

M.E / M.Tech P.G Degree Courses

RULES AND REGULATIONS

FOR THE

TWO YEAR P.G DEGREE COURSE IN ENGINEERING / TECHNOLOGY



**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY
(AUTONOMOUS)**

Gandipet, Hyderabad – 500 075, Andhra Pradesh, India

(with effect from 2013-14)

Chaitanya Bharathi Institute of Technology (Autonomous)

Gandipet, Hyderabad – 500 075, Andhra Pradesh, India

(Applicable to students of M.E / M.Tech Two Years P.G. Degree Course in Engineering / Technology admitted from the Academic Year 2013 -2014)

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01. ELIGIBILITY FOR ADMISSION

An applicant for admission to the M.E/M.Tech P.G. Degree course shall have one of the following qualifications:

- (a) A Bachelor's degree in Engineering/Technology as equivalent.
- (b) AMIE Degree or similar qualifications recognized by the UPSC as equivalent to the B.E/B.Tech.
- (c) Any other qualification which is recognized as equivalent to the Bachelor's Degree in Engineering/Technology.
- (d) For Computer Science and Engineering : Master's Degree holders in physics, Statistics, Mathematics, or Applied Statistics, Applied Physics, Geophysics and Computer Applications are also eligible (However, all candidates should have valid GATE score in CSE / IT only).
- (e) 85% of seats under each category are reserved for local candidates.

RULES & REGULATIONS

R.1 HOW TO APPLY

A candidate seeking admission into the M.E/M.Tech. P.G.Degree course shall apply in the prescribed form accompanied by fee prescribed by CBIT.

R.2 ADMISSION

- (a) An admission Committee duly constituted by APSCHE shall evaluate all the applications and select applicants for admission to the course based on their performance in the Graduate Aptitude Test for Engineering (GATE/PGECET). No students shall be admitted after two weeks of commencement of instruction of the course. In addition statutory provision of reservation will also apply.
- (b) No full time employee shall be admitted to the M.E./M.Tech course unless he/she shows proof of having taken leave for the period of the course.
- (c) Admission of sponsored candidates on a supernumerary basis shall be subject to the following conditions:
 - i) The candidate must have appeared and passed the GATE/PGECET examination.
 - ii) His application for admission is duly recommended by the sponsoring agency and forwarded to the CBIT. The sponsoring agency should be a Government Establishment or a reputed Private Undertaking.
 - iii) He should be a permanent employee of the sponsoring agency for atleast a period of two years.
 - iv) The sponsoring agency shall grant him leave for pursuing the course.
- (d) Candidates working on research projects under various schemes are also required to comply with R.2.c and subject to the permission of the Chief Investigator of the Project.
- (e) In case GATE qualified candidates are not available, the remaining seats, will be filled with non-gate candidates based on PGECET to be conducted by the APCHE.
- (f) For Full-time sponsored programmes admissions will be based on GATE/PGECET an entrance test to be conducted by the CBIT. Candidates with Two years experience in the relevant field after obtaining the qualifying degree are eligible. The sponsoring agency should be a Government Establishment or a Public Sector Undertaking or a reputed Private Undertaking. The sponsoring agency shall grant him leave for pursuing the course.

R.3 COURSES AND DURATION

- (a) (i) *The following M.E. courses of study are offered:*

Civil Engineering Department (CED):

Structural Engineering.

Electrical and Electronics Engineering Department (EEE):

Power Systems & Power Electronics

Electronics and Communication Engineering Department (ECE):

1. Communication Engineering 2. Embedded Systems & VLSI Design

Mechanical Engineering Department (MED):

1. CAD/ CAM 2. Thermal Engineering.

- (ii) *The following M.Tech courses of study are offered:*

Computer Science and Engineering Department (CSE):

Computer Science and Engineering

- (b) The duration of M.E./M.Tech (Full-Time) program is 4 semesters, consisting of two Semesters of course work (6 Cores + 6 Electives + 2 Labs + 2 Seminars) and two Semesters of Project / Dissertation work. The third semester comprises Project Seminar and Dissertation. The total period of study for the purpose of drawing the Fellowship amount (if eligible) shall not exceed 24 months. Each semester shall have 16 weeks of instructions.
- (c) On admission to a course of study, each student will be allotted a specialized area of study in that course based on the criteria given in R.2.a. No change of specialization is permitted after the admission is over.

