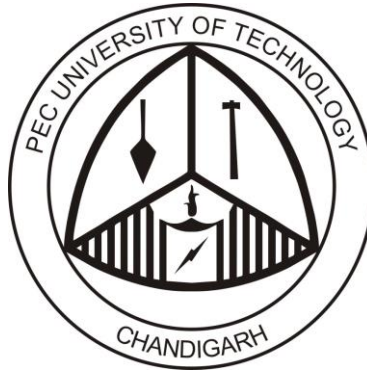


PEC UNIVERSITY OF TECHNOLOGY

(Formerly Punjab Engineering College)

CHANDIGARH



Admission Brochure

2014-15

For Admission to M.E. Programmes

Registration Fee : Rs. 1200/- (non refundable)

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Location: Sector 12, Chandigarh-160012

EPABX Nos. : 2753051, 2753060, 2753063, 2753064

FAX: (0172) 2745175; 2748197

Website: 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. **Last date for online registration is 25.06.2014 upto 5.00 P.M.**
4. A common Engineering Proficiency Test (EPT) for all Non-GATE candidates will be conducted on 17.07.2014 for an M.E. programme accepting non-GATE candidates (See Annexure-I for syllabi). Candidates shall appear in the Engineering Proficiency Test (EPT) / report for admission at their own expenses.
5. All the candidates desirous of taking admission in any of the ME programmes are required to register online on website <http://pgadmissionspec.nic.in>. A non refundable registration cum counselling fee of Rs. 1200/- (Rs One thousand two hundred only) is to be deposited online in the form of e-challan, debit card / credit card etc.
6. **All those candidates who are provisionally admitted in any of the online counseling rounds are required to deposit an amount of Rs. 33250/- (Rs. Thirty three thousand two hundred fifty only) to confirm their admission. This fee is also to be deposited online in the form of e-challan, debit card / credit card etc.**
7. Physical reporting of the admitted candidates will take place in the institute auditorium as per the schedule. After verification of original documents, the candidates will be required to deposit the balance fee (if required) in the form of Demand Draft in favor of "Director, PEC University of Technology, Chandigarh" payable at Chandigarh.
8. **The admission of those candidates, who do not produce all the original certificates or pay the balance fee during the Physical reporting, shall stand automatically cancelled. No correspondence or appeals in this connection will be entertained. No relaxation in time will be given for arranging the money or for bringing the original certificates from another place.**
9. **If any seats are left vacant after the third round of online counselling, the same will be offered to non-GATE candidates on the basis of their merit in the Engineering Proficiency Test (EPT). However, preference will be given to left over GATE candidates.**
10. All admissions to M.E. programmes shall be provisional and subject to approval by the Chairman Senate of PEC University of Technology.
11. All full time sponsored and Part time sponsored candidates will have to appear in the Engineering Proficiency Test (EPT) conducted by the Institute and qualify the same.
12. **The candidate should bring all the original certificates and one set of self attested photocopies to be produced at the time of Physical reporting as per the schedule.**
13. **Only those candidates who have passed their pre-final year/cleared all subjects up to 7th semester exam and appeared / passed in their qualifying exam (8th semester) should apply for admission. In case the results are awaited, they should furnish an undertaking as per Annexure-B given in this brochure at the time of physical reporting.**
14. **Academic registration of all admitted candidates will take place in the institute on 28th July 2014. It is mandatory to attend classes regularly after registration. In case a candidate fails to attend classes continuously for one week, his admission will be cancelled and this seat will be offered for**

admission in the last manual round on 08.08.2014. The fees paid by such candidates will be refunded as per the rules of the Institute.

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 (Transportation Engg.)
2. Civil Engineering (Water Resources Engg.)
3. Civil Engineering (Structures)
4. Environmental Engineering
5. Electrical Engineering
6. Mechanical Engineering
7. Electronics Engineering
8. Electronics (VLSI Design)
9. Industrial Materials and Metallurgy.
10. Production and Industrial Engineering
11. Computer Science .and Engineering
12. Computer Science and Engineering (Information Security) on self supporting basis.
13. Industrial Design on self supporting basis.
14. Total Quality Engineering and Management (TQEM).This is a self-supporting six Semester Evening programme. 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 of the above (except TQEM programme) are available for the **Part time (Sponsored)** students for whom **the duration of the programme shall be three years.**

