

TKM COLLEGE OF ENGINEERING

(Government Aided and Autonomous)

celebrating 60 years of excellence



Academic Regulations for B.Tech Programmes 2022

THANGAL KUNJU MUSALIAR COLLEGE OF ENGINEERING
(Government Aided and Autonomous)
KOLLAM-691005, KERALA

Abstract

TKMCE- Academics- B.Tech academic regulations 2022 -orders issued

No:ACU3/1071/2022

Date:01/10 /2022

Order

Read:

1. UGC order Ref: F. 22-1/2022(AC) dated 26th May 2022
2. U.O. No. KTU/ASST11(ADMIN)/3212/2022 dated 2nd September 2022
3. ACU3/1010/2022 dated 16th September 2022

The TKM College of Engineering was conferred with autonomous status by the UGC on 26th May 2022 vide Ref: 1 and the same was notified by the APJ Abdul Kalam Technological University, on 2nd September 2022, vide ref.2

The first meeting of the Governing Body after the notification of autonomous status was held on 15th September 2022, authorized the Principal to constitute the Academic council as per the UGC (Conferment of Autonomous Status upon Colleges and Measures for Maintenance of Standards in Autonomous Colleges) Regulations, 2018. As per the resolution of the Governing Body, the Principal has constituted the Academic council on 16th September 2022 vide ref.3. The first Academic council meeting held on 24th September 2022, approved the B.Tech Regulations for the academic year 2022-23. The academic regulations for the B.Tech programmes, 2022 approved by the Academic Council, is hereby notified as the **TKM College of Engineering (Aided and Autonomous) Academic Regulations for B.Tech Programmes 2022.**





PRINCIPAL
THANGAL KUNJU MUSALIAR
COLLEGE OF ENGINEERING
KOLLAM-5

Copy to: All HODs, Deans, IQAC, COE, AA, AO, SS, JS(A)

**TKM College of Engineering (Aided and Autonomous) Academic Regulations for
B.Tech Programmes 2022**

This will be known as **the TKM College of Engineering Academic Regulations for B.Tech Programmes 2022**. These are subject to the provisions of the UGC (Conferment of Autonomous Status upon Colleges and Measures for Maintenance of Standards in Autonomous Colleges) Regulations, 2018 and APJ Abdul Kalam Technological University Act, 2015, the statutes and ordinances if any issued in the subject from time to time. All the rules specified herein, approved by the Academic council, will be in force and applicable to students admitted from the Academic year 2022-23 onwards.




PRINCIPAL
THANGAL KUNJU MUSALIAR
COLLEGE OF ENGINEERING
KOLLAM-5

**TKM College of Engineering Academic Regulations for
B.Tech Programmes 2022**

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TKM College of Engineering Academic Regulations for B.Tech Programmes 2022

ACADEMIC PROGRAMMES

Nomenclature of the Programmes:

(a) The College uses the nomenclature for the Degree programmes as specified by the Affiliated University, and the Degree Certificates issued by the University to their awardees bear the name of the College as well. This helps in maintaining the identity of each programme conducted at the College and also ensures its accountability.

(b) Therefore, the nomenclatures and their abbreviations given below, shall continue to be used for the Degree programmes offered by the College:

UG Level:

(i) Bachelor of Technology (B.Tech) (ii) B.Tech (Honours).

Programmes Offered

TKM College of Engineering offers the following four-year B.Tech. Degree Programmes under the Parent University - APJ Abdul Kalam Technological University (APJAKTU), Thiruvananthapuram and are listed in the Table 1.

Table 1: B.Tech Programmes Offered

Sl. No.	Programme
1	Civil Engineering
2	Chemical Engineering
3	Computer Science and Engineering
4	Electronics and Communication Engineering
5	Electrical and Electronics Engineering
6	Electrical and Computer Engineering
7	Mechanical Engineering

1. Preamble	
R1.1	The College has the right to modify the regulations from time to time.
R1.2	In all matters related to the regulations, the decision of the College and its interpretation given by the Academic Council shall be final and binding.
2. Admission	
R2.1	Admission policy, eligibility for admission and admission procedure shall be decided by the competent statutory authority for admissions from time to time.
R2.2	If at any time after admission, it is found that a candidate has not fulfilled any of the requirements stipulated by the statutory body concerned, the Principal may revoke the admission of the candidate and report the matter to the Governing Body.
R2.3	No student shall be permitted, under any circumstances, to change the branch/stream to which he/she is admitted by the competent authority for admission.
R2.4	A student admitted to a particular institute shall continue studying in that institute till the completion of the course, unless he/she is permitted an inter college transfer as per R9.1 to 9.12.
3. Structure of B.Tech. Program.	
R3.1	The duration of the B.Tech. Program shall be 4 years (8 semesters)
R3.2	The maximum duration shall be six academic years spanning 12 semesters.
R3.3	Every academic year shall have two semesters “1 st July to 31 st December (Odd semester)” and “1 st January to 30 th June (Even semester)”. Each semester shall have minimum of 72 working days. The vacation of the faculty and staff shall be as per the Government orders from time to time.
R3.4	Every branch of the B.Tech Program shall have a curriculum and syllabi for the courses approved by the Academic Council. Syllabus for any course shall be normally modified / updated on the recommendations of the respective Board of Studies and subject to the approval of the Academic Council. All revisions shall be based only on the recommendations of the Board of Studies concerned.