R. 4 AWARD OF DEGREE

- (a) The P.G. Degree of M.E./M.Tech in the relevant course of study, will be conferred on candidates who has: (i) pursued a regular course of study of not less than two semesters of course work as prescribed hereunder and has passed all examinations in the subjects as prescribed in the Scheme of Examination and (ii) submitted and successfully defended his Project / Dissertation at the end of the fourth semester as prescribed in the Scheme of Examination.
- (b) A regular course of study for eligible to appear for any subject for which an examination is conducted at the end of the semester shall mean putting in an attendance of not less than 75% in each of the subjects registered during that semester.
- (c) Provided that in special cases and for sufficient causes shown, the Principal on the recommendation of the Head of the Department may condone the deficiency of not exceeding 10% attendance for ill-health when an application made for such a condonation is supported by a Medical Certificate issued by an authorized Medical officer. Absence not exceeding two weeks, for activities like N.S.S., Inter University Competitions and debates will be condoned if the candidate is sponsored by the CBIT for such activities.
- (d) If a candidate fails to secure the minimum of 75% attendance required in a subject he/she shall not be eligible to appear for the Semester Examination at the end of the semester in the subject. He/she shall be required to prosecute a 'regular course of study' in the subject again before appearing for the Semester Examination in that subject.
- (e) If a candidate fails to maintain a minimum of 40% attendance in at least three of the Theory subjects registered independently (excluding Seminar and Practicals) in the first semester following admission, he/she shall forfeit his/her seat in the course and the admission automatically stands cancelled.

R.5 COURSE REQUIREMENTS

- (a) The course requirements comprise of successful completion of a minimum of twelve theory subjects (6 cores + 6 electives), two practicals, two seminars, one project seminar (3rd Semester) and dissertation (3rd and 4th Semester).
- (b) Instruction in each Theory subject, Practical and Seminars shall be as per the approved scheme of Instructions.
- (c) A student, on being admitted to the M.E./M.Tech. Degree Courses shall be assigned to a faculty Advisor. With the approval of the Advisor, the student shall draw up a study plan to satisfy all the requirements, keeping in view the area of specialisation and then register for the Subjects/Courses.
- (d) A student is permitted to register for a maximum of Six Theory subjects, a Practical and Seminar in a semester. It is necessary to pursue a regular course of study in a minimum of three subjects in the semester of eligibility to draw the fellowship amount. Project/Dissertation shall be considered as equivalent to three theory subjects for the purpose of this. However, he/she shall not register for more than three subjects along with project.
- (e) The Registration of the candidates should be made within one week from the date of admission for the I – Semester and within one week from the date of commencement of classes for subsequent semesters.
- (f) A student is permitted to register for Project/Dissertation only if there are not more than three subjects as backlog from the previous semesters. Backlog for this purpose shall mean theory/practicals/seminars. A student who has successfully completed all the course requirements except Project/Dissertation may be permitted to work on his Project/Dissertation at the place of employment, any recognized Institution/R & D Organisation with the approval of the Head of the Department concerned and Head of the Organisation.
- (g) In the first fortnight of the third semester (for full time) a student shall seek a teacher of the Faculty of Engineering who will be willing to be his/her guide for Project / Dissertation and register for it, failing which, the Head of the Department shall assign a guide.
- (h) A student shall submit five copies of the Project Report / Dissertation prepared as per the format prescribed by the Faculty and approved by his / her guide on or before the date indicated in the Almanac.
- (i) The maximum duration for completing all requirements for obtaining the M.E / M.Tech., Degree shall be double the period of study from the date of admission.

Note:- For such of those candidates who have completed the course requirements but could not either clear backlog papers or submit the Project Report Dissertation within the stipulated period, an additional period of one year will be given to complete the same.

R-6 SCHEME OF EXAMINATION

- (a) All examinations of the Chaitanya Bharathi Institute of Technology (Autonomous) shall be held at Hyderabad and / or at such places and on such dates as may be notified.
- (b) Applications for permission to appear at a Semester Examination shall be made on the prescribed form along with the necessary certificates regarding attendance, practical work, etc., and the prescribed fee. The form and the prescribed for this purpose.
- (c) When a candidate's application is found in order and he/she is found eligible to appear at the Semester Examination, the Director of Evaluation shall furnish him/her with a Hall Ticket for the Examination and this Hall ticket shall be produced by the candidate before he/she can be admitted into the Examination Hall.
- (d) A candidate who fails to present himself / herself for the Examination for any reason whatsoever excepting shortage of attendance or who fails to pass the Examination shall not be entitled to claim refund of the whole or part of the Examination fee nor for the reservation of the same be held at the end of each semester only in the subjects offered during that semester.
- (e) The main Examinations shall be held at the end of each semester only in the subjects registered during that semester.
- (f) A student shall appear for the Semester Examination at the end of each semester only in the subjects registered during that semester.
- (g) A candidate who has been allowed to appear for the Main Examination may be permitted to re-appear in the subject at the subsequent Make-up Examination which shall be conducted within one month from the declaration of the result of the Main Examination.
- (h) A candidate who is unsuccessful at both the Main and Make-up Examinations or has not appeared at these Examinations in subject(s) shall register for the subject(s) again and pass the subject(s) elective (or) core as the case may be.
- (i) A candidate shall be deemed to have fully passed the Examination of a semester, if he/she secures not less than the minimum marks/ grade as prescribed. Minimum pass marks / grade in the end Examinations plus sessional marks shall be.