II 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, Electronics (VLSI Design) and Mechanical Engineering programmes is reserved for the candidates sponsored by 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.	M. E. Programme	SC	ST	PwD	Geni	Total	Supernumerary Seats	
							Candidates sponsored by Central/State Govt. Autonomous bodies/Public Ltd. Companies/AICTE recognized institutes	Part-time
1.	Civil Engineering (Structures)	3	2	1*	12	18	3	2
2.	Civil Engineering (Transportation Engg.)	3	1	1*	13	18	3	2
3.	Civil Engineering (Water Resources Engg.)	3	1	1*	13	18	3	2
4.	Computer Science & Engg.	4	2	1*	18	25	3	2
5.	Computer Science & Engg. (Information Security) (on self-supporting basis)	3	2	1*	19	25	3	2
6.	Electrical Engineering	4	2	1*	18	25	3	2
7.	Electronics Engineering	4	2	1*	18	25	3	2
8.	Electronics (VLSI Design)	3	1	1*	13	18	3	2
9.	Environmental Engineering	2	1	1*	14	18	3	2
10.	Industrial Design (on self-supporting basis)	2	1	0	15	18	3	2
11.	Industrial Materials and Metallurgy Engineering	3	2	0	13	18	3	2
12.	Mechanical Engineering	4	2	0	19	25	3	2
13.	Production and Industrial Engineering	3	2	0	13	18	3	2
14.	Total Quality Engineering and Management (TQEM) (on self-supporting basis)	2	1	0	15	18	3	-
TOTAL		43	22	9	213	287	42	26

*** On yearly rotation basis amongst all the programmes.**

NOTE:

1. The total number of seats and their subsequent distribution within various categories and branches may be changed without prior notice.
2. The minimum number of students 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.
3. TQEM 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.

III ADMISSION PROCEDURE AND REGISTRATION

1. The admission to all the ME programmes, except for serial No. 5,10 and 14 in Table - 1, 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 some of these M.E. programmes provided seats remain vacant after considering all the GATE qualified applicants for admission (also see clause 2 below), except for serial No.4, 6, 7, and 8 (Table - 1) in which NON-GATE qualified candidates will be eligible for admission only against Full Time sponsored / Part-time Sponsored seats.
2. Candidates, who hold a B.E./B.Tech. Degree in the eligible branches pertaining to the ME programme to which they are seeking admission but do not have a valid GATE score (See Table-2), will be eligible for admission on the basis of their merit in the common Engineering Proficiency Test (EPT) to be conducted by the Institute.
3. All the candidates applying for any of the self-supporting programmes (Sr.No. 5, 10 and 14 in Table - 1) will have to appear in the common Engineering Proficiency Test (EPT) conducted by the Institute as per schedule.

4. ELIGIBILITY CRITERION 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 examination conducted by Institution of Engineers (India), Calcutta, or I.E.T.E. Graduate Examination conducted by the Institution of Electronics and Telecommunication Engineers, New Delhi, in the relevant branch or equivalent examinations of Professional Societies, recognized by MHRD / UPSC / AICTE (e.g. AMIE by Institution of Engineers-India, AMICE by the Institute of Civil Engineers-India) and must possess at least five years research / professional experience.

The candidate must possess qualifying degree with at least 60% marks or equivalent CGPA with 5% relaxation for SC/ST and Persons with disability (PwD) category candidates.

The percentage marks would be as awarded by the respective university from which the candidate has graduated. 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 10 to obtain the percentage of marks.

Candidates who do not possess B.E./B.Tech. Degree at the time of Physical reporting will be given provisional admission. Such candidates will be required to give an undertaking that they would be submitting original degree and detailed marks certificates latest by 30th September 2014.

Additional Requirements for Sponsored/Part-time Candidates

- I. An applicant for a **Full time Sponsored (Two years Duration)** seat must have a minimum of two years full time work experience, as on the last date of receipt of applications, 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 only in 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.
- II. An applicant seeking **part-time sponsored (Three year duration)** admission must have a minimum of two years full time work experience, as on the last date of receipt of completed application form, with minimum one year 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.
- III. 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 (Annexure –A) of proceeding on leave from their parent organization.
- IV. If a Full time sponsored/part-time sponsored 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 Eligible B.E./B.Tech. Disciplines for various M.E. Programmes

Sr. No.	M. E. Programme	B.E/B.Tech or equivalent branches of Engineering.	Basis of Inter-se merit	(Code) Eligible GATE papers
1.	Civil Engineering. (Transportation Engg.)	<ul style="list-style-type: none"> • Civil Engineering 	<ol style="list-style-type: none"> 1. GATE Score 2. Entrance test for non-GATE candidates 	CE (Civil Engineering)
2.	Civil Engineering (Water Resources Engg.)	<ul style="list-style-type: none"> • Civil Engineering 	<ol style="list-style-type: none"> 1. GATE Score 2. Entrance test for non-GATE candidates 	CE (Civil Engineering)
3.	Civil Engineering (Structures)	<ul style="list-style-type: none"> • Civil Engineering 	<ol style="list-style-type: none"> 1. GATE Score 2. Entrance test for non-GATE candidates 	CE (Civil Engineering)
4.	Environmental Engineering	<ul style="list-style-type: none"> • Civil Engineering • Environmental Engineering • Agricultural Engineering • Chemical Engineering • Biotechnology 	<ol style="list-style-type: none"> 1. GATE Score 2. Entrance test for non-GATE candidates 	CE (Civil Engineering) AG (Agricultural Engineering) CH (Chemical Engineering) BT (Biotechnology)
5.	Mechanical Engineering	<ul style="list-style-type: none"> • Mechanical Engineering • Aeronautical Engineering • Production Engineering • Production & Industrial Engineering • Aerospace Engineering 	<ol style="list-style-type: none"> 1. GATE Score 2. Entrance test for non-GATE candidates. 	ME(Mechanical Engineering) AE (Aerospace Engineering) PI (Production and Industrial Engineering)
6.	Electrical Engineering	<ul style="list-style-type: none"> • Electrical Engineering • Electrical and Electronics Engineering 	<ol style="list-style-type: none"> 1. GATE Score 2. Entrance test for sponsored /Part time non-GATE candidates. 	EE (Electrical Engineering)
7.	Electronics Engineering	<ul style="list-style-type: none"> • Electronics & Electrical Communication Engineering • Electronics & Communication Engineering • Electronics & Tele-communication Engineering 	<ol style="list-style-type: none"> 1. GATE Score 2. Entrance test for sponsored /Part time candidates. 	EC (Electronics and Communication Engineering)
8.	Electronics (VLSI Design)	<ul style="list-style-type: none"> • Electronics & Electrical Communication 	<ol style="list-style-type: none"> 1. GATE Score 	EC (Electronics and Communication Engineering)

