1.2.1 *Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented*

Sl No.	Programmes	Page No	Link
1	B.Tech	2	https://ktu.edu.in/eu/acd/academicRegulation.htm?=TCWtcjkqRp9pCuLPphy8xPyFXnEq4%2FE%2BXG8smq7ouxtVqrVDbq4EOLcRlSvMuM5Z
2	MCA	30	
3	M.Tech	48	
4	MBA	63	



NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE
(NAAC Accredited)
(Approved by AICTE, Affiliated to APJ Abdul Kalam Technological University, Kerala)



B.Tech

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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j) End Semester and Supplementary Examinations
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n) Course Committees and Class Committees
o) Eligibility for Grading
p) Award of Grades
q) Grades and Grade Points
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
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8. Amendment to Ordinance/Regulations/Rules
Rules to carry out the purpose of the Ordinance
Addendum

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

a. Eligibility for admission to the B.Tech., programme, admission policy and procedure 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.

b. Subject to Clause 1(a), Admission to B.Tech., shall be based on the guidelines given 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.

c. The Branches of study and number of students admitted are to be based on the approval by the All India Council for Technical Education and the Kerala Technological University.

d. Notwithstanding all that is stated above, the admission policy may be modified from 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.

4. 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.

6. **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.

a. 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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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		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

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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.

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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.

l) **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.

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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 re-test 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 design 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 faculty 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 student 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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they are offered subject to the limitations imposed by the ordinances and course timetable.

Action plan, for dealing with course arrears in theory courses at the end of each semester to continue with the programme, is given below. Faculty advisors shall monitor advice and support the students in this. Students should be informed about the minimum cumulative credits requirement to register for higher semester courses.

Eligibility Criteria for Registering for Higher Semester Courses

Semester	Allotted Credits	Cumulative Credits	Minimum cumulative credits required to register for courses in higher semesters
First	24	24	Not insisted
Second	23	47	35
Third	24	71	Not insisted
Fourth	23	94	80
Fifth	23	117	Not insisted
Sixth	23	140	126
Seventh	22	162	Not insisted
Eighth	18	180	

n) Course Committees and Class Committees

These committees are to be in place in each college affiliated to the University.

a) Course Committee

This is for common courses (electives are excluded) offered to students admitted for the B. Tech. programme irrespective of their branch of study. Each of such courses will have a course committee constituted by the Principal of the college.

The chairman of the course committee shall be a senior faculty member not offering the course.

Members:-

i) All teachers offering the course.

ii) Four student representatives nominated by the Principal.

b) Class Committee

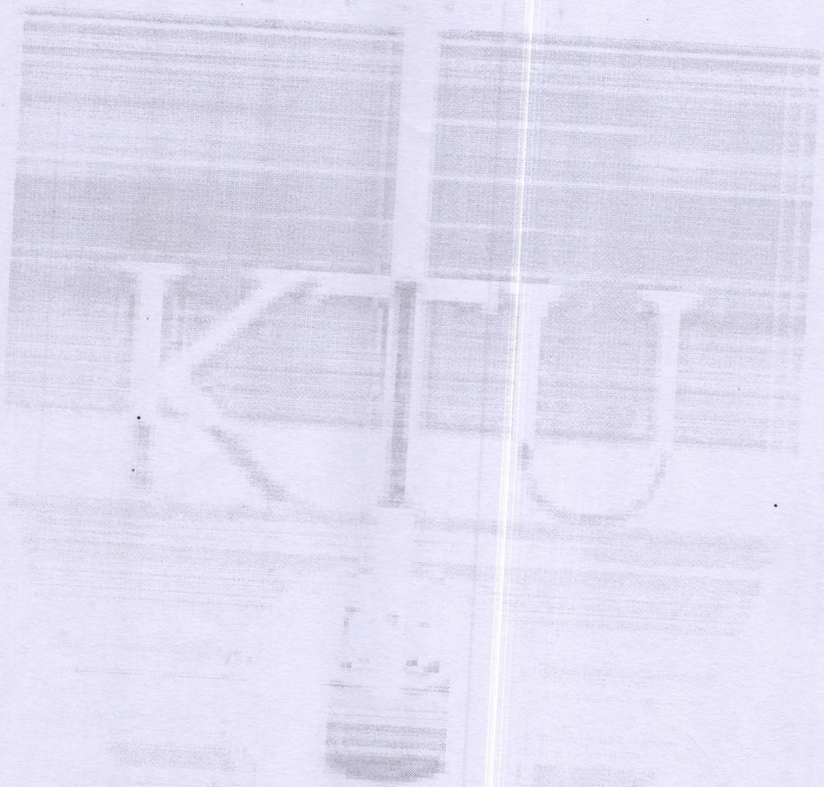
Beginning from the third semester, all branches of study will have class committees for every semester constituted by the respective Heads of Departments.

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ANNEXURE 1

Regulation for B.Tech, 2019



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The A. P. J. Abdul Kalam Technological University Academic Regulations for B. Tech, 2019

This may be called the A. P. J. Abdul Kalam Technological University Academic Regulations for B. Tech. 2019. These are subject to the provisions of the APJ Abdul Kalam Technological University Act, 2015, the statutes and ordinances if any issued in the subject from time to time. It is the express understanding that these regulations are subject to the approval of the concerned statutory bodies of the University. These regulations shall be applicable for students admitted from 2019 onward.

1. Preamble	
R1.1	The University has the right to modify the regulations from time to time.
R1.2	In all matters related to the regulations, the decision of the University and its interpretation given by the BOG shall be final and binding.
2. Admission	
R2.1	Admission policy, eligibility for admission and admission procedure shall be decided by the University or 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 University or the statutory body concerned, the Vice Chancellor may revoke the admission of the candidate and report the matter to the BOG.
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 "1st July to 31st December (Odd semester)" and "1st January to 30th 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 once in four years. However, innovative elective courses can be included as

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	and when required, 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.

S. 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

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R3.8	No semester shall have more than six lecture-based courses and two laboratory and/or drawing/seminar/project courses in the curriculum. Credit per semester shall not be less than 15 or greater than 25 and cumulative credits shall not be less than 162.
R3.9	The medium of instruction shall be English. All examinations, project/seminar reports and presentations shall be in English.
	4. Academic Monitoring and Student Support.
R4.1	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 Senior Faculty Advisor (SFA) in discussion with the Head of Department concerned.
R4.2	The documents regarding all academic and non academic matters of students under an advisory group shall be kept under the custody of Faculty Advisor/Senior Faculty Advisor.
R4.3	All requests/applications from a student or parent to higher offices are to be forwarded/recommended by his/her Faculty Advisor/Senior Faculty Advisor. Students and parents shall first approach their Faculty Advisor/ Senior Faculty Advisor 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.
R4.4	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 Senior Faculty Advisor/ Faculty Advisor 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: 1. Immediately after the commencement of the semester. 2. Immediately after announcing the marks of first internal evaluation test. The internal marks, activity points earned during the semester and eligibility of attendance shall be uploaded in the University 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.

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R4.5	The SFA shall get the minutes and action taken reports of advisory meetings approved by the Head of Department and the Principal. It shall be the duty of the HoD and the Principal to produce it before the University 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 Senior Faculty Advisor/ Faculty Advisor.
R4.8	The Principal shall inform/forward all regulations, guide lines, communications, announcements etc issued by the University regarding student academic and other matters to the HoDs/ Senior Faculty Advisors 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 SAs regarding student counseling, the prevailing University norms, regulations, guidelines and procedures on all academic and other University related matters.
	5. Academic Auditing of affiliated institutions.
R5.1	There shall be academic auditing in each affiliated college at stipulated intervals. The academic auditing shall be conducted jointly by an Internal Quality Assurance Cell (IQAC) within the college and external academic auditor(s) appointed by the University. The Internal Quality Assurance Cell (IQAC) in each college shall oversee and monitor all the academic activities including all internal evaluations and examinations. This cell shall prepare academic audit statements in the formats prescribed by the University for each semester at regular intervals. These reports shall be presented to the external academic auditor(s), who shall use it as reference for independent auditing. The external auditor(s) shall submit the final audit report to the University in the prescribed format. Academic auditing shall cover:- 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 equipments, 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.

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6. Assessment

R6.1 There shall be End Semester Examinations (ESE) in every semester for all courses as prescribed under the respective curriculum, except the Lab/ workshops courses for 1 & 2 semesters. The End Semester Examinations shall be conducted by the University. Semester classes shall be completed at least ten days before the commencement of the End Semester Examination.

R6.2 The End Semester Examinations (ESE) shall be held twice in a year – May/June session (for even semesters) and November/December session (for odd semesters). However, the End Semester Examinations of the VII and VIII Semesters shall be conducted in both the sessions.

R6.3 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 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.

Course	Attendance	Tests	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 students who could not appear for the internal tests due to genuine grounds. Three days shall be utilised for conducting the 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%

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 University examinations. Duty leave shall be accounted for awarding the internal marks for attendance.

R6.5	Students, who have completed a course but could not write the end semester examination, 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.
R6.6	The main eligibility criteria for registering to the End Semester Examination are attendance in the course and no pending disciplinary action. The minimum attendance for appearing for the End Semester Examination is 75% in each course. Students who do not meet these eligibility criteria are awarded an FE grade.
R6.7	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 by their institute.
R6.8	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.
R6.9	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.
R6.10	A student will be eligible for the award of B. Tech. Degree of the University on satisfying the following requirements: 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.

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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		

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R6.17

Minimum Cumulative Credit Requirements for Registering to Higher Semesters

Semester	Allotted Credits	Cumulative Credits	Minimum Cumulative Credits required for B. Tech	Minimum Cumulative Credits required for B. Tech Lateral Enrty.
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 University 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 University 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 University will issue the final consolidated grade sheet for the B. Tech program including CGPA.

R6.21 **Calculation of SGPA/CGPA**

Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) are calculated as follows.

SGPA = $\Sigma(Ci \times GPi)/\Sigma Ci$, where 'Ci' is the credit assigned for a course and 'GPi' 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.

CGPA = $\Sigma(Ci \times GPi)/\Sigma Ci$, where 'Ci' is the credit assigned for a course and 'GPi' is the grade point for that course. Summation is done for all courses specified in the

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	curriculum up to that semester for which the 'CGPA' is needed. Here the failed courses shall also be accounted. 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. For students admitted under lateral entry scheme, credits for the first and second semester courses shall not be accounted for the calculation of CGPA. Equivalent percentage mark shall be = 10 * CGPA – 2.5
R6.22	Any act of violation of University directions, indiscipline, misbehavior, or unfair practice in examinations from the part of students, faculty members, staff, institution, management or any other source shall be viewed very seriously. It is the legal responsibility of the principal and the college management to see that the examinations are conducted strictly as per the directions of the University and as specified in the examination Manual. Malpractices in examinations observed or reported by an official employed by the University, faculty member, invigilator or anybody shall be immediately reported to the Principal. The principal shall in turn conduct a preliminary enquiry giving the student concerned a chance to explain his/her case. The Principal shall 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 University Examination Manual.
R6.23	A student shall earn 2 credits by actively involving in co – curricular and extra – curricular activities as per the guidelines issued by the University 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 Senior Faculty Advisor/ Faculty Advisor.
	7. Break of Study
R7.1	A student is permitted to avail break of study: 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. 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. Students who want to initiate a start-up venture or a product development, have to

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	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. 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. 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 University sufficiently in advance for approval. Only campus placed students with an annual compensation more than 6 lakhs are eligible to avail this facility. In the semester system followed by the University, break of study for an academic year is the preferred option than break of study for a semester. The student can avail the break of study only with the prior approval of the University. The Principal shall upload the request of the student with all relevant documents to the University portal for the approval with his/her recommendations. 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.
	8.Attendance
R8.1	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 end semester examination. On medical ground the college Principal can relax the minimum attendance requirement to 60%, to write the end semester examination. 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 Academic Auditors/ University officials. This provision is applicable only to any two semesters during the entire program period. In case of prolonged illness, break of study is permitted as per R7.1.
R8.2	The Principals are 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 Director 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.

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8.3	The Principals are 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 Director 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 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: 1. Between Govt/ Govt. Aided Colleges. 2. Between Self – Financing Colleges. (Including Govt. Controlled SFC).
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 University. 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.

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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 10th onwards shall be submitted along with the application for migration (Original certificates and mark lists shall be

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	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.
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.
	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 3rd 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.
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 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 4th 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.

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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	The institutions offering B. Tech Honours programs shall not charge any additional fee from the students.
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 for which the University conducts End Semester Examinations.
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.

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R13.12	The performing semester shall be considered from 1st July to 31st December (Odd semester) and 1st January to 30th 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 principal along with all relevant documents, within the time limit prescribed by the University. 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 principal along with all relevant documents, within the time limit prescribed by the University. 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 Vice-Chancellor shall, for a period of two years from the date of coming into force of these regulations, has 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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(NAAC Accredited)
(Approved by AICTE, Affiliated to APJ Abdul Kalam Technological University, Kerala)



MCA

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

CET Campus, Thiruvananthapuram, Kerala-695016

2016

REGULATIONS
For

MASTER OF COMPUTER APPLICATIONS
(MCA, MCA Lateral Entry, Integrated Degree MCA)

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Addendum:-

1. Calculation of SGPA/CGPA

Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) are calculated as follows.

SGPA = $\Sigma(C_i \times GP_i)/\Sigma C_i$ 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 registered by the student in the semester. Here the failed courses are also accounted.

CGPA = $\Sigma(C_i \times GP_i)/\Sigma C_i$ 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 registered by the student during all the semesters for which the CGPA is needed. Here the failed courses are also accounted. CGPA of all courses passed may also be given.

CGPA for the MCA programme is arrived at by considering all course credits that are needed for the degree and their respective grade points.

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This application is to be vetted by the head of the department and based on the decision taken, the student is permitted to do the project outside the college.

RU-9 Ragging

Ragging of any nature is a criminal and non-bailable offence. Involvement in ragging shall lead to stringent punishment, including imprisonment as per the law of the land. A student, whose involvement in ragging is established, shall be summarily dismissed from the college. Each student of the Institute, along with his/her parent, is required to give an undertaking in this regard and the same is to be submitted at the time of registration.

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forward. Faculty member in charge of the seminar and another faculty member in the department nominated by the Head of the Department are the evaluators for the seminar. Distribution of marks for the seminar is as follows.

Marks for the report: 20%
Presentation: 60%
Ability to answer questions on the topic: 20%

RU-7 Project Evaluation

Normally students are expected to do the project within the college. However they are permitted to do the project in an industry or in a government research institute under a qualified supervisor from that organization. Progress of the project work is to be evaluated at least twice before the final evaluation. For this a committee headed by the head of the department with two other faculty members in the area of the project and the project supervisor/s.If the project is done outside the college, the external supervisor associated with the student shall also be a member of the committee.

Final evaluation of the project will be taken up only if the student has earned all course credits listed in the previous semesters Project evaluation shall be done by the same committee mentioned above with an external expert, either from an academic/R&D organization or from Industry, as an additional member. If the quantum of work done by the candidate is found to be unsatisfactory, the committee may extend the duration of the project up to one more semester, giving reasons for this in writing to the student. Normally further extension will not be granted and there shall be no provision to register again for the project.

RU -8 Project work outside the College

While students are expected to do their projects in their colleges, provision is available for them to do it outside the college either in a reputed software industry or in an institute of repute. This is only possible in the final semester. Student should apply for this through the project supervisor indicating the reason for this well in advance.
The application for this shall include the following:-

Topic of the Project:
Project work plan:
Reason for doing the project outside:
Institution/Company where the project is to be done:
External Supervisor Name:
Designation:
Qualifications:
Experience:

Letter of consent of the External Supervisor as well as from the organization is to be obtained.

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attendance are permitted by the Principal to write the end semester exam, the details must be reported to the University and the records must be maintained in the College and University.

In case of prolonged illness, break of study is permitted as per RU-3.

RU-3 Break of Study

A student is permitted to have a break of study.

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 new product.

iii) In case of any personal reasons that need a break in study.

For break of study due to illness, student should 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.

Students who want to initiate a start-up venture or a product development, have to 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. In the semester system followed by the University, break of study for an academic year is preferred over a semester break.

Students who want 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.

RU-4 Leave of Absence

Students who want to take leave under RU2 have to submit a leave letter to the teacher conducting the course. This letter is to be forwarded to the Head of the Department with recommendation of the teacher indicating the total leave of absence the student has so far availed. Leave is to be sanctioned by the Head of the Department. For medical leave over three days, medical certificate indicating the need for leave is required. After any medical leave exceeding five instruction days, on rejoining, the student has to produce the fitness certificate given by the doctor.

RU-6 Seminar

Students have to prepare a detailed report on the topic of the seminar and submit it to the teacher concerned. The seminar is to be of 20 minutes duration with another 5 minutes given for questions and answers. All students in the class have to attend the seminar without fail. Evaluation will be based on the report, seminar presentation as well as on the ability of the student to answer the questions put

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grievances and appeals and give its recommendations to the Principal for action.

8) Amendment to Ordinance/ Regulations/Rules

Notwithstanding all that has been stated above, the University has the right to modify any of the above Ordinance/Rules/regulations from time to time.

RULES:

RU-1 Course Code and Course Number

Each course is identified by a course code and a three digit number.
For regular MCA programme the course code will be CA XXX, where XXX is the course Number for 1st and 2nd semesters and the course code will be CA XXX, where XXX is the course Number for 3rd to 6th semesters as the subjects are same as that for lateral entry students.

Course Number: MCA101 - This refers to a course in first year, odd semester with the course number 101.
Course Number: MCA505 - This refers to a course in fifth year, odd semester with the course number 505.
These course numbers are to be given in the curriculum and syllabi.

RU-2 Attendance

Attendance is marked for each course. 85% attendance is mandatory for writing the semester examination in a course. Students who get Part Time Teaching Assistantship (PTTA) or Scholarships from the Central or State Governments or any other agencies are expected to have 100 % attendance. However, under unavoidable circumstances students are permitted to take leave. Leave is normally sanctioned for any approved activity taken up by students outside the college covering sports and other extra-curricular activities. Leave is also permitted on medical grounds or on personal exigencies. Leave of absence for all these is limited to 15 % of the academic contact hours for the course.

In case of long illness or major personal tragedies/exigencies the Principal can relax the minimum attendance requirement to 70%, to write the semester examination. This is permitted for one or more courses registered in the semester The Principal shall keep all records which led to his decision on attendance, for verification by the Academic Auditor. However this concession is applicable only to any two semesters during the entire programme.

In the case where students with less than 85% attendance and more than 70%

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will be given by the University.

u) MCA Degree

MGA degree will not have any classifications like distinction or first class.

v) Academic Discipline and Malpractices in Examinations

Every student is required to observe discipline and decorous behaviour.
Any act of indiscipline, misbehaviour and unfair practice in examinations will be referred to the Disciplinary Action Committee (DAC). Malpractices in examinations shall be viewed seriously and any such incident observed or reported by a faculty member or an invigilator associated with the examinations shall be reported to the Principal who in turn shall refer it to DAC. On the basis of the report and evidence available or gathered, DAC shall immediately initiate an enquiry giving the concerned student a chance to explain his/her case. Based on this the committee shall recommend the course of action in line with the guidelines formulated for this by the Controller of Examination of the University and forward it to the Principal for action.

Actions are to be based on the severity of the offence and are to be dealt with, on a course basis. Guidelines on this shall be given by the Controller of Examination which is to be followed by the Disciplinary Action Committee of the college.

The student may appeal to the Grievances and Appeals Committee for a relook on the matter. Based on the committee's report, the Principal shall take a final decision on the matter.
DAC shall be headed by a department head and shall have three other faculty members drawn from different departments as members. In case of malpractices in end semester examinations, the report given by the college DAC and the action taken by the Principal shall be intimated to the Controller of Examination of the University. The Controller of Examinations will refer the cases to the examination monitoring committee for review.

w) Student's Welfare Committee

Every college shall have a Student's Welfare Committee, constituted by the Principal of the college. This committee shall have at least three faculty members as members and the chairman shall be a senior faculty member in the rank of a Professor. This committee is entrusted with the task of looking after the welfare of the students by taking appropriate steps with the concurrence of the principal.

x) Grievances and Appeals Committee

Each college should have a Grievances Redress Committee constituted by the Principal to address the grievances of the students and to consider their appeals on any decisions made by the college. This committee consisting of at least three faculty members and chaired by a senior professor shall look into student's

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college shall oversee and monitor all the academic activities including all internal evaluations and examinations. This cell is to prepare academic audit statements for each semester at regular intervals. These reports are to be presented to the external academic auditor approved by the University, who will use it as a reference for his independent auditing and for the final report to the University.

Academic auditing shall cover:-

i) Course delivery covering syllabus, adherence to course plan, quality of question papers for internal examinations, internal evaluation, laboratory experiments, practical assignments, mini projects and conduct of practical classes and their evaluation.

ii) Co-curricular and Extra-curricular activities available for students, their organization and the mechanism of monitoring of activities points earned by the students.

iii) Academic functioning of the college encompassing students, faculty and college administration covering punctuality, attendance, discipline, academic environment, academic accountability, academic achievements and benchmarking.

r) Break of Study

A student may break study for a maximum duration of two semesters, preferably in one academic year, to initiate start-up ventures, product development etc. This is however permitted only on successfully completing the courses listed out in the first four semesters. Request for this with ample evidence to the seriousness of the venture should be forwarded to the college principal for approval. [RU-3]

Break of study on serious health reasons is also permitted with the approval of the college Principal in any semester. [RU-3]

All such cases of break of study are to be reported to the University. In both the cases, the maximum duration for completing the MCA programme will still be as given in 1(e).

s) Revaluation and Grade Improvement

There is no provision for revaluation of the end semester answer books as they are valued by two examiners or for improving the grade.

However, the student is permitted to check the answer books of the end semester examination after the results are declared. Any discrepancy in evaluation could be brought to the notice of the teacher concerned who will initiate appropriate action on this. The decision of the Controller of Examination shall be final on this.

t) Grade Cards

Students who have written the end semester examination will be given the grade cards for the registered courses on the website, in every semester. On earning the required credits for the degree, a consolidated grade sheet for the MCA programme

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failed in the course and an F grade will be awarded.

Internal marks given to the students who got 45% marks or more in the end semester examination shall be regulated in line with the end semester examination performance. Internal mark percentage shall not exceed 25% over the end semester mark %.

(For example if the end semester mark % is 45, then the maximum internal mark % is to be 45+25 = 70 %.)

In case the student writes the supplementary examination, the mark got in that will be taken into consideration for regulating the internal marks.