Each theory subject ----- 50% - 'D' Grade
 Each practical subject / Project Seminar ----- 50% - 'D' Grade
 Project/ Dissertation ----- 'D' Grade in End / Semester Examination
 Please see Table.1 for Letter Grade Points.

Table.1: Letter Grade Points.

Academic Performance	Letter grade	Grade points
90 % and above	S	10
80 % to 89 %	A	09
70 % to 79 %	B	08
60 % to 69 %	C	07
50 % to 59 %	D	06
Below 50%	E	00

- (j) The distribution of Marks/ Grade for the Sessional work and the Semester Examinations shall be as under:

Scheme of Instruction & Examination
M.E / M.Tech Four Semester Course (Regular) 2013-14

Sl.No.	Subject	Periods per week		Credits	Duration (Hrs.)	Max. Marks	
		L/T	D/P			Univ. Exam	Sessional
<u>SEMESTER – I</u>							
1.	Core	4	--	3	3	75	25
2.	Core	4	--	3	3	75	25
3.	Core / Elective	4	--	3	3	75	25
4.	Core / Elective	4	--	3	3	75	25
5.	Core / Elective	4	--	3	3	75	25
6.	Elective	4	--	3	3	75	25
7.	Lab – I	--	3	2	3	--	50
8.	Seminar – I	--	3	2	3	--	50
	Total	24	6	22		450	250
<u>SEMESTER – II</u>							
1.	Core	4	--	3	3	75	25
2.	Core / Elective	4	--	3	3	75	25
3.	Core / Elective	4	--	3	3	75	25
4.	Core / Elective	4	--	3	3	75	25
5.	Core / Elective	4	--	3	3	75	25
6.	Elective	4	--	3	3	75	25
7.	Lab – II	--	3	2	3	--	50
8.	Seminar – II	--	3	2	3	--	50
	Total	24	6	22		450	250
<u>SEMESTER – III</u>							
1.	Dissertation + Project Seminar	--	6	--	--	--	100**
<u>SEMESTER – IV</u>							
1.	Dissertation	--	--	--	Viva voce	Grade ***	--

Note: Six Core Subjects and Six Elective subjects should be completed by the end of Semester – II.

* One Project Seminar Presentation.

** 50 marks to be awarded by guide and 50 marks to be awarded by viva committee with guide and two internal faculty members.

*** Excellent / Good / Satisfactory / Unsatisfactory.

i) Theory question paper will have total 7 questions out of which candidate has to answer 5 questions including one compulsory question. This compulsory question consisting of 4 to 8 questions, which will cover the entire syllabus. All questions shall be of 15 marks each.

ii) Out of 25 sessional marks, 05 marks are allotted for assignments and the rest to be based on two internal tests, weightage for each test in 20 marks.

A student shall successfully complete all the course requirements to be eligible to submit the ME / M.Tech. Project Report / Dissertation and to take the Examination (Viva-Voce). ME / M.Tech dissertation can be inter disciplinary and need not be strictly in the same area of specialization.

The Project Report / Dissertation shall be Viva-Voce Committee consisting of the Head of department, the Chairman of the Board of Studies, Supervisor of the Candidate and one other Expert Members in the subject to be nominated by the Chairman, Board of Studies and who could be either from the Department or from outside in regard to the conduct of Viva-voce. Examination for M.E./ M.Tech. Project Report / dissertation. The Chairman, Board of Studies is the Chairman of the Viva-Voce committee. The Viva Voce will be conducted once every semester (Twice in an academic year) as per the Almanac given by the Principal.

The Viva-Voce committee will give a comprehensive report indicating the adequacy or otherwise of the Project Report / Dissertation. The candidate will revise the thesis as per recommendations of the Board of Examiners and submit the corrected copy along with point by point reply to the examiners' report which should be duly verified and certified by the supervisors and Head of the Department before forwarding for evaluation by external to the Examination Branch. After incorporating the recommendations of the Viva-Voce Committee, the student would proceed to prepare the Project Report / Dissertation. Once prepared, it will be sent to the controller of Examinations for valuation by an external examiner along with the comprehensive report. The Controller of Examinations will arrange to get the Project Report / dissertation valued by an External Examiner. Report of the External Examiner will be final for declaration of result without again referring to the Department, unless the External Examiner suggests that the viva committee, he/she has to appear once again for the viva-voce examination as per almanac.

In case of any revision suggested by the external examiner, the candidate will submit the revised Project Report / Dissertation, incorporating the suggestions made by the External Examiner through the Head of the Dept. and Supervisor to the Controller of Examinations for taking necessary action.

R-7 GRADING SYSTEM

1. Candidates who have passed all the examinations of the M.E/ M.Tech Degree Course shall be awarded Division in accordance with the grade secured by them in all the I and II Semester Examinations of M.E/ M.Tech I and II years, taken together, including the sessional marks secured in those years.

The grade secured shall be shown in the memorandum of marks as per the performance in End Examinations including sessional marks.

A minimum Cumulative Grade Point Average (CGPA) of 5 is required for the award of Degree. The consolidated memorandum of marks will reflect the credits / grade scored in each subject.

2. Semester Grade Point Average (SGPA) & CGPA Calculation:

Two internal tests will be conducted in a semester. Each test will be of 20 Marks, 6 marks for Part-A consisting of objective / short answer questions and 14 marks for Part-B consisting of subjective questions. The average of two tests plus marks obtained in assignments out of 5 marks will be taken as sessional marks.

$$(a) \text{ SGPA} = \frac{\sum (\text{Letter Grade Point}) \times (\text{Credits})}{\sum (\text{Credits})}$$

SGPA is calculated only when all subjects in that semester are Passed.

$$(b) \text{ CGPA} = \frac{\sum (\text{SGPA}) \times (\text{Credits})}{\sum (\text{Total Credits})}$$

CGPA is calculated only when total credits earned are equal to total credits prescribed as per scheme up to a Semester in which the candidate has last appeared for End Examination.

R-8 AWARD OF DEGREE

The degree of Master of Engineering / Technology will be conferred on candidate who has pursued a regular course of study of Two academic years as hereinafter prescribed in the scheme of instruction and has passed all the examinations as prescribed in the scheme of examinations

1. Award of Division

CGPA	Division
8.0 and above	First Class with Distinction
6.5 and less than 8.0	First division
5.5 and less than 6.5	Second division
5.0 and less than 5.5	Pass division

2. Award of Gold Medal

A student securing highest CGPA in single attempt is eligible for award of Gold Medal in each course of study of M.E/ M.Tech.

R-9 GENERAL RULES OF EXAMINATIONS

- Application for permission to appear at every examination shall be made on the prescribed form, accompanied by three passport size full face photographs (not profile) which along with the necessary certificates regarding attendance, practical work, etc., and the prescribed fee, should be sent to the Principal, Chaitanya Bharathi Institute of Technology (Autonomous), Gandipet, Hyderabad – 500 075 on or before the date fixed for this purpose.
- When a candidate's application is found in order and he/she is eligible to appear at an Examination, the Director of Evaluation, Examination Cell, Chaitanya Bharathi Institute of Technology (Autonomous) shall furnish him/her with a Hall-Ticket with the photograph affixed to it, enabling the candidate to appear in the Examination and this Hall-Ticket shall have to be produced by the Candidate before he/she is admitted to the premises where the Examination is being held.

3. A Candidate who does not present himself/herself for the examination for any reason whatsoever, excepting shortage of attendance, shall not be entitled to claim refund of the whole or part of the examination fee, for subsequent Examination(s).
4. A candidate after he/she has been declared successful in the whole examination, shall be given a certificate setting forth the year of examination, the subjects in which he/she was examined and, the overall grade secured.
5. No candidate shall be allowed to put in attendance for a course or appear at examinations for different degrees and different faculties at one and the same time.
6. Students who have appeared once at any examination of the course need not put in fresh attendance, if they wish to reappear at the corresponding examination, notwithstanding the fact that the College may have introduced new subjects. They will, however, have to appear at the examinations according to the scheme of examination and syllabi in force.

R-10 TRANSITORY REGULATIONS

Whenever a course or scheme of instruction is changed in a particular year, two more examinations immediately following thereafter shall be conducted according to the old syllabi / regulations. Candidates not appearing at the examinations or failing in them shall take the examination subsequently according to the changed syllabi / regulations.

All the rules and regulations, specified herein after shall be read as whole for the purpose of interpretation and when a doubt arises, the interpretation of the Chairman, Academic Council, Chaitanya Bharathi Institute of Technology (Autonomous) is final. As per the requirements of the Statutory Bodies, Principal, Chaitanya Bharathi Institute of Technology (Autonomous), shall be the Chairman of the College Academic Council.