		Engineering <ul style="list-style-type: none"> • Electronics & Communication Engineering • Electronics & Tele-communication Engineering 	2. Entrance test for sponsored /Part time candidates.	
9.	Computer Science & Engineering	<ul style="list-style-type: none"> • Computer Science & Engineering • Information Technology 	1. GATE Score 2. Entrance test for sponsored /Part time candidates.	CS (Computer Science and Information Technology)
10.	Industrial Materials and Metallurgy	<ul style="list-style-type: none"> • Metallurgy Materials Engineering • Mechanical Engineering • Production Engineering • M. Sc. Material Science. 	1. GATE Score 2. Entrance test for non-GATE candidates	MT (Metallurgical Engineering) ME(Mechanical Engineering) PI (Production and Industrial Engineering) XE - C (Material Science)
11.	Production & Industrial Engineering	<ul style="list-style-type: none"> • Production Engineering • Industrial Engineering • Production & Industrial Engineering • Mechanical Engineering 	1. GATE Score 2. Entrance test for non-GATE candidates	PI (Production and Industrial Engineering) ME (Mechanical Engineering)
12.	Computer Science & Engineering (Information Security) (Self-supporting programme)	<ul style="list-style-type: none"> • Computer Science & Engineering • Information Technology • Electronics and Communication Engineering 	Entrance test for all candidates	Not Applicable
13.	Industrial Design (Self-supporting Programme)	<ul style="list-style-type: none"> • All Branches of Engineering and Technology 	Entrance test for all candidates	Not Applicable
14.	Total Quality Engineering and Management (TQEM) (Self-supporting Programme)	<ul style="list-style-type: none"> • All Branches of Engineering and Technology 	Entrance test for all candidates	Not Applicable

Note : @ Non-GATE candidates shall not be eligible for admission to M.E. programme in Electrical Engg., Electronics Engg., Electronics (VLSI Design) and Computer Science & Engg. except for full time sponsored / Part-Time sponsored seats for which they will have to appear in the common Engineering Proficiency Test (EPT) to be conducted by the institute.

All full time sponsored and Part time sponsored candidates will have to appear in the Engineering Proficiency Test (EPT) conducted by the Institute and qualify the same.

5. COUNSELLING and ADMISSION PROCESS

Submission of Applications on <http://www.pgadmissionspec.nic.in>

Online Registration, Payment of Registration Fee

- 1 All the eligible candidates have to fill online Application Form. After successful submission, a unique Application Number will be generated.
- 2 Candidates have to login using unique Application Number and Password opted during Application Form filling for further activities.
- 3 After logged-in, candidates have to upload the scanned images of Photograph, Signature and documents (GATE Score Card, Final Year/Semester marks-sheet) with following restrictions.
 - 3.1 All scanned images should be in **jpg/jpeg** format only.
 - 3.2 Size of the photo image must be greater than 4 kb and less than 100 kb.
 - 3.3 Size of the signature image must be greater than 1 kb and less than 30 kb.
 - 3.4 Dimension of photograph image should be 3.5 cm(width) x 4.5 cm(Height) only.
 - 3.5 Dimension of signature image should be 3.5 cm(length) x 1.5 cm(Height) only.
 - 3.6 The scanned images of GATE Score Card should not be less than 50 kb.
 - 3.7 The scanned images of Final Year/Semester marks-sheet should not be less than 50 kb.
- 4 Payment of Fee:

After successful submission of Application Form and uploading of images and documents, candidates are required to pay Registration Fee of Rs. 1200/- (Non-Refundable) through Debit Card/ Credit Card, e-Challan.
- 5 Online Choice Filling
 - 5.1 All the successful registered candidates are required to submit their choices of M.E. programme in order of their preference.
 - 5.2 Candidates can fill in as many choices in the order of preference as they wish to from the list of available choices.
 - 5.3 **For GATE-Qualified Candidates:** List of available M.E. Programmes will be based on GATE Paper and B.Tech Discipline as per Table -2.
 - 5.4 **For Non-GATE Candidates:** List of available M.E. Programmes will be based on B.Tech Discipline as per Table- 2 .
 - 5.5 After successfully completing the registration and choice filling, a Confirmation Page will be generated. Candidates are required to download the Confirmation page for their future reference. The confirmation page is not required to be sent to the institute.