Those who have more than 45% marks in the end semester examination are awarded the grade based on both internal assessment and end semester examination marks. A student earns credits for a course if the grade is P or above.

o) Award of Grades

Grading is based on the % marks obtained by the student in a course, as given in 7(p). The grade card will only give the grades against the courses the student has registered. Semester grade card will give the grade for each registered course, Semester Grade Point Average (SGPA) for the semester as well as Cumulative Grade Point Average (CGPA).

p) Grades and Grade Points

Grades and Grade Points to be followed by the University

Grades	Grade Point (GP)		% of Total Marks obtained in the course
O	(Outstanding)	10	90% and above
A^+	(Excellent)	9	85% and above but less than 90%
A	(Very Good)	8.5	80% and above but less than 85%
B^+	(Good)	8	70% and above but less than 80%
B	(Above Average)	7	60% and above but less than 70%
C	(Average)	6	50% and above but less than 60%
P	(Pass)	5	45% and above but less than 50%
F	(Fail)	0	Less than 45%
FE		0	Failed due to Eligibility criteria [7-n]
I			Course Incomplete

SGPA and CGPA are calculated based on the above grading norms and are explained at the end of this document.

q) Academic Auditing

The University shall have a detailed academic auditing procedure in place comprising of an internal academic auditing cell within the colleges and an external academic auditing for each college. The internal academic auditing cell in each

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Ninth	23	199	Not insisted
Tenth	12	211	

REGULAR MCA				
	Allotted Credits	Cumulative Credits	Minimum cumulative credits required to register for courses in higher semesters	
Semester			**MCA Regular**	**MCA Lateral Entry**
First	22	22	Not insisted	Credit Transfer
Second	22	44	33 (75%)	Credit Transfer
Third	22	66	Not insisted	Not insisted
Fourth	22	88	75 (85%)	75 (85%)
Fifth	23	111	Not insisted	Not insisted
Sixth	12	123		

m) Class Committees

The Class Committees are to be in place in each college affiliated to the University. Beginning from the first semester, all branches of study will have class committees for every semester constituted by the respective Heads of the Departments. The chairman of the committee shall be a senior faculty member who does not offer any course during that semester.

Members:-

1. All faculty members teaching courses in that semester.
2. Two student representatives nominated by the head of the Department.

The class committees shall meet at least thrice in a semester – the first at the beginning of the semester, the second and the third after the first and the second internal tests respectively. Class committees should monitor the conduct of the courses, adherence to the course plan and time schedule, completion of the syllabus, standards of internal tests, evaluation process and difficulties faced by the students and take suitable remedial actions at the appropriate time. At the end of the semester, the committee should meet without student representatives to review the conduct of the course and finalize the internal assessment marks and approve them.

n) Eligibility for writing the end semester examination and for grading

Students with 45% or more marks in internal assessment in a course shall only be permitted to write the end semester examination in that course. Those with less than 45% internal marks shall be awarded FE (Failed due to Eligibility criteria) grade and have to register for the course again.

A student should have a minimum of 45% marks in the end semester examination to be eligible for grading in a course. Otherwise he/she will be considered to have

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4) Final Semester Project

Students, individually have to do a project approved by their faculty supervisor.

Project evaluation weights shall be as follows:-For convenience the marks are allotted as follows.

Marks for the Final Project: 100

Project Progress evaluation details

Project evaluation by the supervisor/s : 30 Marks

Presentation & evaluation by the Committee : 40 Marks

Evaluation by the External expert : 30 Marks

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

l) 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. 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 they are offered subject to the limitations imposed by the ordinances and course timetable.

Action plan, for dealing with course arrears in theory courses at the end of each semester to continue with the programme, is given below. Faculty advisors shall monitor, advice and support the students in this. Students should be informed about the minimum cumulative credits requirement to register for higher semester courses.

Eligibility Criteria for Registering for Higher Semester Courses

Integrated MCA			
Semester	Allotted Credits	Cumulative Credits	Minimum cumulative credits required to register for courses in highersemesters
First	22	22	Not insisted
Second	22	44	33 (75%)
Third	22	66	Not insisted
Fourth	22	88	75 (85%)
Fifth	22	110	Not insisted
Sixth	22	132	119 (90%)
Seventh	22	154	Not insisted
Eighth	22	176	167 (95%)

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i) Two internal tests each of 15 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 60 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 re-test 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 30 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.

2) For Laboratory /Practical courses			
a)	Practical records /Outputs	60 marks	(Internally by the College)
b)	Regular class Viva	10 marks	(Internally by the College)
c)	Final practical exam	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 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.

3) Seminar

Students have to prepare a detailed report on the topic of the seminar and submit it to the teacher concerned. The seminar is to be of 20 minutes duration with another 5 minutes given for questions and answers. All students in the class have to attend the seminar without fail. Evaluation will be based on the report, seminar presentation as well as on the ability of the student to answer the questions put forward. Faculty member in charge of the seminar and another faculty member in the department nominated by the Head of the Department are the evaluators for the seminar.

Distribution of marks for the seminar is as follows.

Marks for the report: 20%

Presentation: 60%

Ability to answer questions on the topic: 20%

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f. Course Registration and Enrolment

All students have to register for the courses they desire to attend in a semester. Students admitted to the first semester are advised to register for all courses offered in the first semester. 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 next semester. Later they have to enrol for these courses in the new semester based on the results in the previous semester. This allows them to make minor 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 proceedings pending. The dates for registration and enrolment will be given in the academic calendar. Any late registration or enrolment, allowed only up to 7 working days from the commencement of the semester, will attract a late fee.

A student can drop a course or substitute one already registered for by another, for valid reasons with the approval of the faculty advisor. However this has to be done within 7 working days from the commencement of the semester.

The maximum number of credits a student can register for in a semester is limited to 24.

g. 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.

h. 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 MCA 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.

i. Academic Assessment/Evaluation

1. Academic Evaluation of Courses

University follows a continuous academic evaluation procedure.
Academic evaluation procedure and corresponding weights are as follows:-

1) For theory courses: - The maximum marks for internal evaluation and end semester examination for theory courses are fixed as 40 and 60 respectively. Scheme of evaluation is as follows.

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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. 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. MCA Programme Structure

i. MCA programme 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.

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

iii. A common course structure for the MCA programme is to be followed and consists of the following.

Core Courses
Elective Courses
Laboratory Courses
Seminar
Project

iv. The curriculum of MCA programme is designed to have a minimum number academic credits based on 7 (l), for the award of the degree.

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, 3 or 4 hours per week
2 credits for the seminar
2 credits for Mini Project
12 credits for Final Project

v. The maximum number of lecture based courses and laboratory courses in any semester shall not exceed 5 and 2 respectively. The maximum credits in a semester shall be 23.

vi. 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.

d. Curriculum, List of Courses and Syllabi

MCA programme will have a curriculum, list of courses, syllabi and course plans approved by the Academic Committee of the University.

e. 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

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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 MCA 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 MCA Degree

The award of the MCA Degree shall be in accordance with the Ordinances and Procedures given by the University.

A student will be eligible for the award of MCA Degree of the University on meeting the following requirements;

a. Registered and earned the minimum credits, as prescribed in the curriculum.
b. No pending disciplinary action.

4. 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 Redress 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-v, 7-w, and 7-x.

6. Action against 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-v.

7. Miscellaneous Provisions:

a. 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

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1. Admission to the Master of Computer Applications

a) Eligibility for admission to the MCA programme, admission policy and procedure shall be decided from time to time by following the guidelines issued by All India Council for Technical Education (AICTE), Government of India and the Government of Kerala. Other important eligibility criteria are as listed out by the Director of Technical Education with the approval of the Government of Kerala.

b) Subject to Clause 1(a), Admission to MCA, shall be based on the guidelines given by the State and Central Governments on reservation. Other eligibility criteria for admission is currently prescribed by the Government of Kerala through Government orders.

c) The Branches of study and number of students admitted are to be based on the approval by the All India Council for Technical Education (AICTE) and the APJ Abdul Kalam Technological University (KTU).

d) Notwithstanding all that is stated above, the admission policy may be modified from time to time by the University, particularly to confirm to directions from the Government of Kerala and the Government of India.

e) The MCA programme is a credit based programme. The duration of the MCA programme will normally be three academic years spanning 6 semesters, MCA Lateral Entry programme will normally be two academic years spanning 4 semesters and Dual Degree MCA programme will normally be five academic years spanning 10 semesters. The maximum duration shall be,for MCA - five academic years spanning 10 semesters, for MCA Lateral Entry - four academic years spanning 8 semesters, for Dual Degree MCA – seven academic years spanning 14 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 after the declaration of results of end semester examinations, 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.

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 85% 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

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(NAAC Accredited)
(Approved by AICTE, Affiliated to APJ Abdul Kalam Technological University, Kerala)



M.Tech

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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O-1 Admission to the M. Tech. Programme

Candidates who have been awarded or qualified for the award of the Bachelor's degree in Engineering / Technology, from an Institution approved by AICTE are eligible for admission to the M. Tech., Programme. Eligibility of candidates having MCA/MSc qualifications will be decided from time to time by following the guidelines issued by All India Council for Technical Education (AICTE) and the Government of Kerala and notified separately. Other important eligibility criteria are as listed out by the Director of Technical Education with the approval of the Government of Kerala.

O-1.1 Candidates qualified in Graduate Aptitude Test in Engineering (GATE) and admitted to the M. Tech. programme are eligible to receive Half Time Teaching Assistantship (HTTA) as per the rules of the All India Council for Technical Education (AICTE)/Ministry of Human Resource Development (MHRD).

O-1.2 Sponsored candidates from Industries, R&D organizations, National Laboratories as well as Educational Institutions, with a bachelor's degree in engineering are eligible for admission to the M. Tech. programme.

O-1.3 Foreign nationals whose applications are received through Indian Council of Cultural Relations, Government of India are also eligible for admission to the M. Tech. programme.

O-1.4 Announcements for M. Tech. Programmes will be made by the DTE, Government of Kerala.

O-1.5 Selection of candidates for the M. Tech programme will be done centrally or monitored by the Directorate of Technical Education as per the guidelines given on this by the Government of Kerala

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O-1.6 The number of candidates to be admitted to each M. Tech stream will be as per the approval of the University which shall be based on decision on this given by the All India Council for Technical Education.

O-1.7 Admission will be complete only on meeting all the other requirements mentioned in the letter of admission and on payment of the fees.

O-1.8 Candidates who have the Associate Membership of Professional Bodies that are approved by the University and have qualified in GATE shall also be eligible for admission to the M. Tech. programme.

O-1.9 The reservation policy of the Government of Kerala and the Government of India shall be followed in admission to the M. Tech. programme.

O-1.10 All admission will be governed by the procedure laid down for this by the Director of Technical Education, Kerala and the Government of Kerala.

O-1.11 Notwithstanding all that is stated above, the admission policy may be modified from time to time by the University, particularly to confirm to directions from the Government of Kerala and the Government of India.

O-2 Duration of the Programme

The normal duration of the M. Tech programme, including the project work, shall be four semesters.

O-3 Post Graduate Programme Clusters

The University shall identify clusters of colleges offering M. Tech programmes in different streams and allow them to formulate procedures for the smooth conduct of all academic activities associated with the M. Tech programme, in line with the ordinances/regulations of the University. These clusters shall have academic autonomy, regulated by a Cluster level Graduate Committee [CGPC] consisting of all the principals of the colleges in the cluster. The Chairman of CGPC shall be an eminent academician nominated by the Vice Chancellor. The CGPC will be responsible for all academic matters including the curriculum, syllabi, course plans, internal evaluations, end semester examinations, and grading for all streams of M. Tech. programme offered by the colleges in the cluster.
The CGPC can formulate additional rules for other academic aspects that are not covered by this Ordinance.

O-4 Specialization Streams in M. Tech., Programme

The M. Tech. programme streams offered by each cluster as well as the eligibility of candidates of different B. Tech. branches or having other qualifications, for each of them shall be approved by the CGPC.

O-5 M. Tech. Programme Structure

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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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xi) On their request, CGPC shall examine the academic records and permit candidates with B. Tech (Honours) who have earned credits for any relevant graduate level courses to transfer credits towards the M. Tech. programme. Candidates who received B. Tech (Honours) degree just prior to their M. Tech admission are permitted to transfer up to 9 credits. For those who received the B. Tech (Honours) degree within three years prior to their M. Tech. admission are permitted to transfer up to 6 credits.

Xii) The maximum number of lecture based courses and laboratory courses in any semester shall not exceed 5 and 2 respectively. The maximum credits in a semester shall be 23.

Xiii) Extension of Programme duration

The normal duration of the programme shall be four semesters.

In case of prolonged illness or other personal exigencies, the university may allow a student who has earned credits for at least one semester, to extend the programme up to the maximum duration of six semesters.

Students who have earned credits for the courses listed in the first two semesters are permitted to transfer their registration as external candidates if they take up a job. However, they have to complete the programme within six semesters.

O-6. Course Registration and Enrolment

All students have to register for the courses they desire to attend in a semester. Students admitted to the first semester are advised to register for all courses offered in the first semester. 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 next semester. Later they have to enrol for these courses in the new semester based on the results in the previous semester. This allows them to make minor 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 proceedings pending. The dates for registration and enrolment will be given in the academic calendar. Any late registration or enrolment, allowed only up to 7 working days from the commencement of the semester, will attract a late fee.

A student can drop a course or substitute one already registered for by another, for valid reasons with the approval of the faculty advisor. However this has to be done within 7 working days from the commencement of the semester.

The maximum number of credits a student can register for in a semester is limited to 24.

O-7 Recommended Credit distribution over the semesters

First Semester	: 20 to 23 credits
Second Semester	: 18 to 19 credits
Third Semester	: 14 credits

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Fourth Semester : 12 credits [Project]

O-8. Academic Assessment/Evaluation

The University follows a continuous academic evaluation procedure.

The Assessment procedure and corresponding weights recommended are as follows:-

For theory courses

i) Two internal tests, each having 15%

ii) Tutorials/Assignments/ Mini projects having 10%

iii) End Semester examination having 60%

All the above 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 member and the Head of the Department concerned for a re-test which shall be conducted soon after the completion of the second test and before the end semester examination. The re-test will cover both the first and the second test course plans. If a student misses both the scheduled tests, there is no provision for any retests and zero marks will be given for each test. In case of serious illness and where the attendance is above 70% the Principal may permit the conduct of the tests for a student based on his application and other relevant medical reports. Such cases are to be reported to CGPC.

For Laboratory /Practical courses

i) Practical Records /outputs 40%

ii) Regular Class Viva-Voce 20%

iii) Final Test (Objective) 40%

O-9. 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 and appear for all internal evaluation procedures for the completion of the course. However, earning of credits is only on completion of the end semester/supplementary examination and on getting a pass grade. Students, who had completed a course but could not write the end semester/supplementary examination for genuine health reasons or personal exigencies, if otherwise eligible are permitted to write the semester examination, at the next opportunity and earn credits without undergoing the course again. Failed candidates having more than 45% marks in their internals can also avail of this option. However, those who are not eligible to appear for the end semester examination have to register and undergo the course again, whenever it is offered, to earn the credits.

O-10. End Semester and Supplementary Examinations

At the end of the semester, the end semester examination will be conducted in all courses offered in the semester and will be of three hours duration unless otherwise specified. Supplementary examinations are to be conducted for eligible candidates registered for them, before the commencement of the next semester.

O-10.1 Eligibility to write the End Semester Examination and Grading

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Eligibility criteria to appear for the semester examination are the attendance requirements in the course, 45% or more marks in the internal evaluation and having no pending disciplinary action. The minimum attendance for appearing for the semester examination is 85% in the course. In case of serious illness there is a relaxation for attendance [O-14.xvi]. Those who do not meet the eligibility criteria shall be awarded an FE Grade and have to register again for the course.

A student should have a minimum of 45% marks in the end semester examination to be eligible for grading in a course. Otherwise he/she will be considered to have failed in the course and an F grade will be awarded.

O-10.2 Eligibility to write the Supplementary Examination

Only failed students and those who could not write the semester examination due to health reasons or other personal exigencies that are approved by the Principal can register for the supplementary examination provided they meet the eligibility requirements given in O-10.1. Grades awarded in the supplementary examination will be taken as the semester grades in these courses.

O-11. Conduct of End Semester Examination

The Clusters will prepare the question papers, conduct the end semester examinations, organize the valuation of the answer scripts, finalise the results and submit it to the University, as per the academic calendar.

O-12. Award of M. Tech., Degree

The award of the M. Tech. Degree shall be in accordance with the Ordinances and Procedures given by the University.

A student will be eligible for the award of M. Tech. Degree of the University on meeting the following requirements;

i) Registered and earned the minimum credits, as prescribed in the curriculum, for the stream of specialization.
ii) No pending disciplinary action.

O-13. Amendments to Ordinance:

Notwithstanding all that has been stated above, the University has the right to modify any of the above provisions of the ordinance from time to time.

O- 14. Miscellaneous provisions:

i) Stream of Specialization:

The streams of specializations are to be in line with the approval given on this by the All India Council for Technical Education.

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ii) Language of Instruction

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

iii) Academic Calendar

The University shall publish in its website the academic calendar for every academic semester indicating the date of commencement of the semester as well as 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. 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.

Iv) Eligibility to continue with the programme

A student has to earn a minimum number of credits in a semester to register for higher semester courses. This should be at least 2/3rd of the credits for the courses listed in for the semester. CGPC shall formulate the rules based on this and spell out the procedure to proceed with the programme.

Failed students who have more than 45% marks in the internal course evaluation are permitted to write the semester examination without registering and undergoing the course. Those with less than 45% in internal course evaluation have to register again for the course, attend the classes and earn the credits.

v) Seminar

Students have to register for the seminar and select a topic in consultation with any faculty member offering courses for the programme. A detailed write-up on the topic of the seminar is to be prepared in the prescribed format given by the Department. The seminar shall be of 30 minutes duration and a committee with the Head of the department as the chairman and two faculty members from the department as members shall evaluate the seminar based on the report and coverage of the topic, presentation and ability to answer the questions put forward by the committee.

Suggested evaluation procedure:-

Faculty member in charge of the seminar and another faculty member in the department nominated by the Head of the Department are the evaluators for the seminar. Distribution of marks for the seminar is as follows.

Marks for the report: 30%
Presentation: 40%
Ability to answer questions on the topic: 30%

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vi) Project work

Project work is spread over the third and fourth semesters. Project work is to be evaluated both in the third and the fourth semesters. Based on these evaluations the grade is finalised only in the fourth semester.

Project evaluation weights shall be as follows:-
For convenience the marks are allotted as follows.

Total marks for the Project: 150

In the 3rd Semester:- Marks:50
Project Progress evaluation details:

Progress evaluation by the Project Supervisor	: 20 Marks
Presentation and evaluation by the committee	: 30 Marks

In the 4th Semester:- Mraks:100

Project evaluation by the supervisor/s	: 30 Marks
Presentation & evaluation by the Committee	: 40 Marks
Evaluation by the External expert	: 30 Marks

vii) Faculty Advisor, Class Committee

a) Faculty Advisor

The Head of the Department offering the M. Tech. programme shall nominate senior faculty members as faculty advisors who shall advise the students in academic matters and support them in their studies. Their role is to help the students in academics and personal difficulties related to studies. A faculty advisor may support a group of students in a semester.

b) Class Committees are to be in place for all M. Tech. programs in the college.

Class Committee

All M. Tech streams of specialization will have class committees for each semester, constituted by the respective Heads of Departments.

The Chairman of the committee shall be a senior faculty member who does not offer any course for that stream in that semester.

Members:-

i) All faculty members teaching courses for the stream in that semester.
ii) Two student representatives nominated by the Head of the Department, from the stream.

Class committees shall meet at least thrice in a semester - one in the beginning and one around the middle of the semester and one at least two weeks before the semester examinations. These committees should monitor the conduct of the courses, adherence to the course plan and time schedule, completion of the

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syllabus, standards of internal tests and evaluation process and address the difficulties faced by the students and take suitable remedial actions at the appropriate time. Before the end semester examination, the committee should meet without the student representatives and finalise the internal marks. A report on the student performance in each course should be prepared and submitted to the CGPC by the colleges.

viii) Award of Grades

Grading is based on the marks obtained by the student in a course. [O-14 ix]

The grade card will only show the grades against the courses the student has registered.

The semester grade card will show the grade for each registered course, Semester Grade Point Average (SGPA) for the semester as well as Cumulative Grade Point Average (CGPA).

ix) Grades and Grade Points

Grades and Grade Points as per UGC guidelines are to be followed by the University

Grades	Grade Point	% of Total Marks obtained in the course
O	10	90% and above
A^+	9	85% and above but less than 90%
A	8	80% and above but less than 85%
B^+	7	70% and above but less than 80%
B	6	60% and above but less than 70%
C	5	50% and above but less than 60%
P	4	45% and above but less than 50%
F	0	Less than 45%
FE	0	Failed due to eligibility criteria [O.10.1]
I		Course Incomplete

Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA) are calculated based on the above grading norms and are explained at the end of this document.

x) Academic Auditing

The University shall have a detailed academic auditing procedure in place comprising of an internal academic auditing cell within the college and an external academic auditing for each college. The internal academic auditing cell in each college shall oversee and monitor all academic activities including all internal evaluations and semester examinations. This cell is to prepare academic audit statements for each semester at regular intervals of four weeks of instruction. These reports are to be presented to the external academic auditor appointed by

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the University, who will use it as a reference for his independent auditing and for the final report to the University.

Academic auditing will cover:-

i) Course delivery covering syllabus, adherence to course plan, quality of question papers for internal examinations, internal evaluation, laboratory experiments, practical assignments, mini projects, conduct of practical classes and their evaluation. Semester examination and academic performance of the students.

ii) Co-curricular and Extra-curricular activities available for students, and their organization.

iii) Academic functioning of the college encompassing students, faculty and college administration covering punctuality, attendance, discipline, academic environment, academic accountability, academic achievements and benchmarking.

xi) Revaluation and Grade improvement

There is no provision for revaluation of the semester answer books or for improving the grade.

Students are permitted to check the answer books of the semester examination, after the results are declared. Any discrepancies in evaluation could be brought to the notice of the teacher concerned who will initiate appropriate action on this and report to the CGPC for a final decision on this.

xii) Grade Cards

Students who have written the semester examination will be given the grade cards for the registered courses, in every semester by the respective colleges. On earning the required credits for the degree, a consolidated grade sheet for the M. Tech programme will be issued by the University on the recommendation of the respective CGPC.
The M. Tech. degree will not have any classification like distinction or first class.

xiii) Academic Discipline and Malpractices in Examinations

Every student is required to observe discipline and decorous behaviour.
Any act of indiscipline, misbehaviour and unfair practice in examinations will be referred to the **Disciplinary Action Committee (DAC)**. Malpractices in examinations shall be viewed seriously and any such incident observed or reported by a faculty member or an invigilator associated with the examinations shall be reported to the Principle who in turn shall refer it to DAC. On the basis of the report and evidence available or gathered, DAC shall immediately initiate an enquiry giving the concerned student a chance to explain his/her case. Based on this the committee shall recommend the course of action in line with the guidelines formulated for this by the Controller of Examination of the University and forward it to the Principal for action.