R3.5	The academic programs of the University follow the credit system. The general pattern is as below:			
	1 Hr. Lecture (L) per week	1 credit		
	1 Hr. Tutorial (T) per week	1 credit		
	1 to 2 Hours Practical(P) per week	1 credit		
	3 to 4 Hours Practical(P) per week	2 credit		
	The workload of a faculty member shall be the actual number of hours engaged by the faculty member.			
R3.6	The curriculum of any branch of the B.Tech. Program shall have a total of 160 academic credits and 2 additional pass/fail credits.			
R3.7	Every course of B. Tech. Program shall be placed in one of the nine categories as listed in table below.			
	Sl. No.	Category	Code	Breakup of Credits
	1	Humanities and Social Sciences including Management courses	HSMC	8
	2	Basic Science courses	BSC	26
	3	Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc.	ESC	22
	4	Professional core courses	PCC	76
	5	Professional Elective courses relevant to chosen specialization/branch	PEC	15
	6	Open subjects – Electives from other technical and /or emerging subjects ` as specified in the curriculum concerned.	OEC	03
	7	Project work, seminar and internship in industry or elsewhere	PROJ	10
	8	Mandatory Courses [Environmental Sciences, Induction training, Indian Constitution, Essence of Indian Traditional Knowledge]	MC	Non credit
	9	Mandatory Student Activities (Pass/Fail)	SA	2
	Total Credits			162

R3.8	<p>No semester shall have more than six lecture-based courses and two laboratory and/or drawing/seminar/project courses in the curriculum.</p> <p>Credit per semester shall not be less than 15 or greater than 25 and cumulative credits shall not be less than 162.</p>
R3.9	<p>The medium of instruction shall be English. All examinations, project/seminar reports and presentations shall be in English.</p>
<p>4. Academic Monitoring and Student Support</p>	
R4.1	<p>Advisory System: There shall be one Senior Faculty Advisor (SFA) for a class and a faculty advisor (FA) each for 25 to 35 students in the class. The Principal shall assign a regular faculty member with minimum five years of experience as the SFA in discussion with the Head of Department (HoD) concerned.</p>
R4.2	<p>The documents regarding all academic and non academic matters of students under an advisory group shall be kept under the custody of FA / SFA.</p>
R4.3	<p>All requests/applications from a student or parent to higher offices are to be forwarded/recommended by his/her FA / SFA. Students and parents shall first approach their FA / SFA for all kinds of advices, clarifications and permissions on academic matters. It is the official responsibility of the institution to provide the required guidance, clarifications and advices to the students and parents strictly based on the prevailing academic regulations.</p>
R4.4	<p>The SFA shall arrange separate or combined meetings with advisors; course faculty, parents and students as and when required and discuss the academic progress of students under their advisory group. The FA / SFA shall also offer guidance and help to solve the issues on academic and non-academic matters including personal issues of the students in their advisory group. Advisory meetings shall preferably be convened:</p> <ol style="list-style-type: none"> 1. Immediately after the commencement of the semester. 2. Immediately after announcing the marks of first internal evaluation test. <p>The internal marks, activity points earned during the semester and eligibility of attendance shall be uploaded in the College portal only after displaying the same in the department notice board at least for two working days. This is for the information and feed back of the students. Any concerns raised by the students regarding attendance and internal marks and activity points shall be looked into in the combined meetings of advisors, course faculty and the students concerned. The Principal/ HoD shall ensure the proper redressal of the concerns raised by the students regarding internal assessment and attendance. The FA/SFA shall be the custodian of the minutes and action taken reports of the advisory meetings.</p>

R4.5	The SFA shall get the minutes and action taken reports of advisory meetings approved by the HoD. It shall be the duty of the HoD to produce it before the statutory bodies as and when required.
R4.6	The FA/SFA shall keep a hard copy of the consolidated statement of attendance, activity points and internal marks of the students in their advisory group. It shall be kept with the HoD without fail for all sorts of inspections.
R4.7	Regular communication with the parents of students in respect of progress in academic matters and other general issues shall be the responsibility of the FA / SFA.
R4.8	The Principal shall inform/forward all regulations, guide lines, communications, announcements etc issued by the statutory bodies regarding student academic and other matters to the HoDs / SFA for information and timely action.
R4.9	It shall be the official responsibility of the Principal to arrange necessary orientation programmes to the HoDs, SFAs and FAs regarding student counseling, the prevailing norms, regulations, guidelines and procedures on all academic and other related matters.
5. Academic Auditing	
R5.1	<p>There shall be academic auditing in each department at stipulated intervals. The academic auditing shall be conducted by the Internal Quality Assurance Cell (IQAC). The IQAC shall oversee and monitor all the academic activities including all internal evaluations and examinations. The IQAC shall prepare / update formats for the academic audit in each semester at regular intervals. The academic audit report shall be submitted to the Principal for the consideration of the statutory bodies concerned.</p> <p>Academic auditing shall cover:</p> <ol style="list-style-type: none"> 1. Course delivery and adherence to the course plan, syllabus coverage, quality of question papers used for internal examinations, internal evaluation, maintenance of laboratory experimental set ups and equipment, practical assignments, mini projects and conduct of practical classes and their evaluation. 2. Co-curricular and extra-curricular activities available for students, the monitoring mechanism of activity points to be earned by the students. 3. Academic functioning of the college encompassing students, faculty and college administration covering punctuality, attendance, discipline, academic, environment, learning ecosystem, academic accountability, academic achievements and benchmarking. 4. The audit shall also cover the quality criteria prescribed by NBA/NAAC.

6. Assessment															
R6.1	Candidates in each semester shall be evaluated both by Continuous Internal Evaluation (CIE) and End Semester Examinations (ESE). There shall be ESE in every semester for all courses as prescribed under the respective curriculum, except for the Lab / workshop courses for 1 & 2 semesters. The CIE and ESE shall be conducted by the College. Semester classes shall be completed at least ten days before the commencement of the ESE.														
R6.2	The ESE shall be held twice in a year – May/June session (for even semesters) and November/December session (for odd semesters). However, the ESE of the VII and VIII Semesters shall be conducted in both the sessions.														
R6.3	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	<p>Continuous Internal Evaluation (CIE): The Continuous Internal Evaluation shall be on the basis of the day-to-day work, periodic tests (minimum two in a semester) and assignments (minimum two). The faculty member (s) concerned shall carry out the Continuous Internal Evaluation (CIE) for the course allotted to him/her. The CIE marks for individual subjects shall be computed by giving weightage to the following parameters unless otherwise specified in the curriculum.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Course</th> <th style="width: 25%;">Attendance</th> <th style="width: 25%;">Tests</th> <th style="width: 25%;">Assignment/ Class work/ Course project.</th> </tr> </thead> <tbody> <tr> <td>Theory</td> <td style="text-align: center;">20%</td> <td style="text-align: center;">50%</td> <td style="text-align: center;">30%</td> </tr> <tr> <td>Drawing/ Practical</td> <td style="text-align: center;">20%</td> <td style="text-align: center;">40%</td> <td style="text-align: center;">40%</td> </tr> </tbody> </table> <p>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 students who could not appear for the internal tests due to genuine grounds. Three days shall be utilised for conducting the internal evaluation test.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 30%; vertical-align: top; text-align: center;">Project work</td> <td> 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 academican 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. </td> </tr> </tbody> </table>	Course	Attendance	Tests	Assignment/ Class work/ Course project.	Theory	20%	50%	30%	Drawing/ Practical	20%	40%	40%	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 academican 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	<p>The report and the presentation shall be evaluated by a team of internal members comprising of three senior faculty members based on the style of presentation, technical content, adequacy of reference, depth of knowledge and overall quality of the report.</p> <p>a) Attendance : 10%</p> <p>b) Guide : 20%</p> <p>c) Technical content : 30%</p> <p>d) Presentation : 40%</p>
		<p>The CIE marks for the attendance (20%) for each theory, practical and drawing shall be awarded in full, only if the candidate has secured 90% attendance or above in the subject. If a student has attendance for a subject below 90%, reduction in the marks for the attendance shall be made proportionally. The CIE marks obtained by the student for all subjects in a semester are to be published at least 5 days before the commencement of the ESE. Duty leave shall be accounted for awarding the internal marks for attendance.</p>
R6.5	<p>Students, who have completed a course but could not write the ESE, shall be awarded “I” Grade, provided they meet other eligibility criteria (R6.6). They shall register (exam registration) and appear for the end semester examination at the next opportunity and earn the credits without having to register (course registration) for the course again.</p>	
R6.6	<p>The main eligibility criteria for registering to the ESE are attendance in the course and no pending disciplinary action. The minimum attendance for appearing for the ESE is 75% in each course. Students who do not meet these eligibility criteria are awarded an FE grade.</p>	
R6.7	<p>The students with FE grade shall register for the courses during the normal semesters in which the courses are offered. However, for the seventh and eighth semester FE grade students can register for the courses in the next immediate chance, if offered.</p>	
R6.8	<p>A student who does not register for all the courses listed in the curriculum for a semester shall not be eligible to enroll for the next higher semester.</p>	
R6.9	<p>The maximum number of credits a student can register (course registration) for, in a semester is limited to 08 credits in excess of the total mandatory credits allotted in the curriculum for that semester.</p>	
R6.10	<p>A student will be eligible for the award of B. Tech. Degree of the University on satisfying the following requirements:</p> <ol style="list-style-type: none"> 1. Fulfilled all the curriculum requirements within the stipulated duration of the course. 2. Earned the required minimum credits as specified in the curriculum for the branch of study (R3.6 and R3.7). 3. No pending disciplinary action. 	

R6.11	Students registered for a course have to attend the course regularly and undergo the Continuous Internal Evaluation (CIE) and appear for the End Semester Examinations (ESE). Credits for the course are deemed to be earned only on getting at least a pass grade 'P' or better in the composite evaluation.		
R6.12	Pass minimum for a course shall be 40% for the End Semester Examination and 50% of CIE and ESA put together. Letter grade 'F' will be awarded to the student for a course if either his/her mark for the End Semester Examination (ESE) is below 40 % or the overall mark [Continuous Internal Evaluation (CIE) + End Semester Examination (ESE)] is below 50 %.		
R6.13	Students who received F grade in an End Semester Examination shall have to appear for the End Semester Examination at the next opportunity and earn the credits. They shall not be permitted to register for the course again.		
R6.14	Continuous Internal Evaluation mark percentage shall not exceed 30% over the End Semester Examination mark %. CIE marks awarded to a student shall be normalised accordingly. For example if the end semester mark % is 40, then the maximum eligible CIE mark % is $40+30 = 70$ %.)		
R6.15	Grading is based on the overall % marks obtained by the student in a course, as given in 6.16. The grade card shall only give the grades against the courses the student has registered. Semester grade card shall give the grade for each registered course, Semester Grade Point Average (SGPA) for the semester as well as Cumulative Grade Point Average (CGPA).		
R6.16	Grade and Grade Points		
	Grades	Grade Point (GP)	% of Total Marks obtained in the course
	S	10	90% and above
	A+	9.0	85% and above but less than 90%
	A	8.5	80% and above but less than 85%
	B+	8.0	75% and above but less than 80%
	B	7.5	70% and above but less than 75%
	C +	7.0	65% and above but less than 70%
	C	6.5	60% and above but less than 65%
	D	6.0	55% and above but less than 60%
	P (Pass)	5.5	50% and above but less than 55%
	F (Fail)	0	Below 50% (CIE + ESE) or Below 40 % for ESE
	FE	0	Failed due to lack of eligibility criteria (R6.6)
	I	0	Could not appear for the end semester examination but fulfills the eligibility criteria.
	Classification of B. Tech Degree.	First Class with Distinction	CGPA 8.0 and above
		First Class	CGPA 6.5 and above
	Equivalent percentage mark shall be = $10 * CGPA - 2.5$		

R6.17	Minimum Cumulative Credit Requirements for Registering to Higher Semesters			
	Semester	Allotted Credits	Cumulative Credits	Minimum Cumulative Credits required for B. Tech
First	17	17	Not Applicable	Not Applicable
Second	21	38	Not Insisted	Not Insisted
Third	22	60	Not Insisted	Not Insisted
Fourth	22	82	Not Insisted	Not Insisted
Fifth	23	105	21 Credits from S1 & S2	Not Insisted
Sixth	24	129	Not Insisted	Not Insisted
Seventh	15	144	47 Credits from S1 to S4	09 Credits from S3 to S4
Eight	16	160	Not Insisted	Not Insisted
R6.18	There is no provision for improving the grade. However, the student is permitted to check the answer books of the End Semester Examination after the results are declared, on payment of the prescribed fee. Any discrepancy in evaluation could be brought to the notice of the Controller of Examination, who shall initiate appropriate action as per the Examination Manual.			
R.6.19	The students can apply for revaluation of the answer books of the end semester examination after the results are declared. The final mark awarded will be the better of the two marks. If the difference in marks obtained in revaluation and the original valuation is more than 15% of the maximum marks, it shall be sent for third valuation. The final mark shall then be the average of the closer of the two marks obtained in the three valuations to the advantage of the student or the mark obtained in the original valuation whichever is higher. The Controller of Examination shall examine such cases and conduct proper enquiry to see whether any of the examiners is responsible for negligent valuation of answer script and initiate suitable action as per the Examination Manual.			
R6.20	Grade cards shall be made available in the student login for the registered courses, in every semester. On earning the required credits for the degree, the APJ Abdul Kalam Technological University will issue the final consolidated grade sheet for the B. Tech program including CGPA.			
R6.21	Calculation of SGPA/CGPA			
	<p>Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) are calculated as follows.</p> <p>$SGPA = \frac{\sum(C_i \times GP_i)}{\sum C_i}$, where 'C_i' is the credit assigned for a course and 'GP_i' is the grade point for that course. Summation is done for all courses specified in the curriculum of that semester. The failed and incomplete courses shall also be considered in the calculation.</p> <p>$CGPA = \frac{\sum(C_i \times GP_i)}{\sum C_i}$, where 'C_i' is the credit assigned for a course and 'GP_i' is the grade point for that course. Summation is done for all courses specified in the</p>			

	<p>curriculum up to that semester for which the 'CGPA' is needed. Here the failed courses shall also be accounted.</p> <p>CGPA for the B. Tech programme is arrived at by considering all course credits that are needed for the degree and their respective grade points.</p> <p>For students admitted under lateral entry scheme, credits for the first and second semester courses shall not be accounted for the calculation of CGPA.</p> <p>Equivalent percentage mark shall be = $10 * CGPA - 2.5$</p>
R6.22	<p>Any act of violation of indiscipline, misbehavior, or unfair practice in examinations from the part of students, faculty members, staff or any other source shall be viewed very seriously. It is the legal responsibility of the Controller of Examinations, to see that the examinations are conducted strictly as per the Examination Manual. Malpractices in examinations observed or reported by an official employed by the College / faculty member / invigilator shall be immediately reported to the Deputy Controller of Examinations. The Deputy Controller of Examinations shall in turn conduct a preliminary enquiry giving the student concerned a chance to explain his/her case and then forward the case with his/her preliminary enquiry report and remarks to the Controller of Examinations along with all related documents and evidences within two working days. The Controller of examination shall decide the course of action on the issue as per the prescribed norms in the Examination Manual.</p>
R6.23	<p>A student shall earn 2 credits by actively involving in co – curricular and extra – curricular activities as per the guidelines issued by the competent authority from time to time. On getting minimum 100 activity points the student passes the course and earns the two credits which shall not be counted for the calculation of CGPA but mandatory for the award of the Degree. For the students admitted under lateral entry scheme the 2 credits shall be considered to be earned on getting 75 activity points. The students are required to keep a file containing documentary proofs of activities done by him/her attested by the SFA / FA. The rules for assigning activity points are given in Annexure 1.</p>
<p>7. Break of Study</p>	
R7.1	<p>A student is permitted to avail break of study:</p> <ol style="list-style-type: none"> i) In case of accident or serious illness needing prolonged hospitalization and rest. ii) In case the student has a bright idea and would like to initiate a start-up venture or develop a product. iii) In case of any personal reasons that need a break in study. iv) For internship leading to employment. <p>For break of study due to illness, student shall submit all necessary medical reports together with the recommendation of the doctor treating him giving definite reasons for break of study and its duration. Before joining back, the student should submit the fitness certificate from the doctor who treated him.</p> <p>Students who want to initiate a start-up venture or a product development, have to</p>

	<p>submit a project report, clearly indicating the purpose, action plan, technical details, funding details and future plans to the college Principal. The Principal shall evaluate the proposal by constituting an expert team consisting of a technocrat and a bank executive and take an appropriate decision based on the team's recommendation. The break of study for the start up shall be permitted only after the 4th semester for a maximum duration of two semesters. This is however permitted only on successfully completing the courses listed out in the first two semesters.</p> <p>Students who require a break in study due to personal reasons shall convince the Principal on the genuine need for it by giving authentic evidence for the same.</p> <p>Students who require break in study for 'internship leading to employment' shall produce the offer letter obtained from the employer concerned. The principal shall verify the authenticity of the offer and submit his recommendation to the statutory body sufficiently in advance for approval. Only campus placed students with an annual compensation more than 6 lakhs are eligible to avail this facility.</p> <p>In the semester system, break of study for an academic year is the preferred option than break of study for a semester.</p> <p>The student can avail the break of study only with the prior approval of the statutory bodies. The Principal shall present the request of the student with all relevant documents to the statutory bodies with his/her recommendations.</p> <p>Students shall have to rejoin on the first working day of the same semester on which he/she had started availing the break of study.</p>
8.Attendance	
R8.1	<p>Students are expected to attain 100% attendance for all courses. However, under unavoidable circumstances they are permitted to avail leave. Total leave of absence shall not exceed 25% of the academic contact hours for a course and 75% attendance is mandatory for registering to the ESE.</p> <p>On medical ground the college Principal can relax the minimum attendance requirement to 60%, to write the ESE. This is permitted for one or more courses registered in the semester. Principal shall keep all records which led to his decision on attendance, for verification by the IQAC. This provision is applicable only to any two semesters during the entire program period.</p> <p>In case of prolonged illness, break of study is permitted as per R7.1.</p>
R8.2	<p>The Principal is authorized to grant attendance relaxation (duty leave) to the students in officially sponsored national level competitions/championships/ tournaments when called upon to do so, up to a maximum of 10%. Such students should produce the participation certificate countersigned by the University Sports Coordinator/ the Head of the Department of Physical Education in the case of sports activities and the Senior Faculty Advisor in the case of other extracurricular activities: within ten days of the event. The participation certificate thus produced shall be forwarded to the Principal with the due recommendation of the respective Head of the Department. Under any circumstances, the principal shall not consider the certificate if the overall attendance of the candidate is less than 60%. Late applications received shall not be considered on any account. The student shall get official prior permission from the University for representing the University.</p>

R8.3	The Principal is authorized to grant attendance relaxation (duty leave) to the students for organizing extra/ co-curricular activities, up to a maximum of 05%. Such students should produce the required documents countersigned by the University Sports Coordinator/ the Head of the Department of Physical Education in the case of sports activities and the Senior Faculty Advisor in the case of other extra/ co-curricular activities: within ten days of the events. The documents thus produced shall be forwarded to the Principal with the due recommendation of the respective Head of the Department. Under any circumstances, the principal shall not consider the documents, if the overall attendance of the candidate is less than 60%. Late applications received shall not be considered on any account.
9. Inter College Transfer	
R9.1	Inter college transfer shall be applicable only for regular B. Tech students.
R9.2	The transfer shall be permitted just before the commencement of third semester.
R9.3	The transfer shall be with effect from the first working day of the third semester.
R9.4	The transfer shall be only within the sanctioned strength of the receiving college.
R9.5	The following category of students shall not be eligible for inter college transfer <ol style="list-style-type: none"> 1. Govt. of India Nominee. 2. Management Quota in Aided colleges. 3. Management Quota in private Self- Financing Colleges 4. Students admitted under NRI/PIO quota. 5. Lateral Entry students. 6. Students admitted under TFW Scheme. 7. Students admitted in any supernumerary seats. 8. Any other category which are ineligible as per the conditions for admission prescribed by Govt. of Kerala/Govt. of India.
R9.6	The transfer shall be permitted: <ol style="list-style-type: none"> 1. Between Govt/ Govt. Aided Colleges.
R9.7	Notification inviting application for inter college transfer shall be issued by the University just before the commencement of the third semester.
R9.8	The candidate should fulfill the academic eligibility requirement for promotion to the third semester.
R9.9	If the number of applicants is more than the vacant seats available, the transfer may be based on the Kerala Engineering Entrance Rank.
R9.10	The students shall opt only one college for inter college transfer.
R9.11	The selected candidates shall remit a fee of Rs 3000/- (No fee for SC/ST students) within the stipulated date to the College. However, this rule is not applicable to the students transferred to other institutes under "Shift College" University order.
R9.12	The College transfer once approved by the receiving college will be final and binding on the applicant. No student will be permitted, under any circumstances, to refuse the change of college once offered.

10. Migration from other Universities	
R10.1	Migration to the University from other Universities shall be permitted only if the parent University and the APJ Abdul Kalam Technological University enters into a bipartite agreement/ MoU for this purpose. However, this condition is not applicable to the students in any of the Engineering colleges/ institutions, which, before the commencement of KTU Act remained affiliated to Universities except Deemed to be Universities in the State of Kerala.
R10.2	The student shall be permitted to migrate only if he/she fulfills the University eligibility criteria for admission to the course applied for migration.
R10.3	The migration shall be permitted only up to the fifth semester of the B. Tech program and half the duration of the program in the case of other programs.
R10.4	The admission shall be offered on migration basis through lateral transfer of credits. Lateral credit transfer shall be as recommended by the concerned Board of Studies.
R10.5	The students shall be allowed to migrate to the University subject to satisfying the rules and regulations of the University as regards to, maximum number of backlogs, grade points, minimum credit requirement for promotion to higher semesters, etc.
R10.6	The student shall be offered admission in any of the affiliated colleges/institutions of the University subject to availability of seats. The student shall produce no objection certificate from the concerned college/institute in this regard.
R10.7	The students offered admission shall have to take transitory courses/ additional courses of the previous semesters to satisfy the program requirement as recommended by the concerned board of studies.
R10.8	The students offered admission shall pay the migration fees and the University fees as prescribed by the University. The application processing fee (University fee) shall be Rs 5000/- (Rupees five thousand only) and the migration fees shall be Rs 20000/- (Rupees twenty thousand only). The migration fee is charged for the meeting expenses of the concerned Board of studies to decide on the student suitability for migration and to recommend the transitory courses/ additional courses to be done by the student to fulfill the academic requirement of the University. The processing fee shall be paid along with the application, and the migration fee shall be paid to the University at the time of offering admission. The fee once paid shall not be refunded under any circumstances. The students in any of the Engineering colleges / institutions, which, before the commencement of KTU Act remained affiliated to Universities except Deemed to be Universities in the State of Kerala, are exempted from paying the processing fee and the migration fee.
R10.9	The migrated students shall follow the rules and regulations of the University.
R10.10	The students offered admission shall produce a migration certificate from the parent University at the time of admission.
R10.11	The student offered admission shall produce a character certificate from the parent institute/University at the time of admission.
R10.12	Regulations, Scheme and Syllabus of the respective specialization attested by the Registrar of the parent University or equivalent authority shall be submitted to the University along with the application seeking migration to the University.
R10.13	Attested copies of all certificates and mark lists from 10 th onwards shall be submitted along with the application for migration (Original certificates and mark lists shall be

	produced as and when required by the University).
R10.14	Assessment of the student suitability for migration in terms of programs, backlogs, grade points, credit requirements, etc. shall be done by the concerned Board of Studies of the University.
R10.15	Assessment of the transitory courses/ additional courses to be done by the student as per the academic requirement of the University shall be as recommended by the concerned Board of Studies of the University.
11. Minor in Engineering	
R11.1	All B. Tech students shall be eligible to register for Minor in Engineering.
R11.2	The Minor in Engineering registration shall be along with the registration of the 3 rd semester.
R11.3	If a student fails in any course of the minor, he/she shall not be eligible to continue the B.Tech Minor. However, the additional credits and grades thus far earned by the student shall be included in the grade card but shall not be considered in calculating the CGPA.
R11.4	The student shall earn additional 20 credits to be eligible for the award of B. Tech Degree with Minor.
R11.5	Out of the 20 Credits, 12 credits shall be earned by undergoing a minimum of three courses, during the specified period. The total number of contact hours for these three courses shall be 126 Hrs (42Hrs/course). The duration of a course shall be minimum 14 weeks. The remaining 8 credits could be acquired through two MOOCs recommended by the Board of Studies and approved by the Academic Council. The list of MOOCs approved by the Academic Council will be revised/updated from time to time and published
R11.6	Curriculum and the syllabus of the three courses shall be approved by the Board of Studies and the Academic Council.
R11.7	The assessment of the courses other than MOOCs and earning of credits shall be as per R6.1 to R6.23. The assessment and certification of the MOOCs shall be as per the prescribed norms of the MOOCs. The candidate shall produce the certification issued by the MOOCs conducting agency in proof of credit attainment.
R11.8	Under graduate Degree with minor shall be issued by the University to the students who fulfill all the academic eligibility requirements for the B. Tech program and Minor in Engineering.
12. B. Tech (Honours)	
R12.1	All B. Tech students are eligible to register for B.Tech (Honours). However, their mandatory CGPA at the end of eighth semester shall be 8.5 or higher, to be eligible for the award of B. Tech (Honours).
R12.2	The B. Tech (Honours) registration shall be along with the registration of the 4 th semester.
R12.3	If a student fails in any course including the course chosen for B. Tech (Honours), he/she shall not be eligible to continue the B.Tech(Honours). However, the additional credits thus far earned by the student shall be included in the grade card but shall not be considered in calculating the CGPA.
R12.4	The student shall earn additional 20 credits to be eligible for the award of B. Tech (Honours) Degree.

R12.5	Out of the 20 Credits, 12 credits shall be earned by undergoing minimum three specified B. Tech (Honours) Elective courses of the respective stream. Credits for the B. Tech (Honours) Elective courses are deemed to be earned only on getting at least a grade 'C' or better in the composite evaluation. A student shall not be permitted to select the normal elective courses of the respective B. Tech programs for attaining the credit requirements of B. Tech (Honours). The remaining 8 credits could be acquired through two MOOCs of the respective streams recommended by the Board of Studies and approved by the Academic Council.
R12.6	The assessment and certification of the MOOCs shall be as per the prescribed norms of the MOOCs. The candidate shall produce the certification issued by the MOOCs conducting agency in proof of credit attainment.
R12.7	No additional fee shall be charged from the students for B. Tech Honours program.
R12.8	B. Tech (Honours) Degree shall be issued by the University to the students who fulfill all the academic eligibility requirements for the B. Tech and B. Tech (Honours) programs.

13. Grace Marks for Sports /Arts Competitions

R13.1	Only bona-fide, regular candidates are eligible for the award of Grace Marks.
R13.2	The criterion for the award of Grace Marks is representing the University in officially sponsored national level competitions/championships/ tournaments when called upon to do so. The student shall get official prior permission from the University for representing the University.
R13.3	The maximum grace marks that can be awarded to a candidate in a particular semester for all activities put together shall be 5% of the aggregate maximum End Semester Examination marks of all theory courses.
R13.4	The maximum grace marks that can be awarded to a student for a theory course in a particular semester for all activities put together shall not exceed 10% of the Maximum aggregate marks of End Semester Examination of the course.
R13.5	The Grace Marks shall not be awarded to a student for Practical/ Lab/ Viva Voce/ internal assessment/ Seminar etc. even though she/he fails for the same.
R13.6	Eligible Grace Marks shall be distributed equally on all theory papers/courses of an examination. However, re – distribution of Grace Marks shall be allowed only in the case of those courses of an examination for which the candidate has passed. Re- distribution is possible from passed courses to failed courses only. Re-distribution of Grace Marks is not permissible from failed courses to other courses for a pass.
R13.7	The Grace Marks shall be awarded for all theory papers/courses/subjects in a semester.
R13.8	Re- distribution shall be done only for enabling a candidate to obtain the minimum marks required for a pass.
R13.09	Grace Marks shall not be re – distributed from one semester to another semester.
R13.10	If the candidate does not secure the minimum marks required for a pass even after effecting re- distribution, eligible moderation fixed by the respective board if any, shall

	be awarded to that candidate in addition to the Grace Marks for a pass.
R13.11	Eligible Grace Marks shall be awarded for the regular examination of the performing semester only. Grace Marks shall not be awarded for supplementary examinations.
R13.12	The performing semester shall be considered from 1 st July to 31 st December (Odd semester) and 1 st January to 30 th June (Even Semester).
R13.13	Grace Marks shall be awarded on the basis of performance in the respective semester.
R13.14	The request for Grace Marks shall be submitted to the Controller of Examinations through the SFA / HoD along with all relevant documents, within the time limit prescribed by the College. The request for Grace Marks received after the time limit shall not be entertained on any account.
R13.15	Only a single highest achievement during the period of a semester shall be considered for awarding the grace marks.

14. Grace Marks for Persons with Disability (PWD)

R14.1	A person with disability means a person suffering from not less than 40% of any disability as certified by the District Medical Board. To be eligible for the grace marks, the certificate of disability specifying the percentage of disability shall be produced before the Principal at the time of admission.
R14.2	The Grace Marks that can be awarded for PWD candidates shall be 25% of the marks scored by the candidate in each course at the time of finalization of the results.
R14.3	Transfer of marks from one paper to another shall not be permitted. Fractions of marks if any, while computing the Grace Marks shall be rounded off to the next higher integer.
R14.4	PWD candidates who are eligible for Grace Marks shall be awarded Grace Marks for regular and supplementary chances until they pass the whole examination.
R14.5	Grace Marks shall be awarded only for the marks of the End Semester Examinations conducted by the University.
R14.6	The request for Grace Marks shall be submitted to the Controller of Examinations through the SFA / HoD along with all relevant documents, within the time limit prescribed by the College. The request for Grace Marks received after the time limit shall not be entertained on any account.

15. Transitory provision

15.1	Notwithstanding anything contained in these regulations, the statutory bodies shall have the power to provide by order that these Regulations shall be applied to any B. Tech program with such modifications as may be necessary.
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ANNEXURE 1
RULES FOR ASSIGNING ACTIVITY POINTS

Apart from technical knowledge and skills, to be successful as professionals, students should have excellent soft skills, leadership qualities and team spirit. They should have entrepreneurial capabilities and societal commitment. With a view to nurturing these qualities, activity points to be earned by the students, covering extra-curricular and co-curricular activities, have been specified. All students have to earn a minimum of 100 activity points from various activity segments listed to qualify for the B.Tech degree. Two credits are given for this on a pass/ fail basis and is mandatory for getting the B.Tech Degree. As no grade is given for these two credits, they are not included in the CGPA calculation. For lateral entry students joining from the third semester, the activity point requirement is 75. Points earned by the student will be indicated in the consolidated academic statement. In case of NSS and NCC, points can be entered after the completion of two-year Programme. All documental proof for awarding the activity points should be obtained and the points are to be consolidated. The rules for assigning activity points are given in the following sections.

THE MAIN ACTIVITY SEGMENTS ARE AS GIVEN BELOW:

1. National Initiatives
2. Sports & Games
3. Cultural Activities
4. Professional Self Initiatives
5. Entrepreneurship and Innovation
6. Leadership & Management

The following table gives the list of activities under each of these segments, the level of achievement expected, activity points, evidence needed to assign the points and the minimum duration needed for certain activities. Additional activities under these segments can be considered, after approval from the Academic Council.

Activity Head	Sl. No	Activity	Achievement Levels and Assigned Activity Points					** Approval Document	Max. Points	Min. Duration of activity
			*Level	I	II	III	IV			
National Initiatives Participation	1	N C C	-	-	-	-	-	a/b	60	2 Year
	2	N S S	-	-	-	-	-	a/b	60	2 Year
	<p>For C certificate / outstanding performance supported by certification, additional marks upto 20 can be provided subjected to maximum limit of 80 points.</p> <p>Best NSS Volunteer Awardee (University level) / Participation in National Integration Camp/ Pre Republic Day Parade Camp (South India), supported by certification, additional marks upto 10 can be provided subjected to maximum limit of 70 points</p> <p>Best NSS Volunteer Awardee (State / National level) / Participation in Republic Day Parade Camp / International Youth Exchange Programme, supported by certification, additional marks upto 20 can be provided subjected to maximum limit of 80 points</p>									
Sports & Games Participation	3	Sports:	8	15	25	40	60	a	60	1 Year
	4	Games	8	15	25	40	60	a	60	1 Year
		First Prize	10	10	10	20	20	Additional points can be provided for winning. The maximum limit for activity points is 60. But for Level IV and V winning, the maximum point limit is enhanced to 80.		
		Second Prize	8	8	8	16	16			
		Third Prize	5	5	5	12	12			
Cultural Activities Participation	5	Music	8	12	20	40	60	a	60	1 Year
	6	Performing arts	8	12	20	40	60	a	60	1 Year
	7	Literary arts	8	12	20	40	60	a	60	1 Year
		First Prize	10	10	10	20	20	Additional points can be provided for winning. The maximum limit for activity points is 60. But for Level IV and V winning, the maximum point limit is enhanced to 80.		
		Second Prize	8	8	8	16	16			
		Third Prize	5	5	5	12	12			

Professional Self Initiatives	8	Tech Fest, Tech Quiz	10	20	30	40	50	a	50		
	9	MOOC with final assessment certificate	50					a	50		
	10	Competitions conducted by Professional Societies - (IEEE, IET, ASME, SAE, NASA etc.)	10	15	20	30	40	a	40		
	11	Attending Full time Conference/ Seminars / Exhibitions/ Workshop/ STTP conducted at IITs /NITs	15					a	30		
	11 a	Attending Full time Conference/ Seminars / Exhibitions/ Workshop/ STTP conducted at KTU or its affiliated institutes	6					a	12		
	12	Paper presentation/ publication at IITs /NITs	20					a	40		
		Additional 10 points for certificate of recognition.									
	12. a	Paper presentation/ publication at KTU or its affiliated institutes	8					a	16		
		Additional 2 points for certificate of recognition.									
	13	Poster Presentation at IITs /NITs	10					a	20		
		Additional 10 points for certificate of recognition.									
	13. a	Poster Presentation at KTU or its affiliated institutes	4					a	8		
		Additional 2 points for certificate of recognition.									

	14	Industrial Training/ Internship (atleast for 5 full days)	20	a/b	20	
	15	Industrial/ Exhibition visits	5	a/b/d	10	
	16	Foreign Language Skill (TOEFL/ IELTS/ BEC exams etc.)	50	a	50	
Entrepreneurship and Innovation	17	Start-up Company – Registered legally	60	d	60	
	18	Patent-Filed	30	d	60	
	19	Patent - Published	35	d	60	
	20	Patent- Approved	50	d	60	
	21	Patent- Licensed	80	d	80	
	22	Prototype developed and tested	60	d	60	
	23	Awards for Products developed	60	d	60	
	24	Innovative technologies developed and used by industries/users	60	d	60	
	25	Got venture capital funding for innovative ideas/products.	80	d	80	
	26	Startup Employment (Offering jobs to two persons not less than Rs. 15000/- per month)	80	d	80	
	27	Societal innovations	50	d	50	

Leadership & Management			Core coordinator	Sub coordinator	Volunteer			
	28	Student Professional Societies (IEEE, IET, ASME, SAE, NASA etc.)	15	10	5	d	40	
	29	College Association Chapters (Mechanical, Civil, Electrical etc.)	15	10	5	d	40	
	30	Festival & Technical Events (College approved)	15	10	5	d	40	
	31	Hobby Clubs	15	10	5	d	40	
	32	Elected student representatives	30 (Chairman)	25 (Secretary)	15 (Other Council Members)	d	60	

- *Level I College Events
- *Level II Zonal Events
- *Level III State/ University Events
- *Level IV National Events
- *Level V International Events

**Approval Documents: (a) Certificate (b) Letter from Authorities (c) Appreciation recognition letter (d) Documentary evidence (e) Legal Proof (f) Others (specify)