Note: All Non-GATE candidates have to appear in common Engineering Proficiency Test (EPT) conducted by PEC University of Technology, Chandigarh.

6 Seat Allotment – General Rules

- 6.1 During this step, the choices submitted by the candidates will be processed centrally and seats will be allotted as per merit. The allotment result will be published on the website.
- 6.2 Result of seat allotment will be accessible only after login by the candidate. If a seat is allotted then seat allotment details will be displayed on the screen.
- 6.3 Candidates, who are allotted a seat in the first round of seat allotment, will be required to complete the following activities:
 - a. Have to pay the online admission fee an amount of Rs. 33,250/- through Debit Card/ Credit Card/ e-Challan.
 - b. Online Provisional Admission letter (containing seat allotment detail, fee payment detail) will be generated after completion of steps (a).
- 6.4 Candidates, who are allotted a seat in subsequent rounds for the first time, will be required to complete the activities described in section 6.3.
- 6.5 Those candidates whose fee payment status is confirmed will be treated as successfully reported candidates against allotted seats.
- 6.6 Candidates who get seat allotment first time in any of the first three rounds and who **do not pay** the admission fee (Rs. 33,250 /-), then their allotted seat will be **automatically cancelled** and will not be considered for subsequent rounds of Seat Allotment.
- 6.7 A candidate who is offered a seat under different reservation categories shall be considered for allotment in general category in subsequent rounds/iterations subject to the eligibility and availability of vacant seats.
- 6.8 Candidates who at any stage, withdraw their provisional admission, will **not be considered** for subsequent rounds of Seat Allotment.
- 6.9 Those candidates who are eligible in multiple M. E. programmes are required to submit a single set of combined choices. The choices will be processed based on respective programme wise rank and the best option will be finally allotted to candidate.

7 First Round of Seat Allotment

- 7.1 Only GATE **qualified** candidates will be processed in this round.
- 7.2 All the choices submitted by candidates, will be processed centrally and the results will be available on the website.
- 7.3 Successful candidates are required to pay the admission fee (Rs. 33,250/-) as described in earlier, *failing which their allotted seat will be automatically cancelled and candidate will not be considered for subsequent rounds of Seat Allotment.*
- 7.4 Payment of fee using any one of the modes will be treated as reporting against allotted seat.
- 7.5 Vacant seats will be displayed for 2nd round of seat allotment based on the reported candidates.

8 Second Round of Seat Allotment

- 8.1 No fresh **registrations** or choice modification would be allowed in this round.
- 8.2 Only GATE qualified candidates will be processed in this round.
- 8.3 **Who is Not Eligible** : The following types of candidates are not eligible
 - a. Not paid Admission Fee after 1st round of seat allotment
 - b. Withdrawal after getting admission

8.4 Who is eligible: The following types of candidates are eligible

- a. **Type–I:** Registered candidates who were not allotted seat in the 1st round.
- b. **Type–II:** Candidates who were allotted a seat in the 1st round of allotment and paid the admission fee. **A new seat may be allotted or previous seat will be retained.**

8.5 Vacancy publishing after 2nd round of seat allotment.

9 Third Round of Seat Allotment

9.1 No fresh **registrations** or choice modification would be allowed in this round.

9.2 Only GATE qualified candidates will be processed in this round.

9.3 Who is Not Eligible : The following types of candidates are not eligible

- a. Not paid Admission Fee after 2nd round of seat allotment
- b. Withdrawal after getting admission

9.4 Who is eligible: The following types of candidates are eligible

- a. **Type–I:** Registered candidates who were not allotted seat in the earlier two rounds.
- b. **Type–II:** Candidates who were allotted a seat in the 1st round or 2nd round of allotment and paid the admission fee. **A new seat may be allotted or previous seat will be retained.**

9.5 Vacancy publishing after 3rd round of seat allotment.

10 Fourth Round of Seat Allotment

10.1 No fresh **registrations** or choice modification would be allowed in this round.

10.2 In the 4th round of **seat** allotment, **GATE** and **Non-GATE** candidates will be processed.

10.3 The choices **submitted** during Registration will be processed in this round.

10.4 Who is Not Eligible : The following types of candidates are not eligible

- a. Not paid Admission Fee after 3rd round of seat allotment
- b. Withdrawal after getting admission

10.5 Who is eligible: The following types of candidates are eligible

- a. **Type–I:** Registered candidates who were not allotted seat in the earlier rounds.
- b. **Type–II:** Candidates who were allotted a seat in the earlier three rounds of allotment and paid the admission fee. **A new seat may be allotted or previous seat will be retained.**
- c. **Type-III: All** those non-GATE candidates who have appeared in entrance examination conducted by PEC and got the RANK.

6. **VERIFICATION OF ORIGINAL DOCUMENTS AT THE TIME OF ADMISSION**

The original documents and the receipt of online payment of fee will be verified during the physical reporting in the institute on the given date. Further, the original documents EXCEPT THE GATE SCORE CARD shall be returned to the candidate after confirmation of the candidate's admission.

7. **REGISTRATION OF ADMITTED M.E STUDENTS:**

It is mandatory for all newly admitted candidates of various ME programmes to register themselves in the respective departments on the given date failing which their seat will be cancelled.

8. **PROCEDURE FOR FILLING UP OF RESERVED CATEGORY SEATS**

1. Person with Disability (PwD) category

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 bring a Medical Certificate of handicap, in the prescribed performa (Annexure – D), from a Government Gazetted Medical Officer, for preliminary screening during the Physical reporting. If this certificate is not produced, the admission of the candidate under this category will be immediately cancelled.

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 PwD candidates are 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 in the Fourth round.

2. Full time sponsored / part-time sponsored category

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

3. Scheduled Castes / Scheduled Tribes (S.C./S.T.) category

An applicant seeking admission under these reserved categories has to submit his/her caste certificate (Annexure - C) from the competent authority at the time of physical reporting. The admission of S.C./S.T. candidates will be subject to subsequent verification of their caste /tribe certificate by the issuing authority.

If a seat belonging to the S.C. category remains unfilled, it will first be made open to the S.T. category candidates, *and vice-versa*. Only after all the eligible candidates in both the S.C. and S.T. categories have been considered, a vacant seat belonging to any of these categories, will be offered to a General Category candidate.

IV INTER-SE MERIT FOR ADMISSION

(a) GATE-qualified candidates

1. The inter-se merit of the candidates seeking admission to a particular M.E. programme will be decided by their GATE score in the relevant GATE paper.
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.

(b) Non GATE candidates

1. The merit for Non GATE candidates will be based on the Engineering Proficiency Test (EPT) to be conducted by the institute. 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.

Important Note:

1. Non GATE candidates shall not be eligible for admission to the M.E. programme in Electrical Engineering, Electronics Engineering, Electronics (VLSI Design) and Computer Science & Engineering except for the Full time sponsored / Part-time sponsored seats, for which they will have to appear in the common Engineering Proficiency Test (EPT) to be conducted by the Institute.

V 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/she 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.
5. **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.
6. **Attendance:** All students must have minimum attendance of 75% of the total number of classes including lectures, tutorials and practicals, held in a course in order to be eligible to appear in the end term examination for that course. A student should meet the above attendance requirement irrespective of number of days he/she misses classes due to medical or any other reason what so ever.

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

VI SCHOLARSHIPS

1. 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.
2. 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.
3. 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.
4. 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.
5. Unsatisfactory progress/misconduct of a student during the programme may result in discontinuation of scholarship.
6. 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 (DAPC) 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. Scholarship during first semester will be given on the basis of valid GATE score.
 - iii. Scholarship during second semester will be given if the student obtains SGPA ≥ 6.5 in the first semester examination.
 - iv. If a student does not obtain SGPA ≥ 6.5 in the first semester exam but subsequently obtains SGPA ≥ 6.5 in 2nd semester exam, he/she will get scholarship for 3rd semester.
 - v. Wherever there are theory courses and thesis project both, then scholarship in 4th semester will be given if the student obtains SGPA ≥ 6.5 and minimum qualifying marks in thesis works in the 3rd semester .
 - vi. He / she will not leave the program midway or appear in any competitive examination not related to Engineering and Technology.

NOTE:

1. For students admitted in case of self supporting M.E. programmes (i.e., M.E. Computer Science & Engineering (**Information Security**), M.E. (Industrial Design) and M.E. (TQEM), GATE scholarships through the institute are NOT available.
2. Limited number of scholarships **under** TEQIP-II and Centre of Excellence (CoE) in Industrial and Product Design may be available for the non-GATE admitted candidates.

VII. FEES AND EXPENSES

The institute fees include the following:

Fees & Registration:

	Non-GATE Candidates	For GATE qualified candidates (Excluding Self-Supporting M.E. Programme)	Self-Supporting M.E. Programme
One time (at Admission only)			
Admission Fee	Rs. 3000	Rs. 3000	Rs. 3000
One time student service fee	Rs. 5000	Rs. 5000	Rs. 5000
Refundable Deposit	Rs. 5000	Rs. 5000	Rs. 5000
Semester Fees			
Academic	Rs. 35000	Rs. 15000	Rs. 57,500
Other facilities & services	Rs. 5250	Rs. 5250	Rs. 5250
Total payable at the time of admission (for day scholar)	Rs. 53250	Rs. 33250	Rs. 75,750
Additional fee for hostel facilities at the time of admission:			
Refundable security		Rs. 5000	
Hostel fees (Annual)		Rs. 13,000	
Hostel and mess establishment charges (Annual)		Rs. 16,800	
Mess advance		Rs. 2500	
Total additional sum payable for hostel facilities		Rs. 37,300	

Note:

1. Revision in the fees, if any, will be notified on the website www.pec.ac.in / www.pgadmissionspec.nic.in. Candidates are requested to check fee structure prior to attending counseling.
2. The mode of payment is online through Debit Card/ Credit Card/ e-Challan and remaining amount if any will be paid in the form of Demand Draft in favour of Director, PEC University of Technology, Chandigarh.
3. Every student has to be a part of the medical insurance policy for which a fixed premium is to be paid.
4. The total fee for TQEM programme will be the same as for other self supporting programmes but **spread over six semesters instead of four.**

VIII REFUND RULES

1. 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 after deducting Rs 1000/- as processing fee.
2. 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 to Dean Academic Affairs with copy to concerned Head of the Department, his/her processing fee of Rs.1,000/- 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).
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 third counseling for admission to Dean Academic Affairs with copy to concerned Head of the Department, his/her processing fee of Rs.1,000/- 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).
5. A student who withdraws his/her seat after the final counseling for admissions for the year 2014-15 has taken place, he/she will not be entitled to refund of any fee paid by him/her except for the refundable deposits.
6. The refundable security and other refundable deposits (if any) will be fully refunded whenever the student withdraws his admission from the institute.

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. Any student who fails to pay the dues by the prescribed date may be fined, suspended or ultimately removed from the institute rolls.
5. Registration in every semester is mandatory.
6. For other details, the Academic Rules and Procedures for PG Programmes may be referred .
7. 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.

SCHEDULE OF COMMON ENGINEERING PROFICIENCY TEST FOR NON-GATE CANDIDATES FOR M.E. ADMISSIONS (SESSION 2014-15)

Date of Test:17.07.2014 , Time : 10.00 AM to 12.00 AM

Schedule and venue of the common proficiency test will be uploaded on website on 16.07.2014. The admit card for appearing in the test should be downloaded by the candidates from the web site.

All NON-GATE candidates are also required bring the confirmation page along with the fee receipt on 17.07.2014.

Note: The schedule may change without prior notice. The candidates are therefore advised to visit PEC University of Technology website www.pec.ac.in and <http://pgadmissionspec.nic.in> from time to time for any change in the schedule.

Annexure - I

Syllabus for Common Engineering Proficiency Test for admission to various M.E. programmes

General Aptitude:

Logical Reasoning: Deductive Logical Statements, Data Sufficiency, Logical Diagrams, Number and Letter Series, Age, Time and Calendar, Series Completion, Sitting Arrangement, Logical Sequence, Logical Matching, Logical Connections, Blood and Family Relationships, Coding and Decoding, Number Analogy, Series of Direction and Data Interpretation (Tables and Graphs).

Communication skills:

Paragraph Comprehension, Vocabulary Based (Synonyms & Antonyms), English Usage (Grammar): Subject Verb Agreement, Use of Modifier/Articles/Prepositions, Sentence Correction, Meaning – Usage Match, Sentence/Paragraph Completion, Conjunctions, Word Analogy and Reverse Analogy.

Mathematics:

Function of one variable, simple double and triple integrals, Convergence and divergence of series, Tests of convergence, Raabe's test, logarithmic test, Cauchy's root test and Gauss test, Periodic functions, Euler's formula. Even and odd functions, Fourier series of different wave forms. Matrix algebra: Rank of a matrix. Elementary transformation, Gauss-Jordan method to find inverse of a matrix, Eigen values, Eigen vectors, Cayley-Hamilton Theorem, Hermitian and similar matrices. Concept of limit and continuity of a function of two variables, partial derivatives, total differential, differentiation of an implicit function, Jacobian Taylor's and Maclaurin's series. Maxima and minima of a function of two variables: Lagrange's method of multipliers. Exact differential equation, Cauchy's homogeneous and Legendre's homogeneous linear differential equations. De-Moivre's theorem and its application, Real and Imaginary parts of exponential, Logarithmic, circular, inverse circular, hyperbolic, inverse hyperbolic functions of complex variable, Summation of trigonometric series. Laplace transforms of various standard functions, transform of derivatives and integrals, Transform of multiplication and division by t , convolution theorem, Laplace transform of unit step function.

Concept of materials:

Common engineering materials, steel, plastic, ferrous and non ferrous metals, Timber, Bricks, Cements, Concrete, conductor, semiconductor, insulator, magnetic, ferromagnetic and piezoelectric materials. Material selection criteria.

Solid mechanics and strength of materials:

Elastic constants, stress and strain, Hooke's law, Bending moment and shear force analysis, principal stresses and strains, Mohr's circle, simple bending theory, bending and shear stresses, torsion of circular shaft.

Fluid mechanics:

Fluid properties, pressure, thrust, buoyancy, principle of conservation of mass, moment and energy, Flow kinematics, potential flow, applications of momentum and Bernoulli's equation.

Environmental Engineering:

Sources of water supply, Water quality standard, basic unit processes and operations of water treatment, drinking water standard, water requirement, sewage and its treatment, quality and characteristics of wastewater. Types of pollutants, sources and impacts, effects of air pollution and control, air quality standard and limits. Noise pollution and standard, impact of noise, permissible limit, measurement and control of noise.

Thermodynamics, Cycles and IC Engines:

Open, closed and isolated systems, heat and work, zeroth, first and second law of thermodynamics, steady flow energy equation, application to non-flow and flow processes, properties of ideal gases and vapours, simple refrigeration cycle, Carnot cycle and Carnot heat engine, Joule cycle, Rankine cycle, Two stroke and four stroke Compression Ignition and Spark Ignition engines, Otto, diesel and dual cycles, pre-ignition and detonation, spark plug and injector, air standard efficiency.

Manufacturing Science and Engineering:

Basic manufacturing processes, their principles and applications, drawing and extrusion, die, investment and shell moulding, centrifugal casting, principle of fabrication processes, Arc and Gas welding, weldability, metal cutting processes, turning, drilling, boring, milling, grinding and finishing, production of flat surfaces, Basics concept on production planning and control.

Engineering Drawing and Graphics:

Orthographic projection, projection of oblique areas, reading of orthographic views, missing views and missing lines, dimensioning and their rules, isometric projection, projection of point, line and planes, elements of descriptive geometry, true length, shape, minimum distance and true angle. Introduction to AutoCAD, Simple drawing on AutoCAD.

Mechanism and Machines:

Definition, difference between mechanism and machine, simple and compound mechanism, kinematic pairs and chain, belt drive, gear and simple gear train, flywheel and governor, their functions and applications.

Basic Electrical and Electronic Engineering:

Kirchoff's laws, Thevenin's, Norton's and maximum power transfer theorems, application of theorems in AC & DC circuits; Series and parallel circuits, resistance, inductance and capacitance and their combinations in series & parallel, power factor; Principle, construction and operation of transformer; characteristics of DC generators and DC motors; Principle of operation of single and three phase induction motor, equivalent circuit, torque-speed characteristics; Principle of operation and applications of synchronous motor; Conductivity of semiconductor, theory of PN junction diode, and its V-I characteristics, breakdown in PN junction diode, special purpose diodes like zener diode, tunnel Diode, LED. Half wave, full wave & bridge rectifiers, filters, operation of NPN and PNP transistors, transistor as an amplifier and oscillators; Operating principles of measuring instruments, moving coil permanent magnet instruments, moving iron instruments; Classification and application of different transducers: resistive, inductive, capacitive transducers, linear variable differential transducers (LVDT), piezoelectric transducers, Hall-effect transducers, photoelectric transducers; Number system, logic gates, logic system and circuits ,OR, AND, NOT, NAND, EX-OR, EX-NOR gates, different types of flip-flops, R-S, J-K, D type, T type flip-flops.

Computer Science and Engineering:

Elements of computer processing, Operating Systems DOS, UNIX, Windows and Linux, Problem solving-algorithms and flowcharts; Hardware - CPU, Storage devices & media, VDU, I/O Devices. Various software; Basic program construction, Structure of a C program, Standard library functions arrays, Recursive techniques pointers, Array of pointers, memory allocation, Basic searching and sorting techniques, Elementary debugging tools and other IDE tools, Command line arguments, Compilation process. Console I/O (printf, scanf), preprocessor directives, Comments, Data types, Type conversions, Operators - arithmetic, Relational, Logical, Conditional, Increment/decrement, Library functions, Header files. Simple programs to demonstrate the use of constants, Variables, printf, scanf and operators.

Dates for M.E Admissions (2014-15)

Date of Advertisement	15.06.2014
Online Registration starts	18.06.2014 from 11.00 a.m
Last Date of online registration and fee payment.	25.06.2014 till 5.00 p.m
Last date for choice filling	27.06.2014 till 5.00 p.m
Publishing of final list of Eligible candidates	29.06.2014
First round of seat allotment for GATE candidates	01.07.2014
Online payment of Rs 33250/- fees	01.07.2014 to 03.07.14 up to 5.00 pm
Second Round of seat allotment for GATE candidates	05.07.2014
Online payment of Rs 33250/- fees	05.07.2014 and 06.07.14 up to 5.00 pm
Physical reporting in the institute auditorium by all the allotted candidates for verification of original documents.	08.07.2014 at 9.00 am
Third Round of seat allotment for GATE candidates	10.07.2014
Online payment of Rs 33250/- fees	10.07.2014 to 11.07.14 up to 5.00 pm
Physical reporting in the institute auditorium by all the allotted candidates for verification of original documents.	14.07.2014
Publication of vacant seats	15.07.2014
Written Test for Non – GATE candidates	17.07.2014
Publication of Merit list for Non-GATE candidates based on written test and seat allotment.	21.07.2014
Fourth round of seat allotment	23.07.2014
Online payment of Rs 33250/- fees	23.07.2014 and 24.07.2014 till 5.00 p.m
Physical reporting in the institute auditorium by the Non – GATE allotted candidates for verification of original documents and payment of balance fee in	25.07.2014 at 9.00 am

the form of DD in favour of "Director, PEC University of Technology" payable at Chandigarh.	
Academic registration	28.07.2014
Manual counselling for vacant seats, if any for all categories in the Institute Auditorium (Preference will be given to registered GATE qualified candidates)	08.08.2014 at 9.00 a.m

FORMAT FOR CERTIFICATE OF SPONSORSHIP FOR NOMINEES

Certified that _____
son/daughter of Shri _____ has been working
as _____ (Engineer/Teacher) on regular full time basis
in _____ (Department/Organization)
since _____ (date). His/her name is hereby sponsored for admission to M.E.
Degree Programme in* _____ Engineering at PEC
University of Technology, Chandigarh for the session _____. In case he/she is
selected for admission, he/she will be relieved of his/her duty and allowed to join the classes for
full duration of the said programme. If he/she leaves this Department/Organization during his/her
period of study, PEC University of Technology will be informed accordingly to cancel his/her
admission. Further certified that he/she shall continue to be an employee of this
Department/Organization and shall join back his/her duties after completing the programme.
Certified that this institute is approved by AICTE (only for an educational Institute).

Date: _____

(Signature & Seal of the employer)

* Both the branch and the department should be mentioned.

**CERTIFICATE FOR NON-DECLARATION OF RESULT
(Required during registration from candidates whose result of the qualifying examination has not been declared)**

I hereby certify that Mr./Ms. _____ has appeared in the final semester examination including theory, practical and project examination for B.E./B.Tech./M.Sc. _____ degree (strike out the non-applicable ones and write in the blank space if the degree is not mentioned) and the result is likely to be announced by _____ 2014. The percentage of aggregate marks/CGPA obtained by him/her in the pre-final year/up to 7th semester examination is _____. His/her conduct and character during his/her stay at the Institute/University/College was "GOOD".

Place: _____
Date: _____

Signature of the Principal/Dean/Registrar/
Dy. Registrar/Proctor/Administrative Officer/
Asstt. Registrar of the institute last attended with seal

CERTIFICATE OF CASTE

(to be submitted by Scheduled Castes/Scheduled Tribes candidates only)

Certified that Mr./Ms. _____,
son/daughter of Shri _____, resident
of _____, District _____, State _____ is a member of the
Scheduled Castes/Tribes and belongs to _____ caste/tribe which
has been recognized as a Scheduled Caste/Tribe vide notification
No. _____ dated _____ issued by
Government of _____ (State).

Name of the
Certifying Officer _____
Designation _____
Date _____ Seal _____

Signature of the Revenue Officer of the
District concerned, not below the rank
of Tehsildar

Note: Certificate, if issued by other than authority mentioned, notification of Government must be included.

CERTIFICATE FOR PERSON WITH DISABILITY (PwD)

to be issued by

MEDICAL BOARD, GENERAL HOSPITAL, SECTOR 16, CHANDIGARH

1. Name of the candidate: Mr./Ms. _____

2. Father's Name: _____

3. Permanent Address: _____

4. Percentage loss of earning capacity (*in words*):

Affix recent
passport size
photograph duly
attested by the
P.M.O.

4. Whether the candidate is otherwise able to carry on the studies and perform the duties of an engineer/architect satisfactorily: _____

5. Name of the disease causing handicap: _____

6. Whether handicap is temporary or permanent: _____

8. Whether handicap is progressive or non-progressive : _____

9. The candidate is FIT / UNFIT to pursue the engineering/architecture studies.
(Strike out whichever is not applicable)

Member (Orthopaedic Specialist)	Member	Principal Medical Officer General Hospital, Sector 16, Chandigarh
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Date:

Seal of Office

NOTE:

1. The medical board must have one orthopaedic specialist as its member.
2. Candidate having temporary or progressive handicap will not be considered against these seats.

SELF ATTESTED COPIES OF CERTIFICATES REQUIRED AT THE TIME OF PHYSICAL REPORTING

- 1 Date of birth (DOB) certificate or High School (Class 10) Certificate with DOB
- 2 Qualifying degree certificate
- 3 SC/ST Certificate
- 4 Certificate of Person with disability (Type of disability to be attached)
- 5 Sponsorship certificate for sponsored candidates
- 6 GATE score card
- 7 Copies of mark/grade sheets
- 8 No Objection/relieving Certificate from employer (for employed candidates)
- 9 Migration certificate from the institute attended last
- 10 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 this application form.

Note: Circle the enclosed documents.

.....
Signature of the candidate

PART - B *(To be filled by the Scrutiny Officers)*

1. Is the degree from an AICTE approved college/ university or recognized by UGC.
YES / NO
2. GATE qualified: YES / NO
3. GATE Score:
4. % obtained in qualifying degree :
5. For AMIE / IETE candidates:
 - (i) Whether passed Diploma before AMIE / IETE: YES / NO
 - (ii) Whether possesses 5 years experience: YES / NO
6. For Full time Sponsored candidates:

Whether possesses requisite 2 years experience in the sponsoring organization: YES / NO

7. For Part-time sponsored candidates:

Whether possesses two years full time work experience, as on the last date of receipt of completed application form, with minimum one year in the present organization : YES / NO

**8. If Person with disability , whether medical certificate attached
YES / NO**

9. Whether ELIGIBLE / INELIGIBLE:

10. Reasons if ineligible: _____

11. Deficient Documents, if any: _____

12. Any other remark: _____

Scrutiny officer (I)

Scrutiny officer (II)