KERALA TECHNOLOGICAL UNIVERSITY

CET Campus, Thiruvananthapuram, Kerala-695016

ORDINANCE

For

Bachelor of Technology B.Tech./B.Tech. (Honours)

In exercise of the Powers conferred under Clause 44 of the Ordinance, the Executive Committee of the University hereby promulgate the Ordinance for the University for the Academic Year 2015-2016.This Ordinance shall come into effect from the date of its publication in the Gazette.

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ii) The duration for the B. Tech. /B. Tech. (Honours) programme in all branches of study, will normally be 8 semesters.

iii) The maximum duration shall be six academic years spanning 12 semesters.

iv) Each semester shall have 72 instructional days, followed by end semester examinations.

v) A student can opt for B.Tech. (Honours) at the end of the fourth semester.

vi) The curriculum of any branch of the B. Tech. programme is designed to have a minimum of **180** academic credits and 2 additional pass/fail credits, for the award of the degree.

vii) The University follows Credit System and Credits are apportioned among the following knowledge segments.

B.Tech. Programme.
Knowledge Segments

Knowledge Segments	Credits	
Basic Sciences	] 10	[8 Theory+ 2 Labs]
Mathematics	16	
Humanities	9	
Basic Engineering	29	[25 Theory +4 Labs]
Professional Engineering	89	[80 Theory +9 Labs]
Electives	15	
Seminar	2	
Comprehensive Viva	2	
Design Project	2	
Project	6	
Total Academic Credits:	**180**	
Student's Activities	2	[Audit-Pass/Fail]
Total credits for B.Tech. Degree	182	

Credits are assigned to courses based on the following general pattern.

One credit for each lecture hour per week for one semester
One credit for each tutorial hour per week for one semester

One credit for each laboratory/ practical session of 2 or 3 hrs, per week for one semester

viii) In a semester normally up to six lecture based courses and three laboratory/practical courses, carrying a maximum credit of 26, could be offered.

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ix) University may allow students to transfer credits they have earned at other Universities and Academic Institutions, as per the guidelines given by the Academic Committee and approved by the Board of Governors.

x) Student Activities Points:

To be an engineer capable of competing globally, in addition to technical knowledge and skills, students should develop excellent soft skills, nurture team work and leadership qualities and have an entrepreneurial and trail blazing outlook. To achieve this, in addition to academics, students are to actively engage in co-curricular and extra-curricular activities. For such activities, points are allotted. On getting a minimum of 100 activity points the student passes the course and earns 2 credits which do not count for the CGPA but mandatory for the award of the degree. Listing of these activities and the maximum points that could be earned by engaging in them are given at the end of this document. Additional activities could be included in the list with the approval of the Academic Committee.

e. **Curriculum, List of Courses and Syllabi**

i) Every branch of study in the B.Tech., programme will have a curriculum, list of courses, syllabi and course plans approved by the Academic Committee of the University.

ii) Courses are categorized as Core Theory (CT), Core Practice (CP) and Electives (EL).

iii) Each course has a course number. Course number includes the offering department or knowledge segment code and a three digit number. Knowledge segment code is used when a course is offered by any one or more departments with the same course content and syllabus. Details on this are given under Rule, RU-1.

f. **Faculty Advisor/Counsellor**

All students shall have faculty advisors whose role will be:-
To guide and help students on academics
To monitor their progress in academics and advise them
To counsel them and hand-hold them in any difficulty

g. **Course Registration and Enrolment**

It is mandatory for students to register for the courses they want to attend in a semester. Students admitted freshly to the first semester, are advised to register for all courses listed for the semester. However they do not have to enrol for the

semester. All other students are required to register at the end of the semester for the courses they desire to take in the coming semester. They have to enrol for these courses at the beginning of the new semester, based on the previous semester results. This allows them to make changes in the list of courses already registered for. Before enrolment, students should clear all dues including any fees to be paid and should not have any disciplinary issues pending. The dates for registration and enrolment will be given in the academic calendar. Any late registration or enrolment, allowed up to 7 working days from the stipulated date, will attract a late fee.

A student can withdraw from a course or substitute one already registered by another on valid reasons with the approval of the faculty advisor. However this has to be done within seven working days from the commencement of the semester. The maximum number of credits a student can register in a semester is limited to 26.

h.   **Course Completion and Earning of Credits**

Students registered and later enrolled for a course have to attend the course regularly and meet the attendance rules of the university [RU-2] and appear for all the internal evaluation procedures for the completion of the course. Credits for the course are earned only on getting a pass grade in the composite evaluation.

i)   **Core courses, Prerequisites and Electives**

All courses listed in the curriculum, other than the electives, are core courses. Earning credits in the core courses is mandatory for the B. Tech. degree. For electives, failure to earn credits does not necessarily require repeating the course. Instead another approved elective is permitted as a replacement course by the faculty advisor concerned. For some courses there could be a prerequisite course completion requirement for registration.

J)   **Summer Courses**

Students who could not earn the required minimum credits at the end of the second or fourth semester have two options to continue with the studies. They may register again for the courses, when they are offered in the next academic year. However, there is also a provision to run summer courses in failed courses for these students who may register and attend the course and write the final examination. This provision is only for students who have got 45% or more in the internal evaluation for the courses they attended in the regular semester.

Students should have 75% attendance in the summer course to write the examination.

KERALA TECHNOLOGICAL UNIVERSITY

CET Campus, Thiruvananthapuram, Kerala -695 016

ORDINANCE

For

Master of Technology - M.Tech.

In exercise of the Powers conferred under Clause **44** of the Ordinance, the Executive Committee of the University hereby promulgate the Ordinance for the University for the Academic Year 2015-2016.

The Academic ordinance will come into effect from the date of publication in the Gazette.

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i)   The M. Tech programme in all streams of specialization will be structured on a credit based system following the semester pattern with continuous evaluation.

ii)   The University permits regular as well as external registration (part time) for those in employment.

iii) The duration for the M. Tech. programme in all streams of specialization will normally be 4 semesters. The maximum duration is 6 semesters.

iv)   For students admitted on external registration, the normal duration will be 6 semesters. Here the maximum duration is 7 semesters.

v)   The University permits a regular student to change over to external registration during
      the programme, under specific circumstances like initiating a start up venture or to take up a job.

vi)   Each semester shall have a minimum of 72 instruction days followed by the end semester examination.

vii) A common course structure for the M. Tech programmes in all streams of specialization is to be followed and consists of the following.
      Core Courses
      Elective Courses
      Laboratory Courses
      Seminar
      Project

viii) Every stream of specialisation in the M. Tech. programme will have a curriculum and syllabi for the courses. The curriculum should be so drawn up that the minimum number of credits for successful completion of the M. Tech. programme in any stream of specialization is not less than 64 and not more than 68.

Ix)   Credits are assigned as follows, for one semester
          1 credit for each lecture hour per week
          1 credit for each tutorial hour per week
          1 credit for each laboratory/ practical of 2 or 3 hours per week
          2 credits for the seminar
          2 credits for Mini Project
          6 credits for Project in the 3rd Semester
          12 credits for Project in the 4th Semester

x)   A pass is mandatory in all core courses. In case of failure in an elective course, there is the provision to choose another elective listed in the curriculum.

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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

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No. KTU/RESEARCH 4/6429/2019

Thiruvananthapuram
Thiruvananthapuram

Dated: 02.12.2019

CIRCULAR

Sub:- Regulations for the award of the Degree of Doctor of Philosophy by APJ Abdul Kalam Technological University (Amendments made upto 30.10.2019) - Reg

Ref :- 1. Regulations for the award of the Degree of Doctor of Philosophy by APJ Abdul Kalam Technological University
2. U.O.No.612/2019/KTU dated 24.11.2019
3. U.O.No.603/2019/KTU dated 21.11.2019
4. U.O.No. 270/2019/KTU dated Thiruvananthapuram 01.10.2019
5. Proceedings No. KTU/RESEARCH 2/ 1611/2015 dated 07.11.2017
6. Proceedings No. KTU/RESEARCH 2/1611/2015 dated 05.05.2018
7. Proceedings No. KTU/RESEARCH 2/1611/2015 dated 28.2.2019
8. U.O.No.KTU/A/1038/2016 dated 26.07.2016
9. U.O.No.434/2019/KTU dated 28.10.2019
10. U.O.No.625/2019/KTU dated 26.11.2019
11. Proceedings No. KTU/RESEARCH 2/ 1611/2015 (1) dated 07.11.2017
12. U.O.No.KTU/RESEARCH 2/1611/2015 dated 26.07.2016
13. U.O.No.602/2019/KTU dated 21.11.2019
14. U.O.No.652/2019/KTU dated 30.11.2019

The Regulations for the award of the Degree of Doctor of Philosophy by APJ Abdul Kalam Technological University, Kerala incorporating amendments made upto 30.10.2019, ordered vide papers read as (2) to (14) above, is attached herewith.

Dr. VRINDA V NAIR *
DEAN (Research)

To

1. All Research Centers
2. PS to VC/PS to PVC/PA to Registrar/PA's to Dean (Academic/Research)/PA to CE
3. E-Governance Wing (for publishing the same in the University Website)
4. Day File / Stock File

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

The DC is constituted by the Dean (Research) of the University.

Depending on the availability of experts and the area and nature of research, Dean(Research) of the University constitutes the Doctoral Committee normally from the panel of names provided by the academic head of the college/the university department. The constitution of the DC will be as follows:

Dean (Research) of the University or his/her nominee – Chairman

Academic Head of the College/University Department – Member & Convenor

Research Supervisor and Co-Supervisor (if any) – Member/s

Two faculty members of the Department/College with Doctoral Degree – Members

(Internal members)

Two faculty members/scientists with Doctoral Degree, from other organizations having specialisation in the scholar's research topic.– Members'

(External members)

In case any member goes on leave exceeding one year duration, or resigns or retires from the institute, and ceases to be a member of the Doctoral Committee, the Chairman of the Doctoral Committee, on recommendation of the academic head of the college and the research Supervisor shall nominate an alternate member.

9.2 Functions of the Doctoral Committee

(i)   Evaluation of research facilities at the place of research
(ii)   Recommending registration of the selected candidate for Ph. D. program
(iii)   Prescribing the course work for the research scholar
(iv)   Nomination and approval of Co-supervisor
(v)   Conduct of comprehensive viva of the scholar
(vi)   Progress review of the scholar's research work
(vii)   Nomination of thesis examiners
(viii) Review of the examiner's reports on the thesis
(ix)   Conduct of the oral examination

The meetings of the DC shall be convened atleast once a year in the first three years of registration of the candidate and a minimum of twice a year thereafter. It is mandatory that the chairman, research supervisor/s and atleast one internal member and one external member are participants in the DC meetings.'

10. Registration

The Doctoral Committee shall meet first normally within a month of being constituted, and not later than two months of admission of the candidate. The Doctoral Committee shall fix/approve the proposed research topic, the date of registration for the Ph. D. program, considering the recommendation of the research supervisor and prescribe/approve the courses of study in its first meeting.

11. Course Work

Doctoral Committee in its first meeting shall prescribe two compulsory courses and a basket of four electives to be undergone by the scholar. The scholar has to undergo any two of the courses from the basket of electives prescribed by the DC. Research Methodology is a compulsory course, if this has not been undergone in the Post Graduate programme by the research scholar. The number of courses
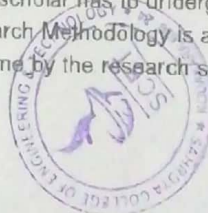
to be undergone by the research scholar over and above the minimum prescribed is at the discretion of the Doctoral Committee. The credit assigned to the course work shall be a minimum of 08 credits and a maximum of 16 credits.[1]

All courses shall be at the Post Graduate level of the college. In case no suitable courses are available, the Chairman of the DC may allow courses of allied departments/institutions. Offering of new courses by the Department suitable for the research may also be resorted to under exigencies of circumstances.

Scholars with MCA degree need to undergo 4 additional core courses from UG/PG Engineering Stream with a total of 12 credits to pursue research under a supervisor from Engineering/Technology area.[1]

The DC shall give credit to courses already undergone by the research scholar in the institution or in sister institutions in the past four years, provided that the course contents and the evaluation pattern are similar. Credit to courses, other than Research Methodology, already undergone by a research scholar will not be considered if they were credited for the award of any previous degree. UG courses, may be prescribed as additional courses. In all prescribed courses, the research scholar should attain overall 50% of marks with a minimum of 45% for internal as well as end-semester examinations[6].

12. Monitoring of Progress

A registered research scholar shall submit a written progress report in the prescribed format annually for the first three years, and every six months thereafter. It is the responsibility of the convener of the DC to arrange for the DC meetings regularly and on time. Scholars should submit progress report through the research Supervisor to the academic head of the college/university department and to the chairman and members of DC every semester. This should be done well in advance of the DC meeting for reviewing the progress of the scholar. On review/evaluation of the progress, the DC makes appropriate recommendations with regard to the research program. Continuance of registration and award/continuance of scholarship/research assistanceship (if any) will be based on the recommendation of the doctoral committee. Inadequacy of effort/progress shall be a reason for cancellation of registration.

13. Comprehensive examination

Every Ph. D. scholar shall appear for and perform satisfactorily in a Comprehensive Examination as evaluated by a duly appointed committee. The objective of the Comprehensive Examination is to test the general competence of the research scholar and the breadth of his/her knowledge in his/her discipline and areas related to his/her field of research.

The Comprehensive Examination shall be conducted by the Comprehensive Examination Committee, consisting of the Doctoral Committee members of the scholar and at least two other external members nominated by the Chairman of the doctoral committee. The comprehensive examination shall usually consist of a written test and an oral examination.

If the performance of a research scholar in the Comprehensive Examination in the first attempt is not satisfactory, he/she will be given one more opportunity to appear for the comprehensive examination within six months of the first attempt. If a candidate fails to clear the comprehensive exam in two attempts, his/her registration shall be cancelled. A candidate will be given two chances for written part and two chances for viva part for passing the comprehensive written and viva examinations[2].

The Comprehensive Examination committee shall intimate to the research scholar sufficiently in advance, the scope of the Comprehensive Examination, so as to enable the scholar to adequately prepare for it.

Research scholars are normally expected to complete the Comprehensive Examination successfully within a year of his/her registration for the programme and in any case not later than three semesters after the registration.