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Actions are to be based on the severity of the offence and are to be dealt with, on a course basis. Guidelines on this shall be given by the Controller of Examination which is to be followed by the Disciplinary Action Committee of the college.

DAC shall be headed by a department head and shall have three other faculty members drawn from different departments as members. In case of malpractices in end semester examinations, the report given by the college DAC and the action taken by the Principal shall be intimated to the Controller of Examination of the University

xiv) Student's Welfare Committee

Every college shall have a Student's Welfare Committee, constituted by the Principal of the college. This committee shall have at least three faculty members as members and the chairman shall be a senior faculty member in the rank of a Professor. This committee is entrusted with the task of looking after the welfare of the students by taking appropriate steps with the concurrence of the principal.

xv) Grievances and Appeals Committee

Each college should have a Grievances Redress Committee constituted by the Principal to address the grievances of the students and to consider their appeals on any decisions made by the college. This committee consisting of at least three faculty members and chaired by a senior professor shall look into student's grievances and appeals and give its recommendations to the Principal for action.

xvi) Attendance

Attendance is marked for each course. 85% attendance is mandatory for writing the semester examination in a course. Students who get Part Time Teaching Assistantship (PTTA) or Scholarships from the Central or State Governments or any other agencies are expected to have 100 % attendance. However, under unavoidable circumstances students are permitted to take leave. Leave is normally sanctioned for any approved activity taken up by students outside the college covering sports and other extra-curricular activities. Leave is also permitted on medical grounds or on personal exigencies. Leave of absence for all these is limited to 15 % of the academic contact hours for the course.

In case of long illness or major personal tragedies/exigencies the Principal can relax the minimum attendance requirement to 70%, to write the semester examination. This is permitted for one or more courses registered in the semester. The Principal shall keep all records which led to his decision on attendance, for verification by the Academic Auditor. However this concession is applicable only to any one semester during the entire programme. In case of prolonged illness, break of study is permitted up to two semesters which could extend the programme up to six semesters, the maximum permitted by the regulations.

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xvii) Leave of Absence

Students who desire to take leave have to apply for it to the teacher conducting the course. This application together with any supporting documents like doctor's certificate or other relevant information is to be forwarded to the Head of the Department with the recommendation of the teacher indicating the total leave of absence the student has so far availed. Approval for leave is to be given by the head of the department. After any prolonged medical leave, normally exceeding five instruction days, on rejoining, the student has to produce the fitness certificate given by the doctor.

xviii) Project Evaluation

Normally students are expected to do the project within the college. However they are permitted to do the project in an industry or in a government research institute under a qualified supervisor from that organization. Progress of the project work is to be evaluated at the end of the third semester. For this a committee headed by the head of the department with two other faculty members in the area of the project and the project supervisor/s. If the project is done outside the college, the external supervisor associated with the student shall also be a member of the committee.

Final evaluation of the project will be taken up only if the student has earned all course credits listed in the first three semesters. Project evaluation shall be done by the same committee mentioned above with an external expert, either from an academic/R&D organization or from Industry, as an additional member. Final project grading shall take into account the progress evaluation done in the third semester and the project evaluation in the fourth semester. If the quantum of work done by the candidate is found to be unsatisfactory, the committee may extend the duration of the project up to one more semester, giving reasons for this in writing to the student. Normally further extension will not be granted and there shall be no provision to register again for the project.

Xix) Project work outside the College

While students are expected to do their projects in their colleges, provision is available for them to do it outside the college either in an industry or in an institute of repute. This is only possible in the fourth semester and the topic of investigation should be in line with the project part planned in the 3rd semester. Student should apply for this through the project supervisor indicating the reason for this well in advance, preferably at the beginning of the 3rd semester. The application for this shall include the following:-

Topic of the Project:
Project work plan in the 3rd Semester:
Reason for doing the project outside:
Institution/Organization where the project is to be done:

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Pin 680 597 Kerala

External Supervisor – Name:
Designation:
Qualifications:
Experience:

Letter of consent of the External Supervisor as well as from the organization is to be obtained.

This application is to be vetted by the head of the department and based on the decision taken the student is permitted to do the project outside the college.

Ragging

Ragging of any nature is a criminal and non-bailable offence. Involvement in ragging shall lead to stringent punishment, including imprisonment as per the law of the land. A student, whose involvement in ragging is established, shall be summarily dismissed from the college. Each student of the Institute, along with his/her parent, is required to give an undertaking in this regard and the same is to be submitted at the time of registration.

Calculation of SGPA/CGPA

Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) are calculated as follows.

SGPA = $\Sigma(C_i \times GP_i)/\Sigma C_i$ 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 registered by the student in the semester. Here the failed courses are also accounted.

CGPA = $\Sigma(C_i \times GP_i)/\Sigma C_i$ 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 registered by the student during all the semesters for which the CGPA is needed. Here the failed courses are also accounted. CGPA of all courses passed may also be given.

Thiruvanthapuram
26-6-2015

Registrar

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NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE
(NAAC Accredited)
(Approved by AICTE, Affiliated to APJ Abdul Kalam Technological University, Kerala)

MBA

KERALATECHNOLOGICAL UNIVERSITY

ACADEMIC ORDINANCES

MBA PROGRAMMEOF

CET SCHOOL OF MANAGEMENT

July 2015

NEHRU COLLEGE OF ENGINEERING & RESEARCH CENTRE
THIRUVILWAMALA THRISSUR-DT.

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ORDINANCES

O-1

Candidates who have been awarded or qualified for the award of the Bachelor's degree in Engineering / Technology / Business Administration with 50% marks in aggregate or Bachelor's degree in Arts / Science / Commerce with 50% marks in aggregate for the main course papers are eligible to apply for admission to the MBA programme.

O-2

Duration of the MBA programme will normally be two academic years spanning sixtrimesters.

O-3

Reservation policy of the Government of Kerala and the Government of India shall be followed in admissions to the MBA programme.

O-4

Award of MBA degree shall be in accordance with the academic regulations of the University.

O-5

Notwithstanding any that are stated in the ordinances, admission policy and procedure shall be decided from time to time by following the guidelines issued by the Government of Kerala and the Government of India.

O-6 Admission to the MBA programme

O-6.1 Admission to MBA programme will be as per the ordinances and regulations of the University following the guidelines given by the State and Central Governments on reservation.

O-6.2 The number of students admitted are decided by the University based on the approval by the competent authorities.

O-6.3 It is mandatory that students seeking admission to the MBA programme should have a valid score in a national level admission test, notified by the University or Government of Kerala.

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O-6.4 Admission to the programme as per the admission procedure is final and binding for the whole duration of the programme.

O-6.5 Foreign nationals whose applications are received through Indian Council or Cultural Relations, Government of India, are also eligible for admission to the MBA programme.

O-6.6 Announcements for MBA programmes, including brochures, will be made by CET School of Management, as per the ordinances and regulations of the University.

O-6.7 Admission will be complete only on meeting all the requirements mentioned in the letter of admission and on payment of the fees. Failing to comply with this will lead to cancellation of admission.

O-7 Language of Instruction and Evaluation

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

O-8 Academic Calendar

The University shall publish the academic calendar for every academic trimester / year, indicating the commencement of trimesters as well as instructions, course registration date(s), enrolment date(s), weeks in which the mandatory internal tests are to be conducted, dates for completing internal evaluations, last instruction day in the trimester, schedule of trimester examinations and official holidays in the trimester / academic year. CET School of Management has to publish its own academic calendar in line with the University academic calendar indicating other eventsthat are planned in each trimester.

O-9 MBA Programme Structure

O-9.1 MBA programme will be structured on credit based system following the trimester pattern with continuous evaluation.

O-9.2 Duration for the MBA programme will normally be 6 (six) trimesters. Maximum duration is 9 (nine) trimesters.

O-9.3 Each trimester shall have 55 instruction days; i.e. 11 weeks of instruction.

O-9.4 The general course structure of MBA programme will be as given below:

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1. Core courses
2. Specialization Electives
3. Project work

O-9.5 A Student can opt for specialization in the second year as per rules framed for this by the Academic Board for Management Programme (ABM).

O-9.6 The curriculum of MBA programme is designed to have a total of 115 credits for the award of the degree. Curricula for the first threetrimesters will be common for all specializations of the MBA programme.

O-9.7 Credit Assignment

Three (3) credits for each of the23 courses in the core segment, each of which havingfour hours of instructions per week

Three (3) credits for each of the 10 elective courses of specialization, having four hours of instructions per week. The elective courses will be offered based on students' options, subject to the condition that the number of students opting for an elective course should be atleast10 or 15% of the total students admitted to the programme, whichever is higher. The specialization areas offered are Finance, Marketing, Human Resource Management, Information Systems and Operations.

Three (3) credits for soft-skill course spread over the first threetrimesters, with internal evaluation in the first twotrimesters and an exam in the thirdtrimester for grading.

A two-month summer internship in an organization in between the third and fourthtrimesters is part of the programme with three (3) credits. The credit is accounted in the sixthtrimester.

Four (4) credits for a project carried out in an area of specialization during the fifthtrimester

Six (6) credits for a comprehensive project which will be organization based to be completed during the sixthtrimester. Evaluation of the project will be based on a report, presentation and viva-voce.

O-9.8 Credits are apportioned among knowledge segments in the core areas and elective coursesthat are approved by the Academic Board for

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Management Programme (ABM) constituted for CET School of Management by Kerala Technological University.

O-9.9 Self-selected projects for all Courses will form part of the internal evaluation process.

O-9.10Foundation Course (non-credit)

The purpose of theFoundation Course is to bring all students who are admitted to MBA programmes from various streams at par in terms of knowledge in Accounting, Statistics & Mathematics, Economics, Principles & Practices of Management and Computer Applications.

The Foundation Course will have five components: Basic accounting principles; Principles and practices of management; Computer applications; Mathematics and Statistics; Economics (18 hrs X 5 components = 90 hours). Topics to be covered in these five components will be decided at college level.

The Foundation Course is to be offered for 15 working days at the beginning of the 1st Trimester. Students will have to obtain at least 75% marks in the examination conducted at the end of the Foundation Course for each of the componentsand the same is mandatory for grading in the third trimester examination. Those who score less than 75%will be given chances to improve their score to the required minimum, once each in the first three trimesters.

O-9.11 Electives:The students can select elective courses from the list of elective courses offered for the programme. Specialization depends on the number of electives opted by the student in a specific area.Students will have to opt forfour elective courses in the fourth trimester, four electives in the fifth trimester and two electives in the sixth trimester.

The students will have the option of auditing additional courses in any one of the specialisations. Audited courses will not be considered for computing the CGPA.

O-9.12Credits are assigned to courses at the rate of one credit for 15 lecture hours.

O-9.13 University may allow students to transfer credits, with the approval of the Academic Board for Management Programme (ABM).

O-10 Curriculum, List of Courses and Syllabi

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O-10.1 The MBA programme will have a curriculum, list of courses, syllabi and course plans approved by the Academic Board for Management Programme (ABM).

O-10.2 Courses are categorized as Core Theory (CT), Electives (EL), Projects (PR) and Internship (IS)

O-10.3 Courses and trimesters

Trimester 1: 18 credits – Six Core courses (CT)
Trimester 2: 18 credits – Six Core courses (CT)
Trimester 3: 21 credits – Six Core courses (CT), Three credits earned for soft-skill in the first three trimesters
Trimester 4: 18 credits – Two Core courses (CT) and Four Electives (EL)
Trimester5: 22 credits – Two Core courses (CT), FourElective courses (EL), and Project in an area of specialization (PR)
Trimester6: 18 credits – One Core course (CT) and TwoElective courses (EL), Comprehensive project (PR) and internship credit earned between 3rd and 4th trimester (IS)

O-11 Programme duration

Normal duration of the programme shall be for sixtrimesters, each of11 weeks duration. In case of prolonged illness or other personal contingencies, the University may allow a student who has earned credits for atleast one trimester, to extend the program by three moretrimesters at the most.

Students who have earned credits for courses listed in the first threetrimesters are permitted to register as external candidates if they take up a job. However, they have to complete the programme within a total of six trimesters.

O-12 Course Registration and Enrolment

It is mandatory for students to register for the courses they want to attend in a trimester. Students have to register for all courses offered in the first trimester at the time of admission and for all courses offered in the second and third trimesters before the commencement of these trimesters. They do not have to enrol for the first three trimesters. All students are required to register at the end of the third, fourth and fifthtrimesters for the courses they want to take in the followingtrimester. Later they have to enrol for these courses in the new trimester based on the previous trimester results. This allows them to make minor changes in the list of courses already registered for. Before enrolment, students should clear all dues including

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any fees to be paid and should not have any disciplinary issues pending. The dates for registration and enrolment will be announced in the academic calendar of CET School of Management. Any late registration or enrolment, allowed up to 7 working days from the commencement of the trimester, will attract a late registration/enrolment fee.

A student can drop a course or substitute one already registered by another, for valid reasons with the approval of the faculty advisor. However this has to be done within seven working days from the commencement of the trimester.

The maximum number of credits a student can register in a trimester is limited to 22.

O-13 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 and appear for all the internal evaluation procedures for completion of the course. However, earning of credits is only on completion of the trimester examination and on getting a pass grade. Students, who have completed a course but could not write the trimester examination for valid reasons, are permitted to write the trimester examination at the next opportunity and earn the credits without undergoing the course again. Failed candidates or those not allowed to take the trimester examination for want of attendance or for other reasons, do not have this option.

O-14 Core courses, prerequisites and electives

Courses identified as core courses are mandatory courses for which the credits are to be earned for the award of the MBA degree. For electives, failure to earn credits does not necessarily require repeating the course. Instead another approved elective could be permitted as a replacement course by the faculty advisor concerned. For some courses there could be a prerequisite course completion requirement for registration.

O-15 Trimester and Supplementary Examinations

At the end of the trimester, trimester examination will be conducted in all courses offered in the trimester and will be of three hours duration unless otherwise specified. Supplementary examinations are to be conducted before the commencement of the next trimester, for eligible candidates registered for them.

O-15.1 Eligibility to write the trimester examination

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The major eligibility criteria for the trimester examination are attendance in the course and no pending disciplinary action. The minimum attendance for appearing for the trimester examination is 90% in each course.

O-15.2 Eligibility to write the Supplementary examination

Only failed students and those who could not write the trimester examination due to health reasons or other contingencies that are approved by the Principal of the College can register for the supplementary examination. Grades awarded in the supplementary examination will be taken as trimester grades in these courses and will be based on the trimester examination grading pattern in that course.

O-15.3 Re-registering for a course or courses

Students who could not earn the required minimum credits at the end of a trimester or had to discontinue the programme for valid reasons, are permitted to register again for the course on written request, when it is offered in the next academic year.

O-16 Academic Assessment/Evaluation

The university follows a continuous academic evaluation procedure.

O-16.1 Assessment procedure and the corresponding weights are as follows:-

For theory courses

i) Two internal tests, each having 15%
ii) Assignments having 10%
iii) Project & Presentation having 15%
iv) Trimester examination having 60%

All the above are mandatory requirements to earn credits.

Students who have missed either the first or second internal test can register with the consent of faculty and the Director (CET-SOM) for a re-test which shall be conducted soon after the completion of the second test and before the trimester examination. The re-test will cover both first and second test course plans.

All the above assessments are mandatory to earn credits.

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O-17 Project in the area of Specialisation (during 5th trimester)(3 Credits)

Evaluation is based on the following:-

i)	Two progress assessments	20%
ii)	Final Project Report	30%
iii)	Project presentation and Viva-voce	50%

If the project work is not completed satisfactorily, the student has to work further and again appear for assessment on a specified date, not earlier than two weeks after the first evaluation. The project assessment board shall consist of the following members.

Chairman:	Director, CET School of Management
Members:	Project supervisor of the student
	One faculty member from the SOM

O-18 Comprehensive Project which is organisation based (6 Credits)

Evaluation is based on the following:-

i)	Two progress assessments	20%
ii)	Final Project Report	30%
iii)	Project presentation and Viva-voce	50%

If the project work is not completed satisfactorily, the student has to work further and again appear for assessment on a specified date, not earlier than two weeks after the first evaluation. The project assessment board shall consist of the following members.

Chairman:	Director, CET School of Management
Members:	Project supervisor of the student
	One external faculty in Management Studies
	One faculty member from SOM
	One external member from industry

O-19 Faculty Advisor/Counsellor

All students will have faculty advisors whose role will be:-

i) To guide and help them on academics
ii) To monitor their progress in academics and advise them
iii) To counsel them and hand hold them in any difficulty

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O-20 MBA Course Committee

The MBA Course committee is to be in place with Director, CET School of Management as the Chairman. Other members of the Committee are:

i) All teachers in CET-SOM offering the course
ii) Four student representatives nominated by the Director, CET-SOM.

Course committee shall meet at least twice in trimester - one around the middle of the trimester and one before the end of the trimester. These committees should monitor the conduct of the courses, adherence to the course plan and time schedule, completion of the syllabus, standards of internal tests and evaluation process and difficulties faced by the students, analyse the feedbacks collected from the students and take suitable remedial actions at the appropriate time. Immediately after the trimester, the committee should meet without student representatives to review the internal assessment marks and approve them.

O-21 Award of Grades

Grading is based on the total marks obtained by the student in a course. University will follow relative grading. The grade card will only give the grades against the courses.

Trimester grade card will give the grade for each registered course, Grade Point Average (GPA) for the trimester as well as Cumulative Grade Point Average (CGPA).

O-22 Grades and Grade Points as per UGC guidelines followed by the University are as given below:

Grades	Grade Point	Percentage of total marks obtained in the course
S	10	90% and above
A^+	9	85% and above but less than 90%
A	8	80% and above but less than 85%
B^+	7	70% and above but less than 80%
B	6	60% and above but less than 70%
C	5	50% and above but less than 60%
P	4	45% and above but less than 50%
F	0	Less than 45%
FA	0	Failed due to lack of attendance
FS	0	Failed in Trimester examination
I		Course Incomplete

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GPA and CGPA are calculated based on the above grading norms.

O-23 Revaluation and Grade improvement

These options are not available. However the student is permitted to check the answer book of the trimester examination after the results are declared. Any discrepancies in evaluation could be brought to the notice of the teacher concerned who will initiate appropriate action on this. The decision of the university shall be final on this.

O-24 Grade Cards

Students who have written the trimester examination will be given the grade cards for the registered courses, in every trimester. On earning the required credits for the degree, a consolidated grade sheet for the MBA program will be given.

O-25 Classifications like Distinction or First Class

MBA degree will not have any classifications like distinction or first class.

O-26 MBA Specialisation Course Certification

The MBA Programme offers elective courses in specialization areas. Students are allowed take more courses in addition to the ten elective courses, in which case, an additional certificate will be given named **MBA Course Certification in <name of elective course>.** However, the credits obtained in such courses will not be considered for calculating the GPA or CGPA.

O-27 Discipline

Every student is required to observe discipline and decorous behaviour both inside and outside the college campus and refrain from any activity which may tarnish the image of the college and the university.

Any act of indiscipline or misbehaviour will be referred to the Disciplinary Action Committee (DAC) of the college that will make detailed enquiry on the matter and decide on the course of action to be taken and forward it to the Director (CET-SOM) for implementation. The student may appeal to the Principal whose decision on the matter shall be final.

Malpractices in examinations shall be viewed seriously and any such incident observed or reported by a faculty member or an invigilator associated with the examination shall be reported to the Director of CET School of Management, who in

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turn shall refer it to DAC through the Principal of the College. On the basis of the report and evidence available or gathered, DAC shall immediately initiate enquiry giveng the concerned student a chance to explain his / her case. Based on this, the committee shall recommend the course of action in line with the guidelines formulated for this by the Controller of Examinations of the University and forward it to Principal for action.

Ragging of any nature is a criminal and non-bailable offence. Involvement in ragging shall lead to stringent punishment, including imprisonment as per the law of the land. A student, whose involvement in ragging is established, shall be summarily dismissed from the College. Each student of CET School of Management, along with his / her parent, is required to give an undertaking in this regard and the same is to be submitted at the time of registration.

O-28 Miscellaneous Provisions

Provisions for Students' Welfare Committee and Grievances & Appeals Committee are as per the provisions given in the ordinances for M Tech programmes of the University.

Leave of absence: Students who desire to take leave have to apply for it to the concerned Faculty Advisor. The application together with any supporting documents like doctor's certificate or other relevant information is to be forwarded to the Director of CET SOM, with the recommendation of the teacher indicating the total leave of absence the student has so far availed. Approval for leave is to be given by the Director, CET SOM. After any prolonged medical leave, normally exceeding five instruction days, on re-joining, the student has to produce the fitness certificate given by the doctor.

O-29 Amendment to Ordinance

Notwithstanding all that has been stated above, the University has the right to modify any of the above ordinances from time to time.

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Modified Curriculum for B.Tech Degree Semesters I and II 2016

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SEMESTER I

Slot	Course No.	Subject	L-T-P	Hours	Credits
A	MA101	Calculus	3-1-0	4	4
B (1/2)	PH100	Engineering Physics	3-1-0	4	4
	CY100	Engineering Chemistry	3-1-0	4	4
C (1/2)	BE100	Engineering Mechanics	3-1-0	4	4
	BE110	Engineering Graphics	1-1-3	5	3
D	BE101-0X	Introduction to _____ Engineering	2-1-0	3	3
E	BE103	Introduction to Sustainable Engineering	2-0-1	3	3
F (1/4)	CE100	Basics of Civil Engineering	2-1-0	3	3
	ME100	Basics of Mechanical Engineering	2-1-0	3	3
	EE100	Basics of Electrical Engineering	2-1-0	3	3
	EC100	Basics of Electronics Engineering	2-1-0	3	3
S (1/2)	PH110	Engineering Physics Lab	0-0-2	2	1
	CY110	Engineering Chemistry Lab	0-0-2	2	1
T (2/4)	CE110/ME110/ EE110/EC110/ CS110/CH110	Basic Engineering Workshops (CS110 for CS and related branches and CH110 for CH and related branches only)	0-0-2 + 0-0-2	2 2	1 1
U		U100 Language lab/CAD Practice/Bridge courses/Micro Projects etc	0-0-(2/3)	(2/3)	
				30	**24/23**
V		V100 Entrepreneurship/TBI/NCC/NSS/ Physical Edn. etc	0-0-2	2	Activity points

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Notes:

1. Basic Engineering course of the parent branch included as Introduction to _____ Engineering. (3 credits)

List of Courses offered under BE 101-0X and Branches associated with each course

1. **BE101-01 Introduction to Civil Engineering**

   Civil Engineering

2. **BE101-02 Introduction to Mechanical Engineering Sciences**

   Aeronautical Engineering, Automobile Engineering, Food Technology, Industrial Engineering, Mechanical Engineering, Mechanical Engineering (Automobile), Mechanical Engineering (Production), Mechatronics, Metallurgy, Naval Architecture & Ship Building , Production Engineering.

3. **BE101-03 Introduction to Electrical Engineering**

   Electrical & Electronics Engineering.

4. **BE101-04 Introduction to Electronics Engineering**

   Applied Electronics & Instrumentation Engineering, Biomedical Engineering, Electronics & Biomedical Engineering, Electronics & Communication Engineering, Electronics & Instrumentation Engineering, Instrumentation & Control Engineering.

5. **BE101-05 Introduction to Computing and Problem Solving**

   Computer Science & Engineering, Information Technology.

6. **BE101-06 Introduction to Chemical Engineering**

   Biotechnology/ Biotechnology & Biochemical Engineering, Chemical Engineering,

2. Institutions can recommend **one of four** other Basic Engineering courses offered during this semester for every branch. However, the basic course selected should exclude the one corresponding to their branch of specialization. eg. Student who took Introduction to Civil Engineering should not take Basics of Civil Engineering; student who took Introduction to Electrical Engineering should not take Basics of Electrical Engineering

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SEMESTER II

Slot	Course No.	Subject	L-T-P	Hours	Credits
A	MA102	Differential Equations	3-1-0	4	4
B (1/2)	PH100	Engineering Physics	3-1-0	4	4
	CY100	Engineering Chemistry	3-1-0	4	4
C (1/2)	BE100	Engineering Mechanics	3-1-0	4	4
	BE110	Engineering Graphics	1-1-3	5	3
D	BE102	Design & Engineering	2-0-2	4	3
E, F (2/4)	CE 100	Basics of Civil Engineering	2-1-0	3	3
	ME 100	Basics of Mechanical Engineering	2-1-0	3	3
	EE 100	Basics of Electrical Engineering	2-1-0	3	3
	EC 100	Basics of Electronics Engineering	2-1-0	3	3
	CS 100	Computer Programming (Only for CSE & IT branches)	2-1-0	3	3
S (1/2)	PH110	Engineering Physics Lab	0-0-2	2	1
	CY110	Engineering Chemistry Lab	0-0-2	2	1
T (2/4)	CE110/ME110/ EE110/EC110	Basic Engineering Workshops	0-0-2	2	1
	CS 120	Computer Programming Lab (only for CSE & IT Branches)	+ 0-0-2	2	1
U		U100 Language lab / CAD Practice/ Bridge courses/ Micro Projects etc	0-0-(1/2)	(1/2)	
				30	24/23
V		V100 Entrepreneurship /TBI/NCC/NSS/ Physical Edn. etc	0-0-2	2	Activity points

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3. The six basic engineering workshops will be connected with the Introductory or Basics of Engineering courses offered. The students should attend **two workshops in Semester 1 and two in Semester 2.**

For example, students opting *Introduction to Civil Engineering* or Basics of Civil Engineering should attend the *Civil Engineering Workshop*, students opting *Introduction to Mechanical Engineering* or Basics of Mechanical Engineering should attend the *Mechanical Engineering Workshop*, students opting *Introduction to Chemical Engineering* should attend the *Chemical Engineering Workshop* and students opting *Introduction to Computing and Problem Solving* should attend the *Computer Science Workshop* etc. In addition, the students should attend one more workshop course in Semester 1, corresponding to the other Basic Engineering course they had been assigned by the institution. The workshop courses corresponding to both introductory and basic courses are same. However, the institutions may allot exercises or experiments listed in the syllabus based on the contents of corresponding theory course.

4. Engineering Physics and Engineering Chemistry shall be offered in both semesters. Institutions can advise students belonging to about 50% of the number of branches in the institution to opt for Engineering Physics in S1 and Engineering Chemistry in S2 and vice versa. Students opting for Engineering Physics in S1 should attend Engineering Physics Lab in S1 and students opting for Engineering Chemistry in S1 should opt for Engineering Chemistry Lab in S1.

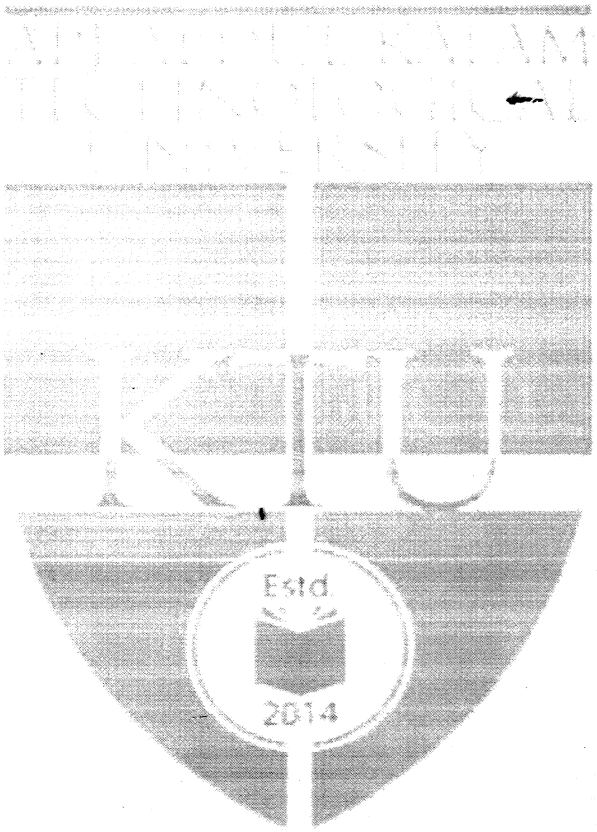
5. Engineering Mechanics and Engineering Graphics shall be offered in both semesters. Institutions can advise students belonging to about 50% of number of branches in the institution to opt for Engineering Mechanics in Semester 1 and Engineering Graphics in Semester 2 and vice versa.

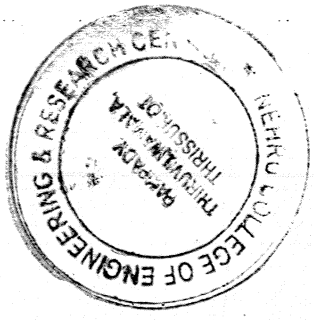
6. It may be noted that for items 4 and 5 above, all students belonging to a particular branch of study must be assigned the same course during one semester. For example, all students belonging to Electrical and Electronics Engineering in an institution may be assigned Engineering Physics and Engineering Physics lab, while all students in Electronics and Communication Engineering branch may be assigned Engineering Chemistry and Chemistry lab. Likewise, all students in Civil Engineering branch may be assigned Engineering Graphics, while all students in Mechanical Engineering branch may be allotted the Engineering Mechanics in Semester 1 and vice versa in Semester 2.

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7. For **Course U**, the Institutions should conduct **diagnostic tests** to identify the training requirements of each student and advise them to attend the suitable programme. The students who excel in all diagnostic tests can be assigned **Micro projects** under the guidance of faculty members. The classes for which BE110 Engineering Graphics is offered under slot C may be divided into two batches and these batches shall attend CAD Practice lab & Language Lab in alternate weeks.

8. **Course V** is for earning activity points outside academic hours, the details are covered in rules and regulations of KTU.





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Note 1: Institutions can assign **two of four** of Basics of Engineering courses not already taken by the student in the previous semester and the corresponding Workshop courses in Semester 2. CS 100 Basics of Computer Programming & CS120 Computer Programming Lab are mandatory for Computer Science & Engineering and Information Technology branches. Other branches are not allowed to opt these courses.

Note 2: **For Course U**, the classes for which BE110 Engineering Graphics is offered under slot C may be divided into two batches and these batches shall attend CAD Practice lab & Language Lab in alternate weeks.

Note: The Curriculum for Semesters I and II 2015 is slightly modified. The modifications are highlighted in red colour. The modified curriculum will not affect failed students of 2015 batch

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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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Rules to carry out the purpose of the Ordinance
Addendum

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

a. Eligibility for admission to the B.Tech., programme, admission policy and procedure 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.

b. Subject to Clause 1(a), Admission to B.Tech., shall be based on the guidelines given 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.

c. The Branches of study and number of students admitted are to be based on the approval by the All India Council for Technical Education and the Kerala Technological University.

d. Notwithstanding all that is stated above, the admission policy may be modified from 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.

4. 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.

6. **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.

a. 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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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		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

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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.

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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.

l) 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.

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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 re-test 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 design 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 faculty 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 student 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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they are offered subject to the limitations imposed by the ordinances and course timetable.

Action plan, for dealing with course arrears in theory courses at the end of each semester to continue with the programme, is given below. Faculty advisors shall monitor advice and support the students in this. Students should be informed about the minimum cumulative credits requirement to register for higher semester courses.

Eligibility Criteria for Registering for Higher Semester Courses

Semester	Allotted Credits	Cumulative Credits	Minimum cumulative credits required to register for courses in higher semesters
First	24	24	Not insisted
Second	23	47	35
Third	24	71	Not insisted
Fourth	23	94	80
Fifth	23	117	Not insisted
Sixth	23	140	126
Seventh	22	162	Not insisted
Eighth	18	180	

n) Course Committees and Class Committees

These committees are to be in place in each college affiliated to the University.

a) Course Committee

This is for common courses (electives are excluded) offered to students admitted for the B. Tech. programme irrespective of their branch of study. Each of such courses will have a course committee constituted by the Principal of the college.

The chairman of the course committee shall be a senior faculty member not offering the course.

Members:-

i) All teachers offering the course.

ii) Four student representatives nominated by the Principal.

b) Class Committee

Beginning from the third semester, all branches of study will have class committees for every semester constituted by the respective Heads of Departments.

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The chairman of the committee shall be a senior faculty member who does not offer any course during that semester.

Members:-

i) All faculty members teaching courses in that semester.

ii) Two student representatives nominated by the head of the Department.

The course committees and class committees shall meet at least thrice in a semester – the first at the beginning of the semester, the second and the third after the first and the second internal tests respectively. Both committees should monitor the conduct of the courses, adherence to the course plan and time schedule, completion of the syllabus, standards of internal tests, evaluation process and difficulties faced by the students and take suitable remedial actions at the appropriate time. At the end of the semester, the committee should meet without student representatives to review the conduct of the course and finalize the internal assessment marks and approve them.

o) Eligibility for writing the end semester examination and for grading

Students with 45% or more marks in internal assessment in a course shall only be permitted to write the end semester examination in that course. Those with less than 45% internal marks shall be awarded FE grade and have to register for the course again.

A student should have a minimum of 45% marks in the end semester examination to be eligible for grading in a course. Otherwise he/she will be considered to have failed in the course and an F grade will be awarded.

Internal marks given to the students who got 45% marks or more in the end semester examination shall be regulated in line with the end semester examination performance. Internal mark percentage shall not exceed 25% over the end semester mark %.

(For example if the end semester mark % is 45, then the maximum internal mark % is to be 45+25 = 70 %.)

In case the student writes the supplementary examination, the mark got in that will be taken into consideration for regulating the internal marks.

Those who have more than 45% marks in the end semester examination are awarded the grade based on both internal assessment and end semester examination marks. A student earns credits for a course if the grade is P or above.

p) Award of Grades

Grading is based on the % marks obtained by the student in a course, as given in 7q. The grade card will only give the grades against the courses the student has registered.

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Semester grade card will give the grade for each registered course, Semester Grade Point Average (SGPA) for the semester as well as Cumulative Grade Point Average (CGPA).

q) Grades and Grade Points

Grades and Grade Points as per UGC guidelines is to be followed by the University

Grades		Grade Point (GP)	% of Total Marks obtained in the course
O	(Outstanding)	10	90% and above
A^+	(Excellent)	9	85% and above but less than 90%
A	(Very Good)	8	80% and above but less than 85%
B^+	(Good)	7	70% and above but less than 80%
B	(Above Average)	6	60% and above but less than 70%
C	(Average)	5	50% and above but less than 60%
P	(Pass)	4	45% and above but less than 50%
F	(Fail)	0	Less than 45%
FE		0	Failed due to eligibility criteria [7-o]
I			Course Incomplete

SGPA and CGPA are calculated based on the above grading norms and are explained at the end of this document.

r) **Academic Auditing**

The University shall have a detailed academic auditing procedure in place comprising of an internal academic auditing cell within the colleges and an external academic auditing for each college. The internal academic auditing cell in each college shall oversee and monitor all the academic activities including all internal evaluations and examinations. This cell is to prepare academic audit statements for each semester at regular intervals. These reports are to be presented to the external academic auditor approved by the University, who will use it as a reference for his independent auditing and for the final report to the University.

Academic auditing shall cover:-

i) Course delivery covering syllabus, adherence to course plan, quality of question papers for internal examinations, internal evaluation, laboratory experiments, practical assignments, mini projects and conduct of practical classes and their evaluation.

ii) Co-curricular and Extra-curricular activities available for students, their organization and the mechanism of monitoring of activities points earned by the students.

iii) Academic functioning of the college encompassing students, faculty and college administration covering punctuality, attendance, discipline, academic

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environment, academic accountability, academic achievements and benchmarking.

s) Break of Study

A student may break study for a maximum duration of two semesters, preferably in one academic year, to initiate start-up ventures, product development etc. This is however permitted only on successfully completing the courses listed out in the first four semesters. Request for this with ample evidence to the seriousness of the venture should be forwarded to the college principal for approval. [RU-3]

Break of study on serious health reasons is also permitted with the approval of the college Principal. [RU-3]

All such cases of break of study are to be reported to the University. In both the cases, the maximum duration for completing the B. Tech. programme will still be twelve semesters.

t) Revaluation and Grade Improvement

There is no provision for revaluation of the end semester answer books or for improving the grade.

However, the student is permitted to check the answer books of the end semester examination after the results are declared. Any discrepancy in evaluation could be brought to the notice of the teacher concerned who will initiate appropriate action on this. The decision of the Controller of Examination shall be final on this.

u) Grade Cards

Students who have written the end semester examination will be given the grade cards for the registered courses, in every semester by the respective colleges. On earning the required credits for the degree, a consolidated grade sheet for the B. Tech programme will be given by the University.

v) B. Tech Degree

B.Tech. degree will not have any classifications like distinction or first class.

w) B. Tech. (Honours)

Accredited departments in institutions, having at least two post graduate programmes, may offer B. Tech. (Honours). It should be noted that students with a CGPA above 8 at the end of the fourth semester and having no credit arrears only are eligible for this option. As only selected institutions may have this provision, students cannot demand this or move later to an institute where this is available. Students have to earn 12 additional credits to get B. Tech (Honours). Furthermore their CGPA at the

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end of the programme should be 8 or higher. Those who opted for B. Tech (Honours) but unable to earn the required additional credits in 8 semesters or whose final CGPA is less than 8 shall automatically fall back to the B. Tech. programme. However, additional course credits and the grades thus far earned by them will be shown in the grade card but not included for the CGPA.

x) Academic Discipline and Malpractices in Examinations

Every student is required to observe discipline and decorous behaviour.

Any act of indiscipline, misbehaviour and unfair practice in examinations will be referred to the **Disciplinary Action Committee (DAC)**. Malpractices in examinations shall be viewed seriously and any such incident observed or reported by a faculty member or an invigilator associated with the examinations shall be reported to the Principal who in turn shall refer it to DAC. On the basis of the report and evidence available or gathered, DAC shall immediately initiate an enquiry giving the concerned student a chance to explain his/her case. Based on this the committee shall recommend the course of action in line with the guidelines formulated for this by the Controller of Examination of the University and forward it to the Principal for action.

Actions are to be based on the severity of the offence and are to be dealt with, on a course basis. Guidelines on this shall be given by the Controller of Examination which is to be followed by the Disciplinary Action Committee of the college.

The student may appeal to the Grievances and Appeals Committee for a relook on the matter. Based on the committee's report, the Principal shall take a final decision on the matter.

DAC shall be headed by a department head and shall have three other faculty members drawn from different departments as members. In case of malpractices in end semester examinations, the report given by the college DAC and the action taken by the Principal shall be intimated to the Controller of Examination of the University

y) Student's Welfare Committee

Every college shall have a Student's Welfare Committee, constituted by the Principal of the college. This committee shall have at least three faculty members as members and the chairman shall be a senior faculty member in the rank of a Professor. This committee is entrusted with the task of looking after the welfare of the students by taking appropriate steps with the concurrence of the principal.

z) Grievances and Appeals Committee

Each college should have a Grievances Redress Committee constituted by the Principal to address the grievances of the students and to consider their appeals on any decisions made by the college. This committee consisting of at least three faculty

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members and chaired by a senior professor shall look into student's grievances and appeals and give its recommendations to the Principal for action.

8) Amendment to Ordinance/ Regulations/Rules

Notwithstanding all that has been stated above, the University has the right to modify any of the above Ordinance/Rules/regulations from time to time.

RULES:

RU-1 Course Code and Course Number

Each course is identified by a course code and a three digit number. The two letter code refers to the department offering the course or the knowledge segment of the course. The knowledge segment code is used when the course is to be offered by different departments either individually or together but having the same syllabus and course plan.

Course Number: MA 101 - This refers to a course in Mathematics with the course number 101.
Course Number: BE 102 - This refers to a course in Basic Engineering.

Course Number is a three digit number and the first digit refers to the Academic year in which the course is normally offered, i.e. 1, 2, 3, or 4 for the B. Tech. Programme of four year duration. Of the other two digits, the last digit identifies whether the course is offered normally in the odd (odd number), even (even number) or in both the semesters (zero). The middle number could be any digit.

MA 101 is a course in Mathematics offered in the first semester.
EE 344 is a course in Electrical Engineering offered in the sixth semester.
PH 110 is a course in Physics offered both the first and second semesters.
BE 102 is a course in Basic Engineering offered by one or many departments.

These course numbers are to be given in the curriculum and syllabi.

RU-2 Attendance

Attendance is marked for each course. While 75% attendance is mandatory for writing the end semester examination in that course, students are expected to have 100% attendance. However under unavoidable circumstances students are permitted to take leave. Leave is normally sanctioned for any approved activity taken up by students outside the college covering sports and other extracurricular activities. Leave is also permitted on medical grounds or on personal exigencies. Leave of absence for all these is limited to 25% of the academic contact hours for the course.

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In case of long illness or major personal tragedies/contingencies the college Principal can relax the minimum attendance requirement to 60%, to write the end semester examination. 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 Academic Auditor. However this concession is applicable only to any two semesters during the entire programme. In case of prolonged illness, break of study is permitted as per RU-3.

RU-3 Break of Study

A student is permitted to have a break of study.

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 new product.
iii) In case of any personal reasons that need a break in study.

For break of study due to illness, student should 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.

Students who want to initiate a start-up venture or a product development, have to 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. In the semester system followed by the University, break of study for an academic year is preferred over a semester break.

Students who want 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.

RU-4 Leave of Absence

Students who want to take leave under RU2 have to submit a leave letter to the teacher conducting the course. This letter is to be forwarded to the Head of the Department with recommendation of the teacher indicating the total leave of absence the student has so far availed. Leave is to be sanctioned by the Head of the Department. For medical leave over three days, medical certificate indicating the need for leave is required. After any medical leave exceeding five

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instruction days, on rejoining, the student has to produce the fitness certificate given by the doctor.

RU-5 Comprehensive Examination

This examination consists of two parts. Part one a written test and the other an oral one.

The written examination shall be objective type of 1 hour duration and shall have 50 marks and is to be conducted by the concerned department. Chairman of the oral examination board shall be a senior faculty in the department and the members include two other faculty members of the department and an external expert from another academic institute or an industry. Oral examination shall carry 50 marks. Comprehensive examination may be conducted any time during the 6th semester with sufficient notice given to the students.

RU-6 Seminar

Students have to prepare a detailed report on the topic of the seminar and submit it to the teacher concerned. The seminar is to be of 20 minutes duration with another 5 minutes given for questions and answers. All students in the class have to attend the seminar without fail. Evaluation will be based on the report, seminar presentation as well as on the ability of the student to answer the questions put forward. Faculty member in charge of the seminar and another faculty member in the department nominated by the Head of the Department are the evaluators for the seminar. Distribution of marks for the seminar is as follows.

Marks for the report: 30%
Presentation: 40%
Ability to answer questions on the topic: 30%

RU-7 Ragging

Ragging of any nature is a criminal and non-bailable offence. Involvement in ragging shall lead to stringent punishment, including imprisonment as per the law of the land. A student, whose involvement in ragging is established, shall be summarily dismissed from the college. Each student of the Institute, along with his/her parent, is required to give an undertaking in this regard and the same is to be submitted at the time of registration.

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Addendum:-

1. Calculation of SGPA/CGPA

Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) are calculated as follows.

SGPA = $\Sigma(C_i \times GP_i)/\Sigma C_i$ 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 registered by the student in the semester. Here the failed courses are also accounted.

CGPA = $\Sigma(C_i \times GP_i)/\Sigma C_i$ 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 registered by the student during all the semesters for which the CGPA is needed. Here the failed courses are also accounted. CGPA of all courses passed may also be given.

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.

2. Student Activity Points

Activities that a student can engage in and the maximum quantum of points that can be earned from them are listed below.

i) National Level Activities

Code	Name of activity	Max. Activity Points	Minimum Duration
NA1	N S O	70	Two Semesters
NA2	N C C	70	Two Semesters
NA3	N S S	70	Two Semesters

ii) College Level Activities

CA1	Active Member/Office bearer of Professional Societies (Student Chapters)	30/40	Four Semesters
CA2	Elected Office bearer of Student forums	30	Two semesters
CA3	Member/Captain- College Athletic/ Games teams	20/30	Two Semesters
CA3	Executive Member of Student Clubs	20	Two Semesters
CA4	Volunteer for important College functions	20	Two Semesters
CA5	Committee member/ Organizer of Tech Fest/Cultural Fest/ Conference	20/30	Two Semesters

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CA6.	Placed within top three in Paper presentation/debate/ cultural competitions etc	30
CA7	Placed within top three in State level Sports/Games/	30

Additional 20 points are given for CA3/CA7 if the achievement is at the national level.

iii) Entrepreneurship

EA1	Any Creative Project execution	40
EA2	Awards for Projects	60
EA3	Initiation of Start-ups	60
EA4	Attracted Venture Capital	80
EA5	Filed a Patent	80
EA6	Completed Prototype Development	80

iv) Self Initiatives

SA1	Attend a National Conference	20
SA2	Attend an Int. National Conference	30
SA3	Published/ got an Award for a Technical paper.	30/40
SA4	Organiser of student level Technical Conf/Competition	30
SA5	Foreign language skills	50
SA6	Online courses taken& completed	50

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26-6-2015

Registrar

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File Ref.No.67049/GA - IV - E1/2013/CU

UNIVERSITY OF CALICUT

Abstract

Faculty of Engineering - Regulations of B.Tech Degree course (Regular) -Revised - With effect from 2014 admissions - approved - implemented - orders issued.

G & A - IV - E

U.O.No. 3139/2014/CU Dated, Calicut University.P.O, 27.03.2014

Read:-1.Minutes of the combined meeting of the Chairmen of the 9 Board of Studies under the Faculty of Engineering and the Board of Studies in Engineering (UG) dt. 27.08.2013.

2.Minutes of the meeting of the Board of Studies in Engineering (UG) held on 07.01.2014 (item No. 1).

3.Minutes of the meeting of the Faculty of Engineering held on 20.01.2014 (item No.1).

4.Minutes of the meeting of the Academic Council held on 20.03.2014 (item No. II G)

ORDER

The Combined meeting of the Chairmen of the nine Board of Studies under the Faculty of Engineering and the members of the Board of Studies in Engineering (UG) at its meeting held on 27.08.2013 and the Board of Studies in Engineering (UG) at its meeting held on 07.01.2014, after detailed discussions pertaining to the revision and finalization of B.Tech course regulations to be implemented w.e.f 2014 admissions, and after incorporating the changes in conditions of admission as per Government order, changes in Registration for each semester as per court order, other changes in assessment of students etc in the new Course regulations, unanimously approved B.Tech Course Regulations 2014 (Regular) and recommended for the implementation of the same with effect from 2014 admission onwards, vide paper read 1 & 2 above.

Vide paper read 3 above, the Faculty of Engineering at its meeting held on 20.01.2014, vide item No.1 approved the minutes of the Combined meeting of the Chairmen of the nine Board of Studies under the Faculty of Engineering and the members of the Board of Studies in Engineering (UG) held on 27.08.2013 and the minutes of the Board of Studies in Engineering (UG) held on 07.01.2014 and entrusted the Dean, Faculty of Engineering to make some minor corrections in the course regulations of B.Tech course prepared by the Board. The Dean,Faculty of Engineering had

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submitted the revised B.Tech course regulations after incorporating the minor corrections in the course regulations as resolved by the Faculty of Engineering held on 20.01.2014.

The Academic Council at its meeting held on 20.03.2014, vide per paper read 4 above, approved the minutes of the Board of Studies in Engineering (UG) held on 27.08.2013 & 07.01.2014 and the minutes of the Faculty of Engineering held on 20.01.2014, vide item No. II G.

Sanction has therefore been acorded for implementing the revised Regulations of the B.Tech Degree course (Regular) -With effect from 2014 admission onwards. (The B.Tech course Regulations are appended).

Orders are issued accordingly.

Muhammed S

Deputy Registrar

To

The Principals of all affiliated Engineering colleges.

(B.Tech Regulations will be available in the University Website.)

Copy To:

PSto VC/PA to PVC/PA to Regr/PA to CE/EX Sn/EGI Sn/DR-B.Tech Sn/Dean, F/Engg/Chairman, BOS in Engg (UG)/System Administrator(With a request to upload the Syllabus in the University Website)

Forwarded / By Order

Section Officer

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M Tech Degree course Regulations w.e.f 2010 Admissions

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Degree of Master of Technology(M Tech)Regulations w.e.f 2010 Admission onwards.

1. General

Postgraduate Degree in Engineering leading to the award of Master Degree in appropriate branches shall extend over a period of 24 months consisting of 4 semesters. Duration is counted from the day of starting of classes of first semester. Credit system is adopted for the course. Grade point average is calculated on the basis of all courses taken by the student.

2. Eligibility for Admission

a. The candidate should have passed the B.Tech. Course or equivalent from an institution approved by Calicut University and All India Council for Technical Education.

b. The candidate shall have a B Tech degree in respective branch of Engineering as shown in table of clause 3 awarded by University of Calicut or Equivalent there to as approved by University of Calicut.

c. The candidate should have a minimum 55 % aggregate mark in the Engineering Degree Examination. For SC/ST candidates a pass in the Engineering Degree course is sufficient.

d. Candidates who have passed AMIE/AMIETE examination and satisfying the following conditions are also eligible for admission to M. Tech courses in Institutions under University of Calicut .

(i) They must have a valid GATE score.

(ii) A minimum mark of 55% for section B in AMIE/AMIETE examinations.

(iii) Minimum 3 years of professional experience in the field of specialization after acquiring the qualifying Degree.

e. Candidates who have appeared for the Final Examinations may also apply provided the results are made available at the time of admission.

f. Admission shall be normally restricted to those with valid GATE score on merit basis. However, this stipulation is relaxed in case of sponsored candidates.

g. In case seats remain vacant due to lack of candidates with valid GATE score, candidates from KERALA state will be considered on the basis of merit in qualifying examination.

h. Seats under the sponsored category can be filled separately in accordance with criteria prepared by selection committee as given in clause 5b.Candidates having three years experience in industries ,Govt. Departments or AICTE approved Engineering Colleges are

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eligible under sponsored category. They should produce the necessary certificate such as original sponsorship certificate and original experience certificate. Selection of these candidates is based on marks in the qualifying examination and performance in the interview conducted by the selection committee in the ratio 80 : 20.

3. Equivalency

The Eligible Degree for admission to each programme is listed in the table below.

Name of M Tech Programme	Eligible Degree
Environmental Engineering	Degree in Civil/Mechanical/Chemical Engg
Production Engineering	Degree in Mechanical/Production/Industrial Engg./Automobile Engg.
Power Systems	Degree in Electrical and Electronics Engg(EEE)
Process Control	Degree in Chemical Engineering/Instrumentation and Control Engg./ Applied Electronics and Instrumetation / Electronics and Instrumetation
Thermal Engg.	Degree in Mechanical Engg/Automobile Engg
Embedded Systems	Electronics and Communication Engg/Electrical and Electronics Engg/ Applied Electronics and Instrumentation / Instrumentation and Control/Electronics and instrumentation/Electronics/Computer Science/ Computer Science and Engg./ Information Technology/ Biomedical Engg./Electronics and Biomedical Engg./Biomedical Instrumentation
Machine Design	Mechanical Engg.
Computer Science	Computer Science and Engg./ Information Technology

4. **Reservation of seats

a. 5% of seats are reserved for candidates belonging to to SEBC. Only candidates having annual income less than ...4... lakhs(limit subject to modification by Government orders from time to time) alone will be eligible for reservation under this category.

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b. 15% of seats are reserved for SC/ST candidates.

c. The seats reserved for each category will be distributed among the eligible communities by observing the pattern of general reservation rules of the state.

d. The additional seats available in each specialty are reserved exclusively for SC/ST candidates as per letter no 10/83/T2 dated 9/3/1983 from the Department of Education, Ministry of Education and Culture. These seats will not be filled from other category of candidates even if SC/ST candidates are not available.

** Subject to changes as per Government orders from time to time.

5. Selection of candidates.

a. Selection of candidates for M Tech programme to Govt. /Aided Engineering Colleges under DTE will be supervised by selection committee constituted by Government.

b. (i) Selection to affiliated self financing colleges will be supervised by a selection committee consisting of Director of Technical Education or his nominee, a nominee from the University of Calicut, Chairman of Board of studies in Engg.(PG)College Principal and Head of the Department of the respective branch of the Institution concerned.

(ii) In self financing colleges 50 % of the total seats shall be under merit quota and 50 % shall be under management quota. The admission to seats under merit quota shall be controlled by the Commissioner of Entrance Examinations,Kerala/Selection Committee after observing all reservation rules issued by Government from time to time.

c. Selection will be made Institution wise based on GATE score alone. In case of tie weightage will be given to marks of qualifying examination.

d. A rank list will be prepared based on the GATE score in branch of study and will be published in institutions as well as in website of the coordinating Institute at least 10 days before admission.

e. Individual memo will be sent to candidates for counseling. Counseling and admission will be completed on the same date.

f. If a candidate fails to report for counseling on the specified date his/her claim for selection will not be considered further.

g. The additional seats reserved for SC/ST candidates will be filled first from the rank list.

h. If sufficient GATE qualified candidates are not available the selection will be made from Keralite candidates based on the aggregate percentage of marks in their qualifying

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examinations and such candidates have to produce a Nativity certificate. A grace mark of 5% will be awarded to candidates qualified from Universities in Kerala. Candidates qualified from University of Calicut will be awarded 15% of grace mark instead of 5 %.

i. The sponsored seats will be filled up by admitting general category candidates in the absence of sponsored candidates. However candidates admitted against these vacancies will not be eligible for GATE scholarship.

j. Transfer certificate issued from the Institution last attended shall be produced at the time of counseling or admission.

k. The selection of candidates will be provisional and subject to verification of original documents by the Principal of the concerned Institution at the time of admission.

l. The regular classes of First year M Tech shall commence from the second week of September. A grace period of 3 months will be given to candidates who have secured admission through GATE to produce their original mark list and degree certificate. Otherwise their admission will be cancelled.

m. i) There should be sufficient and qualified faculty members in the self financing colleges as recommended by the AICTE.

ii) There should be sufficient infrastructure in self financing colleges as recommended by the AICTE.

University shall appoint a committee to ensure infrastructure and faculty position in self financing colleges.

6. Structure of the M Tech Programme

a. The programme of instruction for each stream will consist of

(i) Core courses (Compulsory)

(ii) Elective courses

(iii) Laboratory/Seminar/Mini project and

(iv) Masters research project and dissertation

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b. The complete programme will be of 4 semester duration with at least 75 working days in each semester. Academic programme in each semester will consist of course work and /or project work as specified for each specialization. The total contact hours is 30 hours per week including departmental assistance.

c. Every stream of specialization in the programme will have a curriculum and syllabi for the courses. The curriculum shall be so drawn up that the minimum number of credits for successful completion of the M Tech programme of any stream is 75.

d. Credits will be assigned to the courses by following general pattern as given in table 1.

e. Table 1:Distribution of credits for various course work

Course work	Weekly hours	Creditsc allotted
Theory Subjects	4	4
Seminar	2	2
Laboratory	3	2
Mini Project	-	2
Industrial Training/Interaction	-	1
Masters Research Project-Phase I	-	6
Masters Research Project and Dissertation-Phase II	-	12

f. A student will have to register in all the **core course** listed in the curriculum of his/her selected area of specialization and successfully complete all of them.

g. **Electives** will have to be taken from the courses offered by the department in that particular semester from among the list of approved courses.

h. The medium of instruction, examination, seminar and project report will be in English.

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7. Distribution of credits among 4 semesters

Semester	Course work content	Total credits allotted	Total credits allotted semester wise
1	5 Theory subjects	5X4=20	24
	seminar	1X2=2	
	Laboratory	1X2=2	
2	5 Theory subjects	5X4=20	24
	seminar	1X2=2	
	Laboratory/Mini Project	1X2=2	
3	2 Theory subjects	2X4=8	15
	Industrial Training	1X1=1	
	Masters Research Project Phase I	1X6=6	
4	Masters Research Project Phase II &Dissertation	1X12=12	12
	Total credits in all 4 semesters		75

8. Details of various committees and responsibilities.

The entire academic matters relating to P G courses in the Institute / College will be managed by Dean P G studies. In colleges where Dean of PG studies is not available academic matters relating to P G courses will be managed by Principal. The Principal may appoint a Chief-Coordinator from among the Course Coordinators (refer 8a) to assist him/her in academic matters.

Academic Committee.

The Academic committee for the PG courses of the concerned Institution will comprise of

(i) Dean of P G studies / Principal

(ii) Heads of all Departments of P G courses

(iii) Course coordinators

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a) Course Coordinator

Each Department will have a Professor/Asst. Professor other than HOD as Course Coordinator for each M Tech Programme. The responsibilities of the Course Coordinator are

1. To help the students in planning and getting general advice on academic programme.
2. To keep a record of the academic activities of students registered for the particular M Tech programme

b) Department Committee

Each Department of every Institution offering P G Course will have a Department committee to look after P G course. This committee will consists of

1. Head of the Department
2. Course Coordinators

c)Evaluation Committee

Each Dept. of every Institution offering P G courses will constitute an Evaluation committee to evaluate seminars, Mini-Projects, Pre submission seminar for Masters research project etc. consisting of at least 3 faculty members. The internal guide and another expert in the area of specialization shall be the 2 essential members of this committee.

d)Class Committee

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For semesters I, 2 and 3 a class committee for each programme will be constituted by HOD as follows.

Chairman: Course coordinator of the concerned M Tech Programme

Members: 1. All teachers handling classes for the particular semester.

2. One student member from the class.

The term of class committee shall be one semester.

The basic responsibility of class committee is

1. To review periodically the progress of the classes to discuss problems concerning curriculum and syllabi and the conduct of the classes.
2. The type of assessment for the course will be decided by the teacher in consultation with class committee and will be announced to the students at the beginning of the semester.
3. Each class committee will communicate its recommendations to the HOD and the Dean of P G studies/ Principal.
4. The class committee is required to meet at least twice in a semester.

9. Course work Content

Semester 1

The student has to credit 5 theory subjects – 4 core subjects and one Elective. One core subject will be from area of Mathematics. In addition the student has to take up one seminar and one Lab.

Semester 2

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The student has to credit 5 theory subjects, one seminar, and one lab/Mini project. Among 5 Theory subjects, 3 subjects are offered as core, and two as Electives.

Semester 3

The student has to credit 2 theory subjects from the two groups of Electives listed. The student has to undergo an industrial training of minimum two weeks duration during the semester break after semester 2 and complete that within 15 calendar days from the start of semester 3.

The student is required to undertake the Masters Research Project Phase I during 3rd semester and the same is continued in the 4th semester (Phase II). It comprises of Preliminary Thesis work, two reviews of the work and the submission of Preliminary report. First review would highlight the topic, objectives, methodology and expected results. The first review shall be conducted in first half of this semester. Second review comprises of the presentation of the work completed, preliminary report and scope of work which is to be completed in the 4th semester.

Weightage for the credits for Masters research project –phase I

Internal evaluation of the Project work by the Guide: 50%

Internal evaluation of the Project work by the Evaluation committee (ESE): 50%

Semester 4

In 4th semester there will be only Project work. This is the continuation of the work done in 3rd semester. There is a review in the middle of fourth semester to evaluate the progress of the project work. Towards the end of the semester there would be a pre submission presentation to assess the quality and quantum of the work by the Evaluation committee. This would be the prequalifying exercise for the students for getting approval by the Department committee for the submission of Thesis. At least one Technical paper is to be prepared for possible publication in journal or conferences. The Technical paper is to be submitted along with the Thesis . The final evaluation of

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the Project will be external evaluation. The credits allotted may be proportionally distributed between external and internal evaluation as follows.

Internal evaluation of the Project work by the Guide: 25%

Internal evaluation of the Project work by the Evaluation Committee: 25%

Final evaluation of the Dissertation by the External Examiner: 25%

Project viva voce by the External and Internal Examiners: 25%

10. **Facility for students to do project work outside the Parent Institution:**

As far as possible the students shall be encouraged to do their project work in the parent institute itself. However, if found essential, they may be permitted to continue their project outside the parent institute, ***with the approval of the Department committee*** . For students who are availing this facility, the following conditions are to be observed.

i) The students have to get the prior approval from the Department committee for availing this facility as well as choice of the institution/industry/R&D organization with which the students are associated for continuing their project work. They have to get this approval in the 3rd semester itself.

ii) If they are doing their project work in an educational institution then the institution is to be preferably an institution of national repute like IITs, IISc etc.

iii) Students availing this facility should continue as regular student of the parent institution itself.

iv) They should have an external as well as an internal guide. The internal guide should belong to the parent institution and external guide should be from the institution/industry/R&D organization with which the student is associated for doing the project work.

v) Student has to furnish a certificate from the external guide stating the willingness to supervise the Thesis work with the institution/industry/R&D organization with which the student is

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associated for doing his/her project work and has to submit the same for the approval of the Department committee at the beginning of the third semester.

vi) The student has to furnish his/her monthly progress as well as attendance report signed by the external guide.

vii) The external guide and internal guide are to be preferably present during all stages of evaluation of the project work. In case the external guide is not present, the internal guide can alone take the responsibility of conducting the evaluation.

11. Registration and Enrollment.

α. For the first semester every student has to enroll and register for the courses he/she intends to undergo on a specified date notified to the student. The concerned Progamme coordinator/Faculty Advisor will guide the students in registration process.

β. For the subsequent semesters registration for the courses will be done by Course coordinator during a specified week before the end semester examination of the previous semester. The registration card will give details of the core and elective courses, the project and seminar to be taken in a semester with the number of credits. The student will consult his/her Course coordinator for choice of courses. The registration card is filled in triplicate and signed by the student and Course coordinator .

χ. A student has to pay the semester fees before the day of registration or as per the schedule announced by the Dean/ Principal.

δ. From the second semester onwards ***all students have to enroll on a specified day at the beginning of a semester.*** A student will become eligible for enrollment only if he/she satisfies requirements in section 11.g and in addition he/she has cleared all the dues to institute, hostel and the library up to the end of the previous semester and he/she is not debarred from enrollment .

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ε. ***M Tech gate scholarship to eligible students will be paid for a maximum period of 24 months only as per existing AICTE rules/Govt. of India rules.***

ϕ. In extra ordinary circumstances like medical grounds a student may be permitted to withdraw from a semester completely. ***A student will be permitted to withdraw from the programme only for a maximum continuous period of two semesters.***

γ. **Minimum requirements to continue the Programme.**

i) A student should have a minimum 80 % of overall attendance in each semester to register for the end semester examination.

ii) A student should have registered for the end semester examination at the end of every semester.

iii) A student should have earned not less than 26 credits at the end of second semester and 36 at the end of third semester.

iv) A student will *be promoted to **second** semester only if he/she satisfies conditions in clauses 11 g i and 11g ii*

v) *A student will be promoted to the **next** higher semesters only if he/she satisfies conditions in clauses 11 g i , 11g ii and 11giii.*

vi) *It shall open to the Vice Chancellor to grant condonation of shortage of attendance on the recommendation of the Head of the Institute in accordance with the following norms.*

- *The shortage shall not be more than 10%*
- *The shortage shall not be condoned more than once during the entire course*

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- *Candidate who is not eligible for condonation of shortage of attendance shall repeat the semester.*

η. **Maximum duration of the programme**

A student is expected to complete the M Tech programme in **4 semesters**. In case of students who do not complete their Project work in the 4th semester, they will be permitted to complete the project work and submit the report in the subsequent semester. The date of completion of the project work and the date of viva voce examination will be indicated in the grade card for the subsequent semester. The student shall complete the M Tech Degree within five academic years from the date of admission to the M Tech Programme.

ι. **Discipline.**

Every student is required to observe disciplined and decorous behavior both inside and outside the campus and should not indulge in any activity which will tend to bring down the prestige of the institute. Any act of indiscipline reported to Dean of P G studies/Principal will be referred to the College council. The College council will investigate the charges and will decide suitable punishment if it finds the charges substantiated.

φ. **Attendance.**

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i) Every teaching staff member handling a class will take attendance up to the last instruction day in the semester. Overall attendance will be calculated and displayed within a week after the last working day.

κ. Leave Rules.

i) All M Tech students should apply to the HOD for leave stating the reasons whenever they are not in a position to attend classes/project work. They will not be eligible for GATE scholarship for the period of absence if it is unauthorized leave even if they have not fully utilized the eligible leave.

ii) **Students are eligible for leave of 30 days in a year** which will be regularized 15 days per semester with a provision of carryover from first to second and third to fourth semesters. (i.e. unutilized leave from first year cannot be carried over to second year). The intervening holidays will be treated as part of leave with provision of suffixing and prefixing holidays.

12. Evaluation Process:

In the first semester, second semester and third semester, all the subjects to be credited are evaluated through continuous assessment procedure and end semester examination. **The end semester examination for all the semesters , except the first semester would be done at the respective colleges as outlined below.** The end semester examination for the first semester will be conducted by the University.

a) Assessment Procedure.

For Theory Subjects: Internal continuous assessments will be made during the semester. The internal continuous assessment may be in the form of periodical tests, assignments, seminars or a combination of all, whichever suits best. The assessment details as decided at the class

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committee will be announced to the students right at the beginning of the semester by the teacher. There will be a minimum of two tests per subject.

b) The seminars, project, Industrial training will be evaluated by the Evaluation committee. For the project and Industrial training, the students are required to submit a report of the work done/training undergone and present the contents of the report before the committee which will be evaluated. The laboratory work will be evaluated by the staff member(s) concerned.

c) In the third semester, Masters Research Project Phase I will be evaluated by the Evaluation committee. The internal evaluation of the project in the IV semester would be done by the Evaluation committee. Final evaluation of the project and dissertation would be conducted by the Guide and an External Examiner appointed by the University of Calicut.

d) **End Semester Examination**

There will be one End semester examination of 3 hours duration in each lecture based subject. For the End semester examination the student has to register in the university by remitting the examination fees.

e) **Project Evaluation**

Project Evaluation will be taken up only after the student completes all the core, elective as well as other course requirements satisfactorily.

f) **Weightage**

The following will be the weightages for the different subjects.

a. **Theory Subjects**

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Internal continuous assessment : 50%

End Semester Examination : 50%

b. Laboratory based Subjects

internal continuous assessment : 100%

g) Normalisation

The marks obtained in the internal continuous assessment of theory subjects and laboratory based subjects and end semester examinations of 2nd and 3rd semesters shall be normalised as follows .

(i) If the class average obtained in Internal Continuous Assessment of a theory subject is greater than 80 % it shall be normalised to 80 % .

(ii) If the class average obtained in Internal Continuous Assessment of a lab based subject is greater than 75 % it shall be normalised to 75 % .

(iii) If the class average obtained in End Semester Examination of a theory subject of 2nd/ 3 rd semester is greater than 70 % it shall be normalised to 70 % .

The existing normalization procedure shall be applied.

h) Make-up Examination

The following categories are eligible for make up examination.

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(i) **Students who have missed** internal continuous assessments on valid reasons should apply to the concerned teacher the reasons for the absence and teacher shall consider these requests suitably.

(ii) **Except for the first semester,** those students who have failed in the end semester examinations or missed the end semester examination on valid reasons, should make an application to the Course Coordinator within 10 days from the date of missed examination or within 5 days from the publication of results(whichever is earlier). Permission to sit for a makeup examination in the subject(s) in the case of students who missed the examination is given under exceptional circumstances like hospitalization or accident to the student. However these students will not be eligible for **S grade .**

A student who misses this makeup examination will not be given another makeup examination.

i) Minimum for a Pass

A candidate who secures not less than 40 % marks in a subject at the end semester examination and not less than 50 % of the total marks assigned to the subject , shall be declared to have passed the examination in that subject.

j)A student is awarded a letter grade in each course he/she has registered for, indicating his/her overall performance in that course. There are eight letter grades **S, A, B, C, D and U.** The correspondence between range of percentage of marks, grades and points (on a 10-point scale) is given below.

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Grading

Range of percentage of marks	Grade	Points
90 - 100	S	10
80 - 89	A	9
70 - 79	B	8
60 - 69	C	7
50 -59	D	6
Below 50	U	0

A student is deemed to have completed a subject successfully and earned the credit if he/she secures a letter grade other than U.

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A letter grade U in any subject implies failure in that subject. A subject successfully completed cannot be repeated.

k) Methods of awarding grades.

i) For the first semester, University will award grades based on percentage of marks obtained in each subject as per clause 12j. The percentage of marks is calculated considering internal continuous assessment and end semester examination marks put together.

ii) For second semester onwards grades will be awarded as per the following procedure:

A final meeting of the academic committee will be convened within **7 days after the last day of the end semester examination. The letter grades to be awarded** to the students for different subject will be finalized at this meeting. Two copies of the result sheets for each subject containing grade and two copies with absolute marks and the final grade should be submitted by the teacher to the concerned Academic Committee Chairman.

After the finalization of the grades at the Academic Committee meeting, one copy with the absolute marks and one without the absolute marks but having only the grades will be forwarded by the Academic Committee Chairman to the Principal.

l) Declaration of results

i) The letter grades awarded to the students in each subject will be put on the departmental notice board soon after the final Academic Committee meeting.

In case a student feels aggrieved, he/she can contact the concerned teachers for a second look at his /her performance but not later than two weeks from the commencement of the semester following the announcement of the results. The student shall have access to his/her answer paper(s) in the end semester examination which may be shown to him/her by the teacher(s) concerned.

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If the teacher feels that the case is genuine he/she may reexamine and forward the revised grade, if any, to the Course Coordinator through the Chairman of the Class Committee with justification for the revision and with the intimation to Head of the Department.

ii) The U grade once awarded stays in the record of the student and is deleted when he/she completes the subject later, indicating also the number of attempts made in that course. The CGPA will be accordingly revised deleting 'U' as the case may be in the earlier attempts in that course. The grade acquired by the student later will be indicated in the grade card of the appropriate semester.

m) Grade Card

1. The grade card will be issued at the end of the semester to each student by the University of Calicut based on the recommendation of the Principal.

   It will contain the following:

   (a) The course code, title of the subject/project and grade secured by the candidate for each course registered for that semester.

   (b) Performance in each subject by the letter grade obtained vide 12i and 12j.

   (c) The total number of credits earned by the student up to the end of that semester.

   (d) Grade Point Average (GPA) of all the courses taken during a semester if he successfully completed all the courses in that semester.

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(e) The Cumulative Grade point Average (CGPA) of all the courses taken from the first semester onwards .

(f) Date of admission,Date of completion of the project and date of viva voce.

2. The Grade Point Average **(GPA)** will be calculated by the formula

$$\text{GPA} = \frac{\sum(C \times GP)}{\sum C}$$

where ***C*** = credit for the course, ***GP*** = the grade point obtained for the course and the sum is over all the courses taken in that semester.

For the Cumulative Grade Point Average (CGPA) a similar formula is used except that the sum is over all the courses taken in all the semesters completed up to the point in time.

3. No rank will be awarded to the students at the end of M Tech course.

4. All candidates who qualify for the degree and secure not less than a CGPA of 6.5 of all the semesters shall be declared to have passed the M Tech Degree examination in First Class

5. All candidates who qualify for the degree and secure not less than a CGPA of 8 of all the semesters shall be declared to have passed the M Tech Degree examination in First Class with Distinction.

n) Eligibility for the award of M Tech Programme

A student shall be declared to be eligible for the award of M Tech degree if he/she

a) Registered and successfully completed all the course work and the project work.

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b) successfully acquired the minimum number of credits prescribed in the curriculum in the given stream within the stipulated time vide 11.h

c) No dues to college.

d) No disciplinary action is pending against him/her.

13 Revision of regulation

Not-withstanding all that has been stated above the Universiy of Calicut has the right to modify any of the regulations, scheme of studies, Examination and syllabi from to time.

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File Ref.No.13725/GA - IV - J - SO/2013/CU

UNIVERSITY OF CALICUT

Abstract

UG Programme- SDE- Readmission of 2013 and earlier admission students- CCSS stream to CUCBCSS stream- resolution of the Steering Committee on CBCSS UG 2014- implemented-orders issued.

G & A - IV - J

U.O.No. 9347/2015/Admn Dated, Calicut University.P.O, 04.09.2015

Read:-1. U.O.No.9818/2014/Admn Dated, Calicut University.P.O, 23.10.2014
2. U.O Note No.18408/SDE-C-ASST-1/2014/CU dated 10.06.2015
3. Item No II(b) in the minutes of the meeting of the Steering Committee on CBCSS UG-2014 held on 11.06.2015
4. Item No.1.19 in the minutes of the LXXIII meeting of the Academic Council held on 11.07.2015
5. Circular No.53986/GA - I - F 1/2015/Admn dated 04.08.2015

ORDER

Modified Regulations of CUCBCSS UG Programme 2014 has been implemented in University of Calicut, vide paper read as (1).

Vide paper read as (2) it has been informed by School of Distance Education that many representations are being received from candidates of 2011 & 2012 admissions (CCSS Scheme) for readmission to IIIrd and higher semesters (CUCBCSS Scheme) and a clarification in this regard is sought for.

The matter was placed before the Steering Committee on CBCSS UG 2014 and the Steering Committee on CBCSS UG 2014, vide paper read as (3), resolved that readmitted students of SDE be allowed to appear the examination along with the supplementary candidates in the same scheme in which they have admitted and If the same scheme does not exist, they shall be allowed to appear the existing syllabus/scheme.

Vide paper read as (4), the Academic Council approved the resolution of the Steering Committee on CBCSS UG 2014.

The Vice Chancellor has ordered to implement the decision of Academic Council as per paper read as (5).

Sanction has, therefore, been accorded for implementing the decision of the Steering Committee on CBCSS UG-2014 that the readmitted students of SDE of 2013 and earlier admission of semester system be allowed to appear the examination along with the supplementary candidates in the same scheme, in which they have admitted and If the same scheme does not exist, they shall be allowed to appear the existing syllabus/scheme.

Orders are issued accordingly.

Usha K
Deputy Registrar

To

DR-School of Distance Education
Copy to: Pareeksha Bhavan

Forwarded / By Order

Section Officer

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of Steering Committee on CBCSS UG 2014 on the readmission of regular students of 2013 and earlier students of semester system to the present batch fulfilling the following conditions:

1. While considering the Re-admission cases of CCSS – 2009 admission candidates, who have completed the Programme(already re-admitted)

- Assure that 120 credits are done.
- If course/courses are duplicated, eliminate the duplicated course/courses by taking the highest grade/marks of the said course.
- In order to maintain the 120 credits due to the duplication of course/courses, the suggestion/recommendation of the Chairman, BoS concerned need to be sought.
- The attendance component of duplicated course can be carried to the new course in order to calculate the internal marks.
- The Principal shall forward the internal marks of the course to be taken by the student in order to have the balance of the credit of 120.
- Students shall appear for the special/regular exam of the deficient course at their own cost.
- Separate template for consolidated marklist will be made for the re-admitted candidates by making necessary entries in the Tabulation Register.

2. While readmitting the CCSS – 2009 and onwards admission candidates to CUCBCSS UG-2014 Programme w.e.f 2015 batch

- Re-admission period is limited to 6 years - from the date of discontinuation of the course.
- Re-admission cases need to be informed to the University by the Principals of the colleges within one month from the date of commencement of the semester.
- During re-admission to CUCBCSS, if a candidate has already done a course/courses in CCSS, which is similar in Syllabus and with same credit, after seeking remarks from the Chairman, BoS, the WGPA of the course/courses be multiplied by 25 in order to calculate the percentage and hence, to determine the corresponding marks.

Orders are issued accordingly.

Usha K
Deputy Registrar

To

All the affiliated colleges

Copy to: Pareeksha Bhavan/PS TO VC/PA TO REGISTRAR/PA TO PVC

Forwarded / By Order

Section Officer

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File Ref.No.13725/GA - IV - J - SO/2013/CU

UNIVERSITY OF CALICUT

Abstract

UG Programme-Readmission- semester system-2013 and earlier admission- regular candidates- orders issued

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G & A - IV - J

U.O.No. 9074/2015/Admn Dated, Calicut University.P.O, 24.08.2015

Read:-1. U.O No. GA I/J2/3601/08(Vol.II) Dated, 19.06.2009.

2. U.O.No. 9818/2014/Admn Dated, Calicut University.P.O, 23.10.2014

3. Request of various students of 2013 and earlier students and Notes from Pareeksha Bhavan

4. Item No II(a). in the minutes of the meeting of the Steering Committee on CBCSS UG-2014 held on 11.06.2015

5. Report of the Subcommittee constituted by the Steering Committee on CBCSS UG-2014

6. Minutes of the meeting of the Steering Committee on CBCSS UG-2014 held on 03.08.2015

7. Orders of Vice Chancellor dated 13.08.2015

ORDER

The Regulation for Choice based Credit Semester System for Under-Graduate Programme in the affiliated colleges was implemented in the University w.e.f 2009 admission, vide paper read as (1) above.

Vide Paper read as (2) Modified Regulations of CUCBCSS UG Programme 2014 has been implemented in University of Calicut.

The requests from various students of 2013 and earlier admission and Principals of colleges have been received by University regarding the readmission of those students to the present batch of UG Programme coming under CUCBCSS UG Regulations 2014, vide Paper read as (3).

The matter was placed before the Steering Committee on CBCSS UG 2014, vide paper read as (4) and a committee consisting of Dr.K.M.Naseer, Controller of Examinations and Mr.M.P.Narayanan has been constituted to study the issue of readmission of regular students.

Vide paper read as (5) the committee submitted the report and it was placed before the Steering Committee on CUCBCSS UG- 2014.

The Steering Committee on CBCSS UG-2014, vide paper read as (6) discussed the report in detail and apporved the same.

The Vice Chancellor, considering the exigency, approved the minutes of the meeting of the Steering Committee on CBCSS UG 2014 held on 03.08.2015, subject to ratification by Academic Council, vide paper read as (7).

Hence sanction has been accorded to implement the recommendation of the subcommittee

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Credit and marks distribution for BBA (With only one Complementary Course)

Sem.	Common Course			General		Core Course					Complementary Course	Open Course	Total
	English		Additional Language										
I	4	3	4			5					4		20
II	4	3	4			5					4		20
III				4	4	4			4		4		20
IV				4	4	4			4		4		20
V						4	4	4	4	4		2	22
VI						4	4	4	4	2			18
Total	14 Credits (400 Marks)		8 Credits (200 Marks)	16 credits (400 Marks)		64 credit (1550Marks)					16 Credit (400 Marks)	2 Credits (50 Marks)	120
	38 Credits (1000 Marks)					82 Credits (2000 Marks)							120
	Total marks = 3000												

BBA Mark distribution

Common English	4 x 100	400	600
Additional: Mal/Hindi....	2 x 100	200	
General	4 x 100	400	400
Core	15 x 100	1500	1550
Project		50	
Open		50	50
Complementary	4 x 100	400	400
		Total Marks	**3000**

CUCBCSSUG 2014

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Credit and Mark distribution for B.Com.

Sem.	Common Course			General		Core Course					Complementary Course	Open Course	Total
	English		Additional Language										
I	4	3	4			4					4		19
II	4	3	4			4					4		19
III				4	4	4		4			4		20
IV				4	4	4		4			4		20
V						4	4	4	4	4		2	22
VI						4	4	5	5	2*			20
Total	14 Credits (400 Marks)		8 Credits (200 Marks)	16 credits (400 Marks)		64 credits (1550Marks)					16 Credit (400 Marks)	2 Credits (50 Marks)	120
	38 Credits (1000 Marks)					82 Credits (2000 Marks)							120
													Total marks = 3000

B.Com. Mark distribution

Common English	4 x 100	400	600
Additional: Mal/Hindi….	2 x 100	200	
General	4 x 100	400	400
Core	15 x 100	1500	1550
Project		50	
Open		50	50
Complementary	4 x 100	400	400
		Total Marks	**3000**

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Credit and Mark distribution for LRP Programme with practical and two Complementary Courses

Example: B.Sc. Polymer Chemistry

Sem.	Common Course		General	Core Course	Complementary Course		Open Course	Total
	English	Additional Language			Maths I	Comp. Science II		
I	4 3	4		3	3	2		19
II	4 3	4		3	3	2		19
III			4 4	3 3	3	2		19
IV			4 4	3 4	3	2+4*		24
V				3 3 3 4 4 2			2	21
VI				3 3 3 3 4 2**				18
Total	14 Credits (400 Marks)	8 Credits (200 Marks)	16 credits (400 Marks)	56 credits (1750Marks) (including project 50 marks)	12 Credit (400 Marks)	12 Credit (400 Marks)	2 Credits (50 Marks)	**120**
	38 Credits (1000 Marks)			82 Credits (2600 Marks)				**120**
								Total marks = 3600

* Practicals ** Project

Mark distribution

Common: English		4 x 100	400	600
Additional: Mal/Hindi..		2 x 100	200	
General		4 x100	400	400
Core		17 x 100	1700	1750
Project			50	
Open			50	50
Complementary:	Mathematics	4 x 100	400	400
	Computer Science (P)	5 x 80	400	400
		Total Marks	**3600**	**3600**

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Credit and Mark distribution for Programmes with Practical (B.Sc. Physics)

Sem.	*Common Course Credits*			*Core Course-Physics*	*Complementary Courses credits*		*Open*	*Total credits*
	English		*Additional Language*		**Maths**	**Chem**		
I	4	3	4	2	3	2		18
II	4	3	4	2	3	2		18
III	4		4	3	3	2		16
IV	4		4	3 4*	3	2 4*		24
V				3 3 3 3 3			2	17
VI				3 3 3 3 3 5* 5* 2**				27
Total	22 Credits (600 Marks)		16 Credits (400 Marks)	56 credits (1750Marks)	12 Credits (400 Marks)	12 credits (400 Marks)	2 Credits (50 Marks)	**120**
	38 Credits (1000 Marks)				**Total marks = 3600**			

* Practicals ** Project

B.Sc. Mark distribution

Common: English		6 x 100	600	1000
Additional: Mal/Hindi..		5 x 100	400	
Core : Physics		17 x 100	1700	1750
Project			50	
Open			50	50
Complementary:	Mathematics	4 x 100	400	800
	Chemistry (T)	4 x 80	320	
	Chem. (P)	1 x 80	80	
			Total Marks	**3600**

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B.A. Mark distribution

Common: English	6 x 100	600	1000
Additional: Mal/Hindi..	4 x 100	400	
Core : History	15 x 100	1500	1550
Project		50	
Open		50	50
Complementary:	4 x 100	400	400
		Total Marks	**3000**

Credit & Mark Distribution For Dual Core Programmes
Example: BA Malayalam and Sociology

Subject	Sem.	Common course		Dual Core courses		Open Course	Total
		English	Additional language	Core Course A (Malayalam)	Core Course B (Sociology)		
Hindi Language & Literature	I	4 3	4	5	5		21
	II	4 3	4	5	5		21
	III	4	4	4+4	4		20
	IV	4	4	4	4+4		20
	V	-	-	4+4	4+4	2	20
	VI			4+4+2*	4+4+2*		18
	Total	22 credits (600 Marks)	16 credits (400 Marks)	40 credits (975 Marks)	40 credits (975 Marks)	2 (50 marks)	120
		38credits (1000 Marks)		82 credits (2000 Marks)			**120**
						Total Marks	**3000**

* Project carries 75 marks in lieu of 50 for other programmes.

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Complementary Courses: Duration of each external examination is 3 Hrs. The division of marks between theory and practical shall be stipulated by the Board of studies concerned.

Open Courses: Duration of each external examination is 2 Hrs with 50 marks.

The division of marks between theory and practical and question paper pattern shall be stipulated by the Board of studies concerned

The **maximum marks** of different programmes in same faculty shall be same.

Annexure-IV

-Some useful examples

Credit & Mark Distribution For Programmes Without practical (eg, B.A HINDI)

Subject	Sem.	Common Course		Core Course		Complementary Course**		Open Course	Total
		English	Additional language	Hindi language & Literature		Course I	Course II		
Hindi Language & Literature	I	4 3	4	5		2 } 4	2 } 4		16
	II	4 3	4	5		2 } 4	2 } 4		24
	III	4	4	4	4	2 } 4	2 } 4		16
	IV	4	4	4	4	2 } 4	2 } 4		24
	V	-	-	4 4 4 4 4				2	22
	VI			4 4 4 4 2*					18
	Total	22 credits (600 Marks)	16 credits (400 Marks)	64 credits (1550 Marks)		8	8	2	120
						16 credits (400 Marks)		2credits (50 Marks)	
		38credits (1000 Marks)		82 credits (2000 Marks)					**120**
							Total Marks		**3000**

* Project

** Examinations for the Complementary Courses will be conducted at the end of even semester II & IV

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5. The Chairman of the VIth semester examination should form and coordinate the evaluation teams and their work.

6. Internal Assessment should be completed 2 weeks before the last working day of VIth Semester.

7. Internal Assessment marks should be published in the Department.

8. In the case of Courses with practical examination, project evaluation shall be done along with practical examinations.

9. Chairman Board of Examinations, may at his discretion, on urgent requirements, make certain exception in the guidelines for the smooth conduct of the evaluation of project.

2. PASS CONDITIONS-

1. Submission of the Project Report and presence of the student for viva are compulsory for internal evaluation. No marks shall be awarded to a candidate if she/he fails to submit the Project Report for external evaluation.

2. The student should get a minimum of 40 % marks of the aggregate and 40% separately for ESE for pass in the project.

3. There shall be no improvement chance for the Marks obtained in the Project Report.

4. In an instance of inability of obtaining a minimum of 40% marks, the project work may be re- done and the report may be re-submitted along with subsequent exams through Parent Department as per the existing rule of the University Exam.

Annexure-III

Scheme of Examinations:

1-6 **Common Course English:** Duration of each external examination is 3 Hrs. Each carries a maximum of 100 Marks.

7-10 **Additional languages:** Duration of each external examination is 3 Hrs. Each carries a maximum of 100 Marks.

11-14 **General Courses:** Duration of each external examination is 3 Hrs. Each carries a maximum of 100 Marks.

Core Courses: Duration of each external examination is 3 Hrs. The maximum marks for the theory shall be equal. The division of marks between theory and practicals shall be stipulated by the Board of studies concerned.

For example, if the total marks for the core courses of the science faculty is 900, out of the 900 marks, 720marks (80%) shall be awarded through external evaluation and 180 marks (20%) through internal assessment.

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Note : In the event a candidate fails to secure E grade (40 % marks) in any Course in a semester, consolidation of SGPA and CGPA will be made only after obtaining E grade (40 % marks) in the failed Course in the subsequent appearance.

ANNEXURE II

Guidelines for the Evaluation of Projects

1. PROJECT EVALUATION

1. Evaluation of the Project Report shall be done under Mark System.

2. The evaluation of the project will be done at two stages:
   a) Internal Assessment (supervising teachers will assess the project and award internal Marks)
   b) External evaluation (external examiner appointed by the University)
   c) Marks secured for the project will be awarded to candidates, combining the internal and external Marks

3. The internal to external components is to be taken in the ratio 1:4. Assessment of different components may be taken as below.

Internal(20% of total)		External(80% of Total)	
Components	**Percentage of internal Marks**	**Components**	**Percentage of external Marks**
Punctuality	20	Relevance of the Topic, Statement of Objectives, Methodology (Reference/ Bibliography)	20
Use of Data	20	Presentation, Quality of Analysis/Use of Statistical tools, Findings and recommendations	30
Scheme/Organization of Report	30	Viva-Voce	50
Viva-Voce	30		

4. External Examiners will be appointed by the University from the list of VI[th] Semester Board of Examiners in consultation with the Chairperson of the Board.

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Example-1

Course Code	Course Name	Marks Obtained			Max. marks of the Course	Credit C	Grade point (G)	Credit point C x G	Grade
		Internal (Max.20)	External(Max.80)	Total					
xxxxxx	Xxxxxxx	16	64	80	100	4	5	20	A
xxxxxx	Xxxxxxx	10	40	50	100	3	2	6	D
xxxxxx	Xxxxxxx	18	70	88	100	4	5	20	A
xxxxxx	Xxxxxxx	14	56	70	100	3	4	12	B
xxxxxx	Xxxxxxx	18	58	76	100	3	4	12	B
xxxxxx	Xxxxxxx	12	36	48	100	4	1	4	E

$$SGPA = \frac{Sum\ of\ the\ credit\ points\ of\ all\ courses\ in\ a\ semester}{Total\ credits\ in\ that\ semester}$$

$$SGPA = \frac{20+6+20+12+12+4}{21} = \frac{74}{21} = 3.52$$ B grade

Credit point of Semester I =74

Percentage of marks of semester I = (412/600) x 100 = 68.667 %= 68.67 %

Note:The percentage of marks shall be approximated up to two decimal points(ex. **66.286 %= 66.29 %)**

Example: 2

Semester I Course code	Course Name	Marks Obtained	Max. marks of the course	Credit	Grade point (G)	Grade
xxxxxxx	Xxxxxxx	80	100	4	5	A
xxxxxxx	Xxxxxxxxxx	50	100	3	2	D
xxxxxxx	Xxxxxxxxxx	88	100	4	5	A
xxxxxxx	Xxxxxxxxxx	70	100	3	4	B
xxxxxxx*	Xxxxxxxxx	32	100	3	**0**	**F**
xxxxxxx	Xxxxxxxxx	48	100	4	1	E

*Failed course

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Annexure-1

Method of Indirect Grading ·

Evaluation(both internal and external)is carried out using Mark system .The grading on the basis of a total internal and external marks will be indicated for each course and for each semester and for the entire programme.

Indirect Grading System in 7 point scale is as below:

To find Semester Grade Point Average (SGPA) :

$$SGPA = \frac{Sum\ of\ the\ creditpoints\ of\ all\ courses\ in\ a\ semester}{Total\ creditsin\ that\ semester}$$

$$SGPA = \frac{C1G1 + C2G2 + C3G3 + \cdots\cdots}{c1 + c2 + \cdots\cdots}$$

Where G1, G2……are grade points and C1,C2…are credits of different courses of the **same** semester

Credit point of a semester= SGPA X Credit load of the semester

Seven Point Indirect Grading System

Percentage of Marks (IA+ESE)	Grade	Interpretation	Grade point Average (G)	Range of grade points	Class
90 and above	A+	Outstanding	6	5.5 -6	First class with Distinction
80 to below 90	A	Excellent	5	4.5 -5.49	
70 to below 80	B	Very good	4	3.5 -4.49	First class
60 to below 70	C	Good	3	2.5 -3.49	
50 To below 60	D	Satisfactory	2	1.5 -2.49	Second class
40 to below 50	E	Pass/Adequate	1	0.5 -1.49	Pass
Below 40	F	Failure	0	0 - 0.49	Fail

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additional degree. The registration for additional degree shall be done though SDE in the III semester.

13. GRIEVANCE REDRESSAL COMMITTEE

13.1 College level: The college shall form a Grievance Redressal Committee in each department comprising of course teacher and one senior teacher as members and the Head of the Department as Chairman. This committee shall address all grievances relating to the internal assessment grades of the students. There shall be a college level grievance redressal committee comprising of student advisor, two senior teaches and two staff council members (one shall be elected member) as members and Principal as Chairman.

13.2 University Level: The University shall form a Grievance Redressal Committee as per the existing norms.

14. A Steering Committee consisting of two syndicate members of whom one shall be a teacher, the Registrar of the University, Controller of Examinations, seven teachers from different disciplines (preferably one from each faculty), two Chairpersons of Board of Studies (one UG and 1 PG), and two Deans of Faculty shall be formed to resolve the issues, arising out of the implementation of CUCBCSSUG 2013. The Syndicate member who is also a teacher shall be the Convenor of the committee. The quorum of the committee shall be six and meeting of the committee shall be held at least thrice in an academic year. The resolutions of the committee will be implemented by the Vice-Chancellor in exigency and this may be ratified by the Academic Council.

15. TRANSITORY PROVISION

Notwithstanding anything contained in these Regulations, the Vice-Chancellor shall, for a period of three years from the date of coming into force of these Regulations, have the power to provide by order that these regulations shall be applied to any programme with such modifications as may be necessary.

16. REPEAL

The regulations now in force in so far as they are applicable to programmes offered by the University and to the extent they are inconsistent with these regulations are hereby repealed. In the case of any inconsistency between the existing Regulations and these Regulations relating the Choice-Based Credit Semester System in their application to any course offered in a College, the latter shall prevail.

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11. GRADE CARD

11.1 The University shall issue to the students grade/marks card (by online) on completion of each semester, which shall contain the following information:

a) Name of University

b) Name of College

c) Title of Under Graduate Programme

d) Semester concerned

e) Name and Register Number of student

f) Code number, Title and Credits of each Course opted in the semester

g) Internal marks, External marks, total marks, Grade point (G) and Letter grade in each course in the semester

h) The total credits, total credit points and SGPA in the Semester(corrected to two decimal places)

i) Percentage of total marks

11.2 The final Grade/mark card issued at the end of the final semester shall contain the details of all courses taken during the entire programme including those taken over and above the prescribed minimum credits for obtaining the degree. However, as already mentioned, for the computation of CGPA only the best performed courses with maximum grade points alone shall be taken subject to the minimum credits requirements (120) for passing a specific degree. The final grade card shall show the percentage of marks, CGPA (corrected to two decimal places) and the overall letter grade of a student for the entire programme. The final grade/mark card shall also include the grade points and letter grade of common course, core courses, complementary courses and open courses separately. This is to be done in a seven point indirect scale.

12. AWARD OF DEGREE

The successful completion of all the courses (common, core, complementary and open courses) prescribed for the degree programme with E grade (40%) shall be the minimum requirement for the award of degree.

12.1 Degree for Oriental Title courses: Those students who have passed Oriental Title courses earlier have to appear for the common courses. A 01 to A 06 in order to get POT degree. This can be done through SDE (SDE registration along with the I semester students)

12.2 For obtaining Additional Degree: Those students who have passed UG programme under CCSS have to appear for only Core, Complementary and Open courses for acquiring

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10. INDIRECT GRADING SYSTEM

10.1 Indirect grading System based on a 7-point scale is used to evaluate the performance of students.

10.2 Each course is evaluated by assigning marks with a letter grade (A+, A, B,C,D,E or F) to that course by the method of indirect grading.

10.3 An aggregate of E grade with 40% marks (after external and internal put together) is required in each course for a pass and also for awarding a degree.

10.4 Appearance for Internal Evaluation (IE) and End Semester Evaluation (external) are compulsory and no grade shall be awarded to a candidate if she/he is absent for IE/ESE or both.

For a pass in each course 40% marks or E grade is necessary.

10.5 A student who fails to secure a minimum grade for a pass in a course is permitted to write the examination along with the next batch.

10.6 After the successful completion of a semester, semester Grade point Average (SGPA) of a student in that semester is calculated using the formula given below. For the successful completion of a semester, a student should pass all courses. However, a student is permitted to move to the next semester irrespective of SGPA obtained.

SGPA of the student in that semester is calculated using the formula

$$\text{SGPA} = \frac{\textit{Sum of the credit points of all courses in a semester}}{\textit{Total credits in that semester}}$$

10.7 The cumulative Grade Point Average (CGPA) of the student is calculated at the end of a programme. The CGPA of a student determines the overall academic level of the student in a programme and is the criterion for ranking the students. CGPA can be calculated by the following formula.

$$\text{CGPA} = \frac{\textit{Total credit points obtained in six semesters}}{\textit{Total credits acquired (120)}}$$

SGPA and CGPA shall be rounded off to two decimal places. CGPA determines the broad academic level of the student in a programme and is the index for ranking students (in terms of grade points). An overall letter grade (cumulative grade) for the entire programme shall be awarded to a student depending on her/his CGPA (see table I in Annexure-I)

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9.3(a) Internal Assessment for SDE : MCQ (Objective type) pattern shall be followed under SDE for internal Examinations.

9.4 Moderation: a) Moderation shall be awarded subject to a maximum of 5% of external total marks to be awarded in semester.

b) For a course concerned, the maximum of moderation awarded shall be limited to 10% of the total marks to be awarded for the external course concerned.

c) If a student fails for a single course, this limit can be enhanced to 15% of external in the course.

d) However Board of Examinations concerned, shall have the liberty to fix low percentage of marks for moderation subjected to the conditions mentioned in a), b) and c) above.

9.5 External Evaluation:

External evaluation carries 80% of marks.

External evaluation of Even (2,4,6) semesters will be conducted in centralised valuation camps immediately after the examination. Answerscripts of Odd Semester (1,3, and 5) examinations will be evaluated by home/centralized valuation. All question papers shall be set by the University.

The external examination in theory courses is to be conducted with question papers set by external experts. The evaluation of the answer scripts shall be done by examiners based on a well-defined scheme of valuation and answer keys shall be provided by the University. The external examination in practical courses shall be conducted by two examiners – one internal and an external, appointed by the University. The project evaluation with viva can be conducted either internal or external which may be decided by the Board of Studies concerned. No practical examination will be conducted in odd semester. Practical examinations shall be conducted in the even semester (II,IV and VI) as per the decision of the appropriate academic bodies.

9.6 After the external evaluation only marks are to be entered in the answer scripts. All other calculations including grading are done by the University.

9.7 Revaluation: In the new system of grading, revaluation is permissible. The prevailing rules of revaluation are applicable to CUCBCSSUG 2014.

9.8 Students can apply for photocopies of answer scripts of external examinations. Applications for photocopies/scrutiny/revaluation should be submitted within 10 days of publication of results. The fee for this shall be as decided by the University.

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1) Internal assessment 2)External Evaluation

20% weight shall be given to the internal assessment. The remaining 80% weight shall be for the external evaluation.

9.3 Internal Assessment

20% of the total marks in each course are for internal examinations. The marks secured for internal assessment only need to be sent to University by the colleges concerned.

The internal assessment shall be based on a predetermined transparent system involving written test/assignments/seminars/viva and attendance in respect of theory courses and lab involvement/records attendance in respect of Practical Courses.

Internal assessment of the project will be based on its content, method of presentation, final conclusion and orientation to research aptitude.

Components with percentage of marks of Internal Evaluation of Theory Courses are Attendance 25%, Assignment/Seminar/Viva 25% and Test paper 50%

For practical courses – Attendance 25%, Record 50% and lab involvement 25% as far as internal is concerned.

(if a fraction appears in internal marks, nearest whole number is to be taken)

Attendance of each course will be evaluated as below:

Above 90% attendance	100% marks allotted for attendance
85 to 89%	80%
80 to 84%	60%
76 to 79%	40%
75%	20%

To ensure transparency of the evaluation process, the internal assessment marks awarded to the students in each course in a semester shall be notified on the notice board at least one week before the commencement of external examination. There shall not be any chance for improvement for internal marks. The course teacher(s) shall maintain the academic record of each student registered for the course, which shall be forwarded to the University by the college Principal after obtaining the signature of both course teacher and HOD

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8.2 Practical examinations shall be conducted by the University at the end of fourth and sixth semester (except for music). Conduct of practical examinations in the second semester as per the syllabi is permitted for B.Sc. programmes in HMCS and B.Sc. Costume and Fashion Designing.

8.4 External viva-voce, if any, shall be conducted along with the practical examination/project evaluation.

8.5 The model of question papers may be prepared by the concerned BOS. Each question should aim at – (1) Assessment of the knowledge acquired (2) standard application of knowledge (3) application of knowledge in new situations.

8.6 Different types of questions shall posses different marks to quantify their range. Maximum marks can vary from course to course depending on their comparative importance. But a general pattern as shown in section 8.5 may be followed by the Boards of studies.

8.7 Project evaluation shall be conducted at the end of sixth semester. 20% of marks are awarded through internal assessment.

8.8 In the (CUCBCSSUG 2014 scheme) – UG pattern, the common course IV' will cover the whole aspects of the syllabi for environmental studies. So there is no need of conducting a separate examination in Environmental studies for the students of CUCBCSSUG 2014 scheme.

8.9 Improvement course: Improvement of a particular semester can be done only once. The student shall avail the improvement chance in the succeeding year after the successful completion of the semester concerned. The internal marks already obtained will be carried forward to determine the new grade/mark in the improvement examination. If the candidate fails to appear for the improvement examination after registration, or if there is no change in the results of the improved examination, the mark/grade obtained in the first appearance will be retained.

Improvement and supplementary examinations cannot be done simultaneously.

9. EVALUATION AND GRADING

9.1 Mark system is followed instead of direct grading for each question. For each course in the semester letter grade, grade point and % of marks are introduced in 7-point indirect grading system as per guidelines given in Annexure-1

9.2 Course Evaluation

The evaluation scheme for each course shall contain two parts

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7. REGISTRATION

7.1 Each student shall make an online registration for the courses he/she proposes to take, in consultation with the Faculty Advisor within two weeks from the commencement of each semester. The college shall send a list of students registered for each programme in each semester giving the details of courses registered, including repeat courses, to the University in the prescribed form within 45 days from the commencement of the semester.

It is mandatory that the students who got admission under CUCBCSS UG 2014 in SDE shall register for the examinations of the concerned semesters in the same year itself.

7.2 A student shall be normally permitted to register for the examination if he/she has required minimum attendance. If registration for examination is not possible owing to shortage of attendance beyond condonation limit, the student shall be permitted to move to the next semester. In such cases, a request from the student may be forwarded through the Principal of the college to the University within two weeks of the commencement of that semester. An undertaking from the Principal may also be obtained stating that the students will be permitted to make up the shortage of attendance in that semester after completing 6 semesters. **(Students shall make up the shortage of attendance in 'Repeat Semester' after completion of the programme)**

The 'Repeat Semester' shall be possible only once for the entire programme.(see 4.10 b)

7.3 A student who registered for the course shall successfully complete the programme within 6 years from the year of first registration. If not, such candidate has to cancel the existing registration and join afresh as a new candidate.

7.4 For open courses there shall be a minimum of 10 and maximum of 75 students per batch. For other courses existing pattern will be followed.

7.5 Those students who have followed the UG courses in annual pattern or Choice based Credit & Semester System pattern can cancel their earlier registration and register afresh for CUCBCSSUG 2014 scheme in the same discipline or a different one.

7.6 The students who have attendance within the limit prescribed, but could not register for the examination have to apply for **Token registration,** within two weeks of the commencement of the next semester.

8. EXAMINATION

8.1 There shall be University examinations at the end of each semester, except complementary courses of BA programmes.

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different, they have to undergo them in the new stream. The marks/grace obtained for common courses will be retained.

6.10 A student registered under distance education stream in the CUCBCSS pattern may be permitted to join the regular college (if there is a vacancy within the sanctioned strength) in the third and fifth semester with the same programme only. If there is a change in complementary courses, it can be done with following conditions: i) the external and internal marks/grade obtained in the previous semesters for the earlier complementary courses will be cancelled. ii) the students have to write the external examinations for the previous semester for the new complementary courses along with the subsequent batch. iii) An undertaking to the effect that "the internal evaluation for the previous semesters of the new complementary courses will be conducted", is to be obtained from the Principal of the college in which the student intends to join.

6.11 Provision for **credit transfer** is subject to common guidelines prepared by the faculty concerned.

6.12 There shall be provision for **Readmission** of students in CUCBCSS 2014 as in CCSSUG Regulations 2009 provided.

There should be a gap of at least one semester for readmission.

The candidate seeking readmission to a particular semester should have registered for the previous semester examination.

There should not be any change in the scheme.

If there is a change in the scheme readmission can be given based on the formula created for the same

- *The conditions for readmission of regular students of 2013 and earlier admissions of semester system to the 2014 batch is detailed in U.O.No. 9074/2015/Admn Dated, Calicut University.P.O, 24.08.2015. (U.O appended)*
- *The clarification for readmission of students of SDE of 2013 and earlier admission of semester system (CCSS stream to CUCBCSS stream) is detailed in U.O.No. 9347/2015/Admn Dated, Calicut University.P.O, 04.09.2015 (U.O appended)*

For readmission, the vacancy should be within the sanctioned strength.

Re admission shall be taken within 2 weeks from the date of commencement of the semester concerned.

If there is no vacancy in the junior batch of the parent college, re admission can be taken in another college with the junior batch if there is vacancy within the sanctioned strength in the concerned college, provided the rules of college transfer cannot be clubbed with clause for re admission.

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5.8 Boards of Studies have to be constantly in touch with renowned Indian Universities and at least a few foreign universities. Subject experts have to be identified in all major fields of study and endeavour, and consulted frequently.

6. ADMISSION

6.1 The admission to all programmes will be as per Rules and Regulations of the University.

6.2 The eligibility criteria for admission shall be as announced by the University from time to time.

6.3 Separate rank lists shall be drawn up for reserved seats as per the existing rules.

6.4 The admitted candidates shall subsequently undergo the prescribed courses of study in a college affiliated to the University for six semesters within a period of not less than three years; clear all the examinations prescribed and fulfill all such conditions as prescribed by the University from time to time.

6.5 The college shall make available to all students admitted a **prospectus** listing all the courses offered in various departments during a particular semester. The information so provided shall contain title of the courses, the semester in which it is offered and credits for the courses. Detailed syllabi shall be made available in the University/college websites.

6.6 There shall be a uniform **calendar** prepared by the University for the registration, conduct/schedule of the courses, examinations and publication of results.The University shall ensure that the calendar is strictly followed.

Admission notification and the academic calendar for SDE UG programmes will be prepared and issued by SDE.

6.7 There shall be provision for **Inter Collegiate and Inter University Transfer** in third and fifth semester within a period of two weeks from the date of commencement of the semester. For the **Inter University or Intra University** transfer of a student, he/she shall have a minimum of 20 credits in the credit bank a) in the same discipline and b) within Kerala.

6.8 **Complementary change** at the time of college transfer is permitted in the third semester if all conditions are fulfilled. **Complementary change** will not be permitted in the fifth semester.

Core/Complementary change under SDE: Existing rule (as in CCSS UG 2011, SDE) shall be followed in Core/Complementary Change.

6.9 **CUCBCSS regular students can join distance education stream in any semester in the same programme or different one. If core and complementary courses are**

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besides the regular hours. Such a benefit is applicable and limited to a maximum of 8 courses in an academic year spreading over two semesters. No credit shall be assigned for such activities.

In addition, maximum of 6 marks per semester can be awarded to the students of UG Programmes, for participating in the College Fitness Education Programme (COFE).

4.12 **Project:** Every student of a UG degree programme shall have to work on a project of not less than 2 credits under the supervision of a faculty member as per the curriculum.

5. BOARD OF STUDIES AND COURSES

5.1 The UG Boards of Studies concerned shall design all the courses offered in the under-graduate programmes. The Boards shall design and introduce new courses, modify or re-design existing courses and replace any existing courses with new/modified/re-designed courses to facilitate better exposure and training for the students.

5.2 **The Syllabus** of a course shall include the title of the course, the number of credits, maximum marks for external and internal evaluation, duration of examination hours, distribution of internal marks and reference materials. The Board of Studies concerned has the liberty to decide whether the questions can be answered in Malayalam or not. Maximum efforts shall be made to maintain a uniform pattern while designing the courses, project, viva, practical etc. in the scheme and syllabus of various programmes coming under same faculty.

5.3 Each course have an alpha numeric code and title of the course. The code gives information on the subject, the semester number and the serial number of the course.

5.4 The syllabus of each course shall be prepared module wise. Number of instructional hours and reference materials are also to be mentioned against each module.

5.5 The scheme of examination and model question papers are to be prepared by the Board of Studies.

5.6 Board of Studies should analyse the previous examination question papers.

5.7 BOS should make the changes in the syllabi and text books in consultation with the teachers.

At least two meetings of teachers may be held in every department in every college, one in mid-year and one towards the year end. The recommendations of these meetings should be sent to the Boards of Studies.

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4.9 **Credits:** Each course shall have certain credits. For passing the degree programme the student shall be required to achieve a minimum of 120 credits of which 38 (22 for common (English) courses + 16 for common languages other than English) credit shall be from common courses, a minimum of 2 credits for project and 2 credits for the open course. (In the case of LRP Programmes 14 credits for common courses, 8 credits for additional language courses and 16 credits for General courses) Minimum credits required for core, complementary and open courses put together are 82. However the credits to be set apart for the Core and Complementary courses shall be decided by the faculty concerned. The maximum credits for a course shall not exceed 5. Honours and dual core programmes are having separate credit distribution.

4.10 **A) Attendance:** A student shall be permitted to appear for the semester examination, only if he/she secures not less than 75% attendance in each semester. Attendance shall be maintained by the concerned Department. Condonation of shortage of attendance to a maximum of 9 days in a semester subject to a maximum of two times during the whole period of a degree programme may be granted by the University. Benefits of attendance may be granted to students who attend the approved activities of college/university with prior concurrence of the Head of the institution. Participation in such activities may be treated as presence in lieu of their absence on production of participation/attendance certificate in curricular/extracurricular activities. The condonation of shortage of attendance shall be granted according to the existing prescribed norms of the University.

If a student registered in first semester of the UG degree programme is continuously **absent from the classes for more than 14 days** at the beginning of the semester without informing the authorities, the matter shall immediately be brought to the notice of the Registrar of the University. The names of such **students shall be removed from the rolls.**

B) Admission to repeat courses should be within the sanctioned strength

However if more candidates are there, the candidates who have suffered serious health problems, on production of a medical certificate issued by a physician not below the rank of a Civil Surgeon in Govt. service, may be permitted to repeat the course, with a written order issued by the Registrar, Calicut University (by considering his/her SGPA/CGPA and percentage of attendance). **The number of such candidates should not exceed two.**

4.11 **Grace Marks:** Grace marks may be awarded to a student for meritorious achievements in co-curricular activities (in Sports/Arts/NSS/NCC/Student Entrepreneurship) carried out

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Common courses 1-6 shall be taught by English teachers and 7-10 by teachers of additional languages and general courses 11-14 by teachers of departments offering core courses concerned.

General courses I,II and III are numerical skill, general informatics and entrepreneurship respectively.

General course IV shall be designed by the concerned group of boards.

The subject under Language Reduced Pattern (LRP) (Alternative Pattern) are grouped into four.

1. BBA, B.Com., Fashion Technology and Hotel Management
2. Industrial Chemistry, Polymer Chemistry and Food Science and Technology
3. Computer Science, Electronics, Multimedia and Instrumentation
4. Biotechnology, Biochemistry, Aquaculture and Plant Science.

Common Courses in various programmes

No.	Programme	Semester I	Semester II	Semester III	Semester IV
1	B.A. & B.Sc	1,2,7	3,4,8	5,9	6,10
2	LRP	1,2,7*	3,4,8*	11,12	13,14

* However the existing additional language pattern shall be continued.

The language pattern of BBA shall be the same as that of B.Com. in the college where both the programmes exist.

Common and open courses under SDE: Existing pattern (as in CCSS UG 2011, SDE) shall be followed under SDE.

4.6 Core courses: Core courses are the courses in the major (core) subject of the degree programme chosen by the student. Core courses are offered by the parent department. The number of core courses varies from 10 to 18 including a project work.

4.7 Complementary Courses: Complementary courses cover one or two disciplines that are related to the core subject and are distributed in the first four semesters.

4.8 Open courses: There shall be one open course in core subjects in the fifth semester. The open course shall be open to all the students in the institution except the students in the parent department. The students can opt that course from any other department in the institution. Each department can decide the open course from a pool of three courses offered by the University.

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4.2 **Duration:** The duration of an under gradate programme shall be 6 semesters distributed over a period of 3 academic years. The odd semesters (1,3,5) shall be from June to October and the even semesters (2,4,6) shall be from November to March. Each semester shall have 90 working days inclusive of all examinations.

4.3 **Courses:** The under graduate programme shall include four types of courses, viz; Common Courses (Code A), Core courses (Code B), Complementary courses (Code C) and open course (Code D)

The minimum number of courses required for completion of an undergraduate programme may vary from 30 to 40, depending on the credits assigned to different courses.

4.4 **Course code :** Each course shall have a unique alphanumeric code number, which includes abbreviation of the subject in three letters, the semester number (1 to 6) in which the course is offered, the code of the course (A to D) and the serial number of the course (01,02 .....) course code will be centrally generated by the university. A particular complementary open course should have same code with same credit even though it is offered for different programmes. For example: ENG2A03 represents a common course of serial number 03 offered in the second semester and PHY2B02 representing second semester Core course 2 in Physics programme.

4.5 **Common Courses:** In general, every under graduate student shall undergo 10 common courses (total 38 credits) **Chosen from a group of 14 common courses listed below, for completing the programme:**

1. Common English Course I *2. Common English Course II* *3. Common English Course III* *4. Common English Course IV* *5. Common English Course V* *6. Common English Course VI*	English courses I to VI- applicable to BA/BSC Regular pattern English courses I to IV- applicable to Language Reduced Pattern (LRP) Programmes B.com, BBA, BBA (T), BBM, B.Sc (LRP), BCA etc.
7. Additional Language Course I *8. Additional Language Course II* *9. Additional Language Course III* *10.Additional Language Course IV*	Addl.Language courses I to IV- applicable to BA/B.Sc Regular Pattern Addl.Language courses I&II- applicable to Language Reduced Pattern (LRP) Programmes
11. General Course I *12. General Course II* *13. General Course III* *14. General Course IV*	Applicable to Language Reduced Pattern (LRP) Programmes

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3.21 **'Letter Grade'** or simply 'Grade' in a course is a letter symbol (A+, A, B,C,D,E and F) Grade shall mean the prescribed alphabetical grade awarded to a student based on his/her performance in various examinations. The Letter grade that corresponds to a range of CGPA is given in (Annexure-I)

3.22 Each letter grade is assigned a **'Grade point'** (G) which is an integer indicating the numerical equivalent of the broad level of performance of a student in a course. **"Grade Point"** means point given to a grade on 7 point scale.

3.23 **'Semester Grade Point Average' (SGPA)** is the value obtained by dividing the sum of credit points obtained by a student in the various courses taken in a semester by the total number of credits in that semester. SGPA shall be rounded off two decimal places. SGPA determines the overall performance of a student at the end of a semester.

3.24 **'Credit Point'**(P) of a course is the value obtained by multiplying the grade point (G) by the credit (C) of the course: P=G x C

3.25 **Credit Point of a semester is** the product of SGPA of that semester and the total credit load of that semester.

Credit Point of a Semester = SGPA x Credit load (Total Credits) of the semester

3.26 **'Cumulative Grade Point Average'** (CGPA) is the value obtained by dividing the sum of credit points in all the semesters taken by the student for the entire programme by the total number of credits in the entire programme and shall be rounded off by two decimal places.

3.27 **Grade Card** shall mean the printed record of student's performance, awarded to him/her (see section 11)

3.28 **Course teacher:**A teacher nominated by the HOD shall be in charge of a particular course

3.29 Words and expressions used and not defined in this regulation, but defined in the Calicut University Act and Statutes shall have the meaning assigned to them in the Act and Statutes.

3.30 **'Dual core'** means a programme with double core subjects, traditionally known as double main.

3.31 **'Strike off the roll'** A student who is continuously absent for 14 days without sufficient reason and proper intimation to the Principal of the college shall be removed from the roll.

4. PROGRAMME STRUCTURE

4.1 Students shall be admitted into undergraduate programme under faculties of Science, Humanities, Language & Literature, Commerce & Management, Fine Arts, Journalism and such other faculties constituted by University from time to time.

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Page 6 of 32

3.6 '**Common course**' means a course that comes under the category of courses, including compulsory English and additional language courses and a set of general courses applicable for Language Reduced Pattern (LRP) programmes, a selection of which is compulsory for all students undergoing undergraduate programmes.

3.7 '**Core course**' means a compulsory course in a subject related to a particular degree programme. (Traditionally called 'Main')

3.8 '**Open course**' means a course which can be opted by a student at his/her choice.

3.9 '**Complementary course**' means a course which is generally related to the core course (traditionally referred to as subsidiary paper)

3.10 '**Repeat course**' is a course that is repeated by a student in a semester for want of sufficient attendance. He/she can repeat the course whenever it is offered again.

3.11 '**Improvement course**' is a course registered by a student for improving his performance in that particular course.

3.12 '**Audit course**' is a course for which no credits are awarded. If the credits are awarded for these courses, such credits will not be counted for the computation of SGPA and CGPA.

3.13 '**Department**' means any Teaching Department in a college offering a course of study approved by the University as per the statutes and Act of the University.

3.14 '**Department Co-ordinator**' is a teacher nominated by a Dept. Council to co-ordinate the continuous evaluation undertaken in that department.

3.15 '**Department Council**' means the body of all teachers of a department in a college.

3.16 '**Parent Department**' means the Department which offers a particular degree programme

3.17 '**College Co-ordinator**' is a teacher nominated by the college council to co-ordinate the effective running of the process of internal evaluation undertaken by various departments within the college. She/he shall be nominated to the college level monitoring committee.

3.18 '**Faculty Adviser**' means a teacher from the parent department nominated by the Department Council, who will advise the student in the academic matters and in the choice of open courses.

3.19 '**Credit**'**(C)** is a unit of academic input measured in terms of weekly contact hours/course contents assigned to a course.

3.20 '**Extra Credit**' is the additional credit awarded to a student over and above the minimum credits required in a programme, for achievements in co-curricular activities conducted outside the regular class hours, as decided by the University. For calculating CGPA Extra credits are not to be considered.

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UNIVERSITY OF CALICUT

Regulations for Choice Based Credit and Semester System for Under Graduate Curriculum -2014

1. TITLE

1.1 These regulations shall be called "Calicut University Regulations for Choice Based Credit and Semester System for Under Graduate Curriculum 2014" (CUCBCSSUG 2014).

2. SCOPE, APPLICATION & COMMENCEMENT

2.1 The regulations provided herein shall apply to all regular Under- Graduate programmes under faculties conducted by the University of Calicut for the admissions commencing from 2014, with effect from the academic year 2014-2015.

2.2 The provisions herein supersede all the existing regulations for the regular Under-Graduate programmes under faculties specified in section 4.1 conducted by University of Calicut unless otherwise specified.

2.3 These regulations are applicable to the UGC programmes under School of Distance Education, University of Calicut, also.

2.4 Every programme conducted under the Choice Based Credit and Semester System in a college shall be monitored by the College Council. And;

Every UG programme conducted under CUCBCSS UG in SDE shall be monitored by the Director, SDE.

3. DEFINITIONS

3.1 '**Programme**' means the entire course of study and examinations for the award of a degree (Traditionally referred to as course)

3.2 '**Duration of programme**' means the time period required for the conduct of the programme.The duration of an under-graduate degree programme shall be six semesters distributed in a period of 3 years.

3.3 '**Academic Week**' is a unit of five working days in which distribution of work is organized from day one to day five, with five contact hours of one hour duration on each day. A sequence of 18 such academic weeks constitutes a semester.

3.4 '**Semester**' means a term consisting of 90 working days including examination days distributed over a minimum of 18 weeks of 5 working days each.

3.5 '**Course**' means a segment of subject matter to be covered in a semester (traditionally referred to as paper)

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read as (15) sanction has been accorded by the Vice Chancellor to implement the resolution of the Academic Council.

Hence the above mentioned modifications have been effected in the Modified CUCBCSS UG Regulations 2014, w.e.f 2014 admissions, for all UG programmes under CUCBCSS- Regular and SDE in the University of Calicut.

Orders are issued accordingly.

(The Modified CUCBCSS UG Regulations 2014 is available in the University website:www.universityofcalicut.info.)

Usha K
Deputy Registrar

To

All the Institutions and Depts. under the University of Calicut.
Copy to: PS to VC/ PA to Registrar/ PA to CE

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Section Officer

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. The Kerala State Higher Education Council further requested the Vice Chancellors of the concerned Universities to consider those 11 recommendations and to start the process of reforming the Choice Based Credit Semester system with immediate effect so that the revised system can be implemented w.e.f the next academic year, vide paper read as (3).

The Modified CBCSS UG Regualtions has been implemented vide paper read as (4).

Vide paper read as (5) above the Steering Committee on CBCSS UG has been reconstituted for the revision of CBCSS UG Regulations [implemented as per paper read as (4)]

The Revised CUCBCSS UG Regulations 2014, submitted after holding discussions with the Chairmen of various UG Boards of Studies, by the Steering Committee, was approved and implemented vide paper read as (6), subject to ratification by the Academic Council.

The Steering Committee has resolved to modify the Revised CUCBCSS UG Regulations 2014 to incorporate certain provisions for Regular and SDE UG Programmes, vide paper read as (7) and submitted the Modified CUCBCSS UG Regulations 2014, for all UG Programmes under CUCBCSS - Regular and SDE, w.e.f 2014 Admissions.

The Hon'ble Vice Chancellor, considering the exigency, exercising the powers of the Academic Council has approved the Minutes of the Steering Committee, and the Modified CUCBCSS UG Regulations 2014 for implementation w.e.f 2014 admissions, subject to ratification by the Academic Council vide paper read as (8).

Modified CUCBCSS UG Regulations 2014, w.e.f 2014 admissions, for all UG programmes under CUCBCSS- Regular and SDE in the University of Calicut has been implemented vide U.O.No.9818/2014/Admn dated 23.10.2014.

The LXXII meeting of Academic Council held on 15.01.2015, vide paper read as (9), ratified the action of VC in having approved the Minutes of the Steering Committee on CBCSS UG held on 05.09.2014 and the implementation of the Modified CUCBCSS UG Regulations 2014, for all UG Programmes under CUCBCSS-Regular and SDE, w.e.f.2014 admissions.

Vide paper read as (10), the Senate approved the modified CUCBCSS UG Regulations 2014, for all UG Programmes under CUCBCSS-Regular and SDE, w.e.f 2014 admissions.

The Steering Committee on CBCSS UG 2014, vide paper read as (11), resolved to make the following modifications in the Modified UG Regulations 2014:

1) To modify the Clause 4.11 by adding an additional paragraph as follows: In addition, maximum of 6 marks per semester can be awarded to the students of UG Programmes, for participating in the College Fitness Education Programme (COFE)

2) To delete the 2nd paragraph of Clause 8.2, i.e SDE UG Programmes shall be Non-Practical Programmes (Programmes without practical)

3) Also made clarifications in the readmission process of regular students of 2013 and earlier admission of semester system to the present batch, vide paper read as (12) and students of 2013 and earlier admission of School of Distance Education vide paper read as (13).

The Academic Council approved the above modifications, vide paper read as (14) and vide paper

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File Ref.No.13725/GA - IV - J - SO/2013/CU

UNIVERSITY OF CALICUT

Abstract

CUCBCSS UG Regulations 2014-Choice Based Credit Semester System-Modified Regulations - for all UG Programmes under CUCBCSS- Regular and SDE-w.e.f 2014 - Implemented -Orders issued.

G & A - IV - J

U.O.No. 11850/2015/Admn Dated, Calicut University.P.O, 20.11.2015

Read:-1. Hrdayakumari Committee Report on CBCSS

2. GO(Ms)No.507/2012/HEdn dated 16.10.2012.

3. Letter from Vice Chairman, KSHEC dated 08.11.2012.

4. U.O.No. 3797/2013/CU dated, 07.09.2013(File Ref.No.13725/GA - IV - J - SO/2013/CU)

5. U.O.No. 1356/2014/CU dated,12.02.2014(File Ref.No.13725/GA - IV - J - SO/2013/CU)

6. U.O.No. 5180/2014/Admn dated 29.05.2014.

7. Item no. 1 of the minutes of the meeting of the Steering Committee on CBCSS UG held on 28.06.2014 and 05.09.2014

8.Orders of the Hon'ble Vice Chancellor on 29.07.2014 and 22.09.2014.

9. Item No. a.45 in the minutes of the LXXII meeting of Academic Council held on 15.01.2015.

10. Item No. III-8 in the minutes of the Senate Meeting held on 28.03.2015.

11. Item No. 1 C and V in the minutes of the meeting of the Steering Committee on CBCSS UG 2014 held on 11.06.2015.

12.U.O.No. 9074/2015/Admn Dated, 24.08.2015

13. U.O.No. 9347/2015/Admn Dated, 04.09.2015

14. Item No.19 in the minutes of the LXXIII meeting of the Academic Council held on 11.07.2015

15. Circular No.53986/GA - I - F 1/2015/Admn dated 04.08.2015

ORDER

Hridayakumari Committee appointed by the Govt. of Kerala, in its report submitted to the Govt. has suggested changes/reforms on the Choice Based Credit Semester System , in the Universities in Kerala.

The Executive Council of Kerala State Higher Education Council considered Hrdayakumari Committe Report and made 11 recommendations for consideration by the Universities in Kerala ,as per paper read as (2).

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File Ref.No.1847/GA - IV - E1/2013/CU

UNIVERSITY OF CALICUT

Abstract

Faculty of Engineering - B.Tech Degree Course Regulations - 2009 Scheme - Modification in Clause 21(b) and addition of a new sub- Clause (e) to Clause 21 of Classification of Successful Candidates - approved - implemented - ratified by the Academic Council - orders made absolute- Orders issued.

G & A - IV - E

U.O.No. 1808/2014/CU Dated, Calicut University.P.O, 24.02.2014

Read:-1. U.O.No. 1423/2013/CU dated: 02.05.2013.
2.Minutes of the meeting of the Academic Council held on 30.07.2013(item No.a.28).

ORDER

Vide paper read 1 above, orders were issued for the following,subject to the ratification of the Academic Council :-
(a) To modify Clause 21 (b) of B.Tech Degree Course Regulations - 2009 Scheme to read as:-

"A candidate who qualifies for the degree, passing all the subjects of the eight semesters within 5 academic years after the commencement of his/her course of study and secures not less than a CGPA of 6.50 of all the semesters shall be declared to have passed the B.Tech. degree examination in first Class."

(b) To add a new Sub - Clause (e) to Clause 21 of the B.Tech Course Regulations - 2009 Scheme to read as :-

"To award a Certificate of Excellence to top 5% of the number of students in eighth semester of each branch in the University, based on their aggregate CGPA of the B. Tech. course. These students should have passed all the subjects of B. Tech. course within 4 academic years after the commencement of their course of study; for lateral entry students this maximum period for passing the course shall be 3 years."

Vide paper read 2 above, the Academic Council vide item III a.28, has resolved to ratify the action taken by the Vice Chancellor in having approved and accorded sanction for implementing the above item (item No. 14) of the minutes of the meeting of the Board of Studies in Engineering (UG) held on 05.01.2013.

The University Order read 1st above is therefore made absolute.

Orders are issued accordingly

Muhammed S
Deputy Registrar

To

The Principals of all affiliated Engineering colleges
2.The Controller of Examinations
Copy to :- PS to VC/ PA to PVC/ PA to Regr/ DR/AR-B.Tech branch/EX Sn/ EG 1 Sn/B.TechTabulation Sn/System Administrator (With a request to upload the U.O. in the University Website)/Chairman, BOS in Engineering (UG)/ Dean, F/Engg/Enquiry/S

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Section Officer

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File Ref.No.1847/GA - IV - E1/2013/CU

UNIVERSITY OF CALICUT

Abstract

Faculty of Engineering - B.Tech Degree Course Regulations - 2009 Scheme - Modification in Clause 21(b) and addition of a new sub- Clause (e) to Clause 21 of Classification of Successful Candidates - approved - implemented - ratified by the Academic Council - orders made absolute- Orders issued.

G & A - IV - E

U.O.No. 1808/2014/CU Dated, Calicut University.P.O, 24.02.2014

Read:-1. U.O.No. 1423/2013/CU dated: 02.05.2013.
2.Minutes of the meeting of the Academic Council held on 30.07.2013(item No.a.28).

ORDER

Vide paper read 1 above, orders were issued for the following,subject to the ratification of the Academic Council :-
(a) To modify Clause 21 (b) of B.Tech Degree Course Regulations - 2009 Scheme to read as:-

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"To award a Certificate of Excellence to top 5% of the number of students in eighth semester of each branch in the University, based on their aggregate CGPA of the B. Tech. course. These students should have passed all the subjects of B. Tech. course within 4 academic years after the commencement of their course of study; for lateral entry students this maximum period for passing the course shall be 3 years."

Vide paper read 2 above, the Academic Council vide item III a.28, has resolved to ratify the action taken by the Vice Chancellor in having approved and accorded sanction for implementing the above item (item No. 14) of the minutes of the meeting of the Board of Studies in Engineering (UG) held on 05.01.2013.

The University Order read 1st above is therefore made absolute.

Orders are issued accordingly

Muhammed S
Deputy Registrar

To

The Principals of all affiliated Engineering colleges
2.The Controller of Examinations
Copy to :- PS to VC/ PA to PVC/ PA to Regr/ DR/AR-B.Tech branch/EX Sn/ EG 1 Sn/B.TechTabulation Sn/System Administrator (With a request to upload the U.O. in the University Website)/Chairman, BOS in Engineering (UG)/ Dean, F/Engg/Enquiry/S

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B.Tech admission, as per Government Order. (Item No: 6 of the Minutes of the UG Board meeting held on 26.06.2013), vide paper read as 4 above.

Vide paper read as 5 above, the Academic Council at its meeeting held on 30.07.2013, approved the minutes of the Faculty of Engineering , vide item No. IIF.

Sanction has therefore been accorded to incorporate the following amendment to the B.Tech course Regulations (2009 Scheme), Clause 1, Conditions of admissions with effect from 2013 admissions onwards;

"In addition to the existing Clause 1, conditions of admissions, the following provisions are incorporated to the Regulations as Clause 1 (a) - Candidates who have passed Higher Secondary Examination, with 60% aggregate marks in Physics and Chemistry put together and 45% marks in Mathematics are also eligible for admission. For SEBC candidates and PD candidates 55% for the optional subjects put together and 40% for Mathematics".

The U.O. read 1& 2 above, stand modified to this extent.

Orders are issued accordingly.

Muhammed S
Deputy Registrar

To

The Principals of all affiliated Engineering colleges.

Copy to:-

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File Ref.No.20410/GA - IV - E1/2013/CU

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Abstract

Faculty of Engineering - B.Tech Degree Course - Regulations - Clause 1 - Conditions for Admission of the course Regulations - amended - approved - implemented - orders issued.

UNIVERSITY OF CALICUT (G & A - IV - E)

U.O.No. 3810/2013/CU Dated, Calicut University.P.O, 09.09.2013

Read:-1. U.O. No. GA1/E1/4228/08 dt. 26.06.2009

2. U.O. No. GAIV/E1/6977/2010 dt. 23.11.2010.

3. G.O. (MS) No. 214/2013/H.Edn dt. 30.05.2013 Higher Education (G) Department.

4. Minutes of the meeting of the Board of Studies in Engineering held on 26.06.2013 (Item No. 6)

5.Minutes of the Faculty of Engineering held on 24.07.2013 (Item No. 2 & 7)

6.Minutes of the Academic Council held on 30.07.2013 (Item No. IIF)

ORDER

As per paper read as 1 above, orders were issued for implementing the regulations for the B.Tech Degree course with effect from 2009 admission,

Vide paper read as 2 above, orders were issued for amending the eligibility criteria in Clause 1 conditions for admissions of the B.Tech course regulations implemented with effect from 2009 admissions.

Vide paper read as 4 above, the Board of Studies in Engineering (UG), at its meeting held on 26.06.2013 , vide item No. 6, considered the G.O.(MS)No.214/2013/H.Edn dt. 30.05.2013, issued from the Higher Education (G) Department with regard to the admission to Professional Courses KEAM-13 and resolved to amend the B.Tech course Regulations (2009 Scheme), Clause 1, Conditions for admissions from 2013 admissions onwards in accordance with the Government Order read as 3 above. Accordingly in addition to the existing Clause 1, conditions of admissions, the following provisions are hereby incorporated to the B.Tech course Regulations, 2009 Scheme with effect from 2013 admissions onwards as Clause 1 (a) " The Candidates who have passed Higher Secondary Examination, with 60% aggregate marks in Physics and Chemistry put together and 45% marks in Mathematics are also eligible for admission.For SEBC candidates and PD candidates 55% for the optional subjects put together and 40% for Mathematics".

The Faculty of Engineering at its meeting held on 24.07.2013, vide item No. 7, approved the above decision of the Board of Studies in Engineering (UG) regarding the revision of eligibility criteria for

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The Vice Chancellor, considering the exigency and exercising the powers of the Academic Council, has approved and accorded sanction to implement the above resolution of the Board minutes (item No.14), approved by the Faculty of Engineering, subject to the ratification of the Academic Council, vide paper read as (4) above.

Sanction has therefore been accorded to implement the following:-

(a) To modify Clause 21 (b) of B.Tech Degree Course Regulations - 2009 Scheme to read as:-

"A candidate who qualifies for the degree, passing all the subjects of the eight semesters within 5 academic years after the commencement of his/her course of study and secures not less than a CGPA of 6.50 of all the semesters shall be declared to have passed the B.Tech. degree examination in first Class."

AND

(b) To add a new Sub - Clause (e) to Clause 21 of the B.Tech Course Regulations - 2009 Scheme to read as :-

"To award a Certificate of Excellence to top 5% of the number of students in eighth semester of each branch in the University, based on their aggregate CGPA of the B. Tech. course. These students should have passed all the subjects of B. Tech. course within 4 academic years after the commencement of their course of study; for lateral entry students this maximum period for passing the course shall be 3 years."

The U.O. vide paper read as (1) above, stands modified to this extent.

Orders are issued accordingly

sd/-
Shanawaz T.P
Assistant Registrar

To

1 The Principals of all affiliated Engineering colleges
2.The Controller of Examinations

Copy to :-

PS to VC/ PA to PVC/ PA to Regr/ DR/AR-B.Tech branch/EX Sn/ EG 1 Sn/ B.TechTabulation Sn/System Administrator (With a request to upload the U.O. in the University Website)/Chairman, BOS in Engineering (UG)/ Dean, F/Engg/ Enquiry/SF

Forwarded / By Order

Section Officer

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File Ref.No.1847/GA - IV - E1/2013/CU

UNIVERSITY OF CALICUT

Abstract

Faculty of Engineering - B.Tech Degree Course Regulations - 2009 Scheme - Modification in Clause 21(b) and addition of a new sub- Clause (e) to Clause 21 of Classification of Successful Candidates - approved - implemented - Orders issued.

UNIVERSITY OF CALICUT (G & A - IV - E)

U.O.No. 1423/2013/CU Dated, Calicut University.P.O, 02.05.2013

Read:-1U.O. No. GA1/E1/4228/08 dt. 26.06.2009.

2 Minutes of the meeting of the Board of Studies in Engineering (UG) held on 05.01.2013.(Item No. 14)

3 Minutes of the meeting of the Faculty of Engineering held on 05.01.2013.(ItemNo.1)

4.Orders of the Vice Chancellor in the file of even No. dt.26.03.2013.

ORDER

As per paper read as (1) above, orders were issued implementing the Regulations, Scheme and Syllabus of Combined First and Second Semester B.Tech Regular and Part-Time Degree Courses with effect from 2009 admission onwards.

Vide paper read as (2) above, the Board of Studies in Engineering (UG) at its meeting held on 05.01.2013, vide item no. 14, resolved the following:-

(a) To modify Clause 21 (b) of B.Tech Degree Course Regulations - 2009 Scheme as:-

" A candidate who qualifies for the degree, passing all the subjects of the eight semesters within 5 academic years after the commencement of his/her course of study and secures not less than a CGPA of 6.50 of all the semesters shall be declared to have passed the B.Tech. degree examination in first Class."

(b) To add a new Sub- Clause (e) to Clause 21 of B.Tech Degree Course Regulations - 2009 Scheme as:-

"To award a Certificate of Excellence to top 5% of the number of students in eighth semester of each branch in the University, based on their aggregate CGPA of the B. Tech. course. These students should have passed all the subjects of B. Tech. course within 4 academic years after the commencement of their course of study; for lateral entry students this maximum period for passing the course shall be 3 years."

The above resolution of the Board was unanimously approved by the Faculty of Engineering at its meeting held on 05.01.2013, vide paper read as (3) above.

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Sanction has therefore been accorded to implement the modification of regulation of 2009 admission – clause 15 – Registration for each semester as –

"The CGPA requirement of 2.5, prescribed in section 15 of the course regulation of B.Tech Engineering Degree Course (with effect from 2009 admission), for registering 5th and 7th semester is reduced to a CGPA of 2.0"

Orders are issued accordingly.

Sd/-
DEPUTY REGISTRAR(G&A IV)
For REGISTRