ANNEXURE 1

Regulation for B.Tech, 2019

Sandaya College of Engineering and Technology
P.B.No. 17. Kudakara, 680 684.



		6. Assess	ment			
R6.1	prescribed under the res 2 semesters. The End S	dester Examinations (ESE) in every semester for all courses as pective curriculum, except the Lab/ workshops courses for 1 & Gemester Examinations shall be conducted by the University, he completed at least ten days before the commencement of the ion.				
R6.2	session (for even seme	er Examinations (ESE) shall be held twice in a year – May/June semesters) and November/December session (for odd semesters). d Semester Examinations of the VII and VIII Semesters shall be the sessions.				
Candidates in each semester shall be evaluated both by Continuous Internal Evaluation (CIE) and End Semester Examinations (ESE). The ratio of Continuous Internal Evaluation (CIE) to End Semester Examinations (ESE) shall be as below: 1. Theory Courses : 1:2 2. Laboratory Courses : 1:1 3. Project : CIE only 4. Seminar : CIE only R6.4 Continuous Internal Evaluation (CIE)): The Continuous Internal Evaluation shall the basis of the day-to-day work, periodic tests (minimum two in a semester assignments (minimum two). The faculty member (s) concerned shall carry of Continuous Internal Evaluation (CIE) for the course allotted to him/her. The CIE for individual subjects shall be computed by giving weightage to the followed.						
		rwise specified in the curriculum.		. Assignment/ Class work/		
				Course project.		
	Theory	20%	50%	30%		
	Drawing/ Practical	20%	40% 40%			
	There shall be minimum two internal evaluation tests, each of 2hrs duration. Each test shall cover 50% of the syllabus and shall be for 50marks. Retest shall be					
	permitted to the stud	lents who could	not appear for th	he internal tests due to genuine		
	grounds. Three days	shall be utilised	for conducting th	ne internal evaluation test.		
	Project work	 a. Work assessed by the project guide – 30% b. Three member Continuous Internal Evaluation Committee – 40% (Guide shall be one member in the CIE committee) c. Final Evaluation by a three member Committee comprising of the department project coordinator, guide and an external expert. The external expert shall be an academician or from industry. The industry expert is preferred: 30% d. One third of the project credit shall be completed in VII semester and two third in VIII semester. 				

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	Seminar	The report and the presentation shall be evaluated by a team of internal members comprising three senior faculty members based on the style of presentation, technical content, adequacy of reference, depth of knowledge and overall quality of the report.
		a) Attendance : 10% b) Guide : 20% c) Technical content : 30% d) Presentation : 40%
	subject. If a student the attendance shat for all subjects commencement o	the attendance (20%) for each theory, practical and drawing shall be only if the candidate has secured 90% attendance or above in the at has attendance for a subject below 90%, reduction in the marks for all be made proportionally. The CIE marks obtained by the student in a semester are to be published at least 5 days before the of the University examinations. Duty leave shall be accounted for
R6.5	Students, who hexamination, shall (R6.6). They see examination at the course registration	have completed a course but could not write the end semester all be awarded "I' Grade, provided they meet other eligibility criteria hall register (exam registration) and appear for the end semester he next opportunity and earn the credits without having to register on) for the course again.
R6.6	for appearing for do not meet these	rility criteria for registering to the End Semester Examination are course and no pending disciplinary action. The minimum attendance the End Semester Examination is 75% in each course. Students who e eligibility criteria are awarded an FE grade.
R6.7	The students with which the course	h FE grade shall register for the courses during the normal semesters in es are offered. However, for the seventh and eighth semester FE grade ister for the courses in the next immediate chance, if offered by their
R6.8	A student who semester shall no	does not register for all the courses listed in the curriculum for a ot be eligible to enroll for the next higher semester.
R6.9	The maximum is semester is limit curriculum for t	number of credits a student can register (course registration) for, in a ted to 08 credits in excess of the total mandatory credits allotted in the hat semester.
R6.10	1. Fulfilled course. 2. Earned branch	be eligible for the award of B. Tech. Degree of the University on following requirements: d all the curriculum requirements within the stipulated duration of the the required minimum credits as specified in the curriculum for the of study (R3.6 and R3.7). ding disciplinary action.

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P.B. No.17.Kodakara.



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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- End Semester and Supplementary Examinations
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- r) Academic Auditing
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- t) Revaluation and Grade Improvement
- u) Grade Cards
- v) B. Tech Degree
- w) B. Tech. (Honours)
- x) Discipline
- y) Academic Discipline and Welfare Committee
- z) Grievances and Appeals Committee
- 8. Amendment to Ordinance/Regulations/Rules Rules to carry out the purpose of the Ordinance Addendum

Admission to Bachelor of Technology / B.Tech. / B.Tech. (Honours) 1.

- Eligibility for admission to the B.Tech., programme, admission policy and procedure a. shall be decided from time to time by following the guidelines issued by the Government of Kerala and the Government of India and other statutory body such as AICTE.
- Subject to Clause 1(a), Admission to B.Tech., shall be based on the guidelines given b. by the State and Central Governments on reservation. Candidates for admission to B.Tech., programme shall have passed the Higher Secondary Examination, Kerala or 12th Standard V.H.S.E., C.B.S.E., I.S.C or any other examination considered equivalent to the above mentioned ones. Other eligibility criteria for admission is currently prescribed by the Government of Kerala through Government orders which is based on the entrance examination conducted by the Commission for Entrance Examinations, Government of Kerala and the marks in the qualifying examination subject to the relaxations allowed for backward classes and other communities as specified from time to time.
- The Branches of study and number of students admitted are to be based on the C. approval by the All India Council for Technical Education and the Kerala Technological University.
- Notwithstanding all that is stated above, the admission policy may be modified from d. time to time by the University, particularly to confirm to directions from the Government of Kerala and the Government of India.

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e. The B.Tech., / B.Tech. (Honours) programme is a credit based programme. The duration of the B. Tech / B. Tech (Honours) programme will normally be four academic years spanning 8 semesters. The maximum duration shall be six academic years spanning 12 semesters.

2. Examination

- a. At the end of the semester, end semester examination will be conducted in all lecture based courses offered in the semester and will normally be of three hours duration, unless otherwise specified. Supplementary examinations shall be conducted before the commencement of the next semester, for students who are eligible and have registered for them.
- b. Students, who have completed a course but could not write the end semester examination for valid reasons like illness or personal exigencies, are allowed to write the supplementary examination or the end semester examination at the next opportunity and earn the credits without having to register for the course again provided they meet other eligibility criteria.
- c. The main eligibility criteria for the end semester examination are attendance in the course, internal marks and no pending disciplinary action. The minimum attendance for appearing for the end semester examination is 75% in each course. Further, the internal evaluation marks in the course should be 45% or above. Students who do not meet these eligibility criteria are awarded an FE grade and have to register for the course again.
- d. Students who could not write the end semester examination due to health reasons or other exigencies can register for the supplementary examination, with the approval of the principal provided they have 45% or above marks in the internal evaluations for the course. Candidates who received F grade can also write the supplementary examination. Grades awarded in the supplementary examination will be taken as the end semester grades in these courses.

3. Eligibility for Award of Degree

The award of B. Tech. / B. Tech. (Honours) degree shall be based on the recommendation of the Academic Committee and the approval of the Board of Governors and in accordance with the academic regulations, if any, issued for the said purpose by the University.

Award of B. Tech. Degree

A student will be eligible for the award of B. Tech. Degree of the University on satisfying the following requirements.

i) Earned credits for all the core courses and the Project.

ii) Earned the required minimum credits as specified in the curriculum for the branch of study.

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iii) . No pending disciplinary action.

Fee charged by the University

Fee charged for the programme shall be decided by the University from time to time and informed to all concerned for compliance.

5. Discipline of the student – Action against breach of discipline

Every college shall have a Student's Welfare Committee and a Disciplinary Action Committee, constituted by the Principal of the college. Each college should have a Grievance Redressal and Appeals Committee constituted by the Principal to address the grievances of the students and to consider their appeals on any decisions made by the college. Details on the constitution and terms of reference are outlined in 7-x, 7-y, and 7-z.

Breach of guidelines and unfair practices in Examinations

These are viewed seriously and appropriate actions are to be taken by the colleges as detailed in 7-x.

Language of Instruction and Examination.

Unless otherwise stated, the language of instruction and examinations shall be English.

b. Academic Calendar.

The University shall publish in its website the academic calendar for every academic semester indicating the commencement of the semester and beginning of instruction. It will specify the course registration and enrolment dates, the schedule for mandatory internal tests for theory courses, dates by which laboratory/practical evaluations are to be completed, date for finalization of internal marks, last instruction day in the semester, planned schedule of end semester examinations and result declaration as well as approved holidays falling within the semester. Schedules for the supplementary examinations and result declaration dates are to be included in the calendar. Summer course schedule and result declaration have also to be indicated in the calendar. Additionally colleges may publish their academic calendar, in line with the University academic calendar, indicating other schedules and events they plan to conduct during the semester.

c. Branches of B. Tech. Programmes.

The Branches of B. Tech. /B. Tech. (Honours) programme offered by the University are listed separately at the end of this Ordinance

d. B. Tech. Programme Structure

i) B. Tech. / B. Tech. (Honours) programme in all branches of study is structured on a credit based system following the semester pattern with continuous evaluation allowing flexibility for students to decide on the duration of programme completion.



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- The duration for the B. Tech. /B. Tech. (Honours) programme in all ii) branches of study, will normally be 8 semesters.
- iii) The maximum duration shall be six academic years spanning 12 semesters.
- Each semester shall have 72 instructional days, followed by end iv) semester examinations.
- A student can opt for B.Tech. (Honours) at the end of the fourth v) 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	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	ee 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

In a semester normally up to six lecture based courses and three viii) 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 extracurricular 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

COUNTRY SCET

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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.

Sahrdaya College of Engines/jij and Technology P.B.No.17 Kodel For the final grading their internal evaluation marks obtained in the regular semester in which they had undergone the course shall be applicable. Summer courses are to be conducted for a minimum of 20 contact hours for each course. Summer courses are to be offered only at the end of the second and fourth semesters for the courses covered till that semester. They will be conducted either by all colleges or only by some, depending on the number of students registering for them. Details of summer courses planned will be announced by the colleges after the declaration of the even semester results. Final examination for summer courses will be conducted by the University. Based on the availability of faculty and the number of students opting for courses, it will be the prerogative of the colleges to decide on the summer courses to be offered.

Options for the fifth and higher semesters

For higher semesters, i.e., fifth semester onwards, summer courses are not offered. Failed students who have less than 45% marks in internal assessments have to register again for the course in the regular semester in which it is offered and complete the course as per the regulations and appear for the end semester examination. Failed students having 45% marks or more in internal assessments have the option to register again for the course as mentioned above or register only for the end semester examination without attending the course again. A separate registration format will be available for this. This option is available in all semesters.

k) Contact Courses

If a student has to earn credits only just for one course to qualify for the degree after completing eight semesters of study, the college concerned may offer a contact course on a written request by the student. The contact course is considered as fresh registration and is to be offered by the teacher concerned who shall conduct the internal evaluation procedures and allot the marks as per the regulations. Minimum contact hours for the course shall be 20. The final examination will be conducted by the college and shall be monitored by the external academic auditor. Question paper for the examination will be given by the Controller of Examination. No grade above C shall be given for a contact course.

I) Academic Assessment/Evaluation

Academic Evaluation of Courses

University follows a continuous academic evaluation procedure.

Academic evaluation procedure and corresponding weights are as follows:-

a) For theory courses: - 1/3rd weightage for internal evaluation and 2/3rd for end semester examination courses:

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For convenience, the maximum marks for internal evaluation and end semester examination for theory courses are fixed as 50 and 100 respectively.

Scheme of evaluation is as follows.

- i) Two internal tests each of 20 marks and of one hour duration.
 (Internally by the College)
- ii) Tutorials/Assignments/Mini Projects carrying 10 marks. (Internally by the College)
- iii) End Semester examination carrying 100 marks. (Conducted by the University)

All the above evaluations are mandatory requirements to earn credits.

Students who have missed either the first or the second test can register with the consent of the faculty and the Head of the Department (HOD) concerned for a retest which shall be conducted soon after the completion of the second test, but before the end semester examination. The re-test will cover both first and second test course plans. Those who have missed both the tests are not eligible to appear for the end semester examination.

However if one misses both tests due to medical reasons or other personal exigencies, based on genuine evidence, a single test of 2 hour duration for 40 marks will be conducted covering the whole syllabus, before the end semester examinations. Decision on this will be taken by the Principal and verified by the external academic auditor.

- b) For Laboratory / Practical / Workshop courses
 - i) Practical records /Outputs 60 marks (Internally by the College)
 - ii) Regular class Viva 10 marks (Internally by the College)
 - iii) Final written test/quiz 30 marks (Internally by the College)

All the above assessments are mandatory to earn credits. If not, the student has to complete the course/assessments during his free time in consultation with the faculty members. On completion of these, grades will be assigned. In case the Practical /Laboratory/Workshop courses are not completed in the semester, grade I (incomplete) will be awarded against the course and the final grade will be given only after the completion of the course/assessments.

c) Comprehensive Examination

As students appear for placements from seventh semester onwards, comprehensive examination is to be completed in the sixth semester. This examination will be a written cum oral examination covering broadly all courses so far completed [RU-5].

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d) Seminar

Each student has to give a seminar on a professional topic of current interest in consultation with the faculty member in charge of the seminar in the Department. The seminar will be evaluated based on RU 6

e) Design Project

Each student or a group of students has to take up a decign project. The project topic could be arrived at in consultation with any faculty member in the department. The Evaluation of the project is to be done in two stages. Two project progress evaluations each carrying 20 marks and a final report evaluation and presentation of the project for 60 marks. The project supervisor and two other facedly members from the same or any other department, nominated by the Head of the Department form the evaluation board.

f) Final Semester Project

Students, either individually or in a small batch not exceeding four, have to do a project approved by their faculty supervisor.

Evaluation scheme is given below:-

i) Two progress assessments 20% by the faculty supervisor/s
ii) Final Project Report 30% by the Assessment Board

iii) Project presentation and Viva 50% by the Assessment Board

If the project work is not completed satisfactorily, the it ident has to put in more work and appear again for assessment on a specified date, not earlier than one month after the first evaluation. If the student fails in the project, a fresh registration for the project for one semester is mandatory.

The project assessment board shall consist of the following members.

Chairman: Head of the Department

Members: Project supervisor/s of the student

One faculty member from the Department

One faculty member from a sister Department

An external expert, either from an academic/research institute or industry

m) Eligibility to Continue

A student has to earn a minimum number of credits in a semester to be eligible to register for the new courses offered in the next semester. In odd semesters if this requirement is not met, the student is to be forewarned and allowed to continue to the next even semester. However at the end of even semesters this requirement will be strictly implemented. Summer courses are offered to those who do not satisfy this norm after the 2nd as well as the 4th semesters. Students who do not meet this requirement are not permitted to register for new courses in the higher semesters. They have to register for the failed courses in normal semesters in which



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URGENT

12.03.2020

CIRCULAR

In view of the earnest efforts of the Government of Kerala to control the spread of CORONA Virus, it was directed to close down all educational Institutions of our state till 31st March 2020. In line with the directions of our Government, the University has a result, our students are losing three weeks of academic working days. Since many of our final year students are already campus placed, they are expected to report in the selected organizations before the end of August 2020. In view of these persisting emergency situation and considering the best academic interest of our students, the University would like to propose the following:

- 1. The period from 12.03.2020 to 31.03.2020 may be treated as study leave for the University examinations as we are unable to allocate extra study period for the students thereafter. Hence, all students are requested to make use of this study period (12.03.2020 to 31.03.2020) effectively.
- 2. The examination calendar for this semester is slightly modified considering the emergency of the prevailing situation.
- 3. Faculty members are requested to rely on video lectures/online resources etc. during this study period. Please carry out continuous evaluation/internal assessment through the available online platforms to substitute classroom instructions planned during the days of closure.
- 4. Project seminars/viva voce/jury/presentation/evaluations etc. may be carried out through digital platforms, as far as possible. Students are to be encouraged to make video presentations of their project works.
- 5. Heads of Institutions are given the special privilege in this semester in adopting appropriate measures to compensate the lost working days in consultation with faculty and taking the students into confidence.
- 6. Heads of Institutions are entitled to take appropriate actions in the conduct of internal examinations, portions to be included in the internal examinations, and reaches etc. as a special case in this semester.
- 7. The results of the last odd semester examinations will be declared latest by 20.03.2020. Students are requested to effectively utilize this study period till 31st March 2020 to clear their pending arrears.

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REVISED ACADEMIC & EXAMINATION SCHEDULE

- The last working day for the even semester will be 05.05.2020.
- or before 13.05.2020. To avoid last minute rush, Institutions are requested to strictly comply with the timeline for uploading as:
 - S2: 08.05.2020; S8: 11.05.2020; S6: 12.05.2020; S4: 13.05.2020. No extension will be given if these dates are not complied with.
- The examination calendar already published will be shifted as such by seven days to
 enable the completion of the academic requirements. Accordingly, the date of
 commencement of examinations is shifted from 11.05.2020 to 18.05.2020. For details,
 please refer the revised examination schedule, which will be announced shortly.
- Any items, not mentioned in this circular, related with the academic activities of this semester, are left to the discretion of the Heads of Institutions.

The University is trying to publish the final year B.Tech results before 20th July 2020. In view of this tight schedule, all stakeholders are requested to fully cooperate with the University to tide over this situation.

DEAN ACADEMICS.

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