



APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

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No. KTU/AR(ACADEMIC-1)/807/2017

Dated: 30.12.2017

CIRCULAR

Sub:- APJAKTU - General Guidelines for Comprehensive Examination and Elective Courses - Instructions - Reg.

Ref :- _____

General Guidelines for Comprehensive Examination and Elective Courses regarding registration to Sixth semester B.Tech Programmes is attached herewith. All Principals of affiliated colleges are directed to strictly comply with the same.

Dr. J. SREEKUMAR *

Dean (Academic)

To

1. The Principals of all affiliated colleges
2. The E-governance Team.

Copy to :

VC / PVC / Registrar / CE / Dean(Academic) / Director (Academic) / DR (Exam.) / DR (Admn.) / JD(IT)

* This is a computer system (Digital File) generated letter. Hence there is no need for a physical signature.



GENERAL GUIDELINES ON B.Tech COMPREHENSIVE EXAMINATION

1. The comprehensive examination is conducted to assess student's general engineering knowledge. Through such an examination, students are exposed to the process of selection by the employers. Further this examination is not meant for testing again the depth of knowledge in all subjects that has been covered so far, as this has been done through regular examinations in the concerned semesters. However, to make the comprehensive examination focussed, there is the need to give the guidelines regarding this examination procedure.
2. As mentioned in the regulations, comprehensive examination is conducted in two stages each having 50 marks. One is an objective test to assess the general engineering knowledge the student has gained. For this the subject coverage is to be specified based on the courses completed so far. Majority of the questions shall be from the respective engineering branch courses (80%) and the rest from common engineering courses completed in the first two semesters. Specific courses will be listed out by the University for the students to focus their attention on them.
3. The courses for the written exam will be (i) MA101 Calculus (1 question) (ii) MA102 Differential equations (1 question) (iii) BE100 Engineering Mechanics (2 questions) (iv) BE110 Engineering Graphics (2 questions) (v) BE103 Introduction to Sustainable Engineering (2 questions) (vi) BE102 Design & Engineering (2 questions) (vii) Branch specific core courses (no advanced courses) - 1 course from S3, 2 courses from S4 and 3 courses from S5 - 40 questions (minimum 6 questions from each course).
4. A model question paper will be prepared by the University for each branch of study. The questions will be objective type with 4 possible answers from which the correct one is to be marked by the students. No questions on formula derivation and questions needing solutions using them are expected to be asked. However the terms in the formulae and their units will be covered. Sketches of any system will be given to identify the mistakes or correct the mistakes in them. Questions on assessing "engineering thinking" ability will be there
5. The other part is an oral examination normally covering about 10 questions. The oral exam will cover all courses so far completed (including practical courses and Design Project). Care is to be taken not to ask those questions already given for the written test. External examiner from the industry will be more meaningful and purposeful. The external examiner from industry shall have minimum B.Tech degree in the concerned branch and 5 years experience.
6. The University will set the objective question paper for each branch and the examination and evaluation will be done by the respective departments, in all the colleges. This examination will be conducted in a single day announced by the University, after 2nd internal test. The answer papers are to be evaluated by the respective departments by two different examiners. The marks (Univ exam marks) are to be uploaded by the college in the web portal within the specified date. The answer sheets are to be packed and kept safe in the Dept with attendance sheet for 12 months for random inspection by the University.



7. For the oral examination, each department/college can arrange it as per their convenience. Oral examination shall be conducted at the rate of 3 students/hour. The maximum marks for oral exam is 50. The details on the constitution of the oral examination committee are given in the regulations. It can be conducted weekly for batch of students or towards the end of the semester for the whole class.
8. At the end of the semester, the marks for the oral examination are to be forwarded to the University for final grading and result announcement. The marks for oral examination are to be uploaded as internal marks along with the internal marks of other courses. One of the faculty members of the Dept in the committee has to be mapped in the portal for this purpose, at the time of course mapping.
9. The weekly 2 hours allotted for the course can be utilised for conducting oral examination by the committee or for conducting mock oral/written examination by the internal faculty or for discussing objective type questions in the class as per the convenience of the Dept.
10. All the documents including attendance statement signed by all the oral examination committee members shall be kept safe in the Dept for 12 months for inspection by the University.
11. Both oral and written examinations are mandatory. But separate minimum marks is not insisted for pass. If a student does not complete any of the two assessments, grade **I** will be awarded and the final grade will be given only after completion of both assessments.
12. Fee of Rs.200 per student will be collected at the time of course/exam registration.
13. The Department shall select the external examiner with the approval of the Principal.
14. The external examiner is eligible for TA and remuneration as per KTU norms.



GUIDELINES REGARDING ELECTIVE COURSES IN B.Tech Programme

1. There shall be minimum 10 students registered for an elective course in a college. If the no of students in a branch is more than 10, the maximum no of elective courses that can be offered is **Integer part of $\{1+ (\text{No of students in the branch}/20)\}$** . If the number of students in a branch is less than 20 only one elective can be offered.
2. The minimum number of elective courses to be offered by a college for a particular branch shall be **Integer part of $\{ 1 + (\text{No of students in the branch}/40)\}$**

The following table gives number of electives to be offered as per the above guidelines.

Total no of students in a branch in a semester	Min number of electives	Max no of electives
1-19	1	1
20- 39	1	2
40-59	2	3
60-79	2	4
80-99	3	5
100-119	3	6
120 and above	4	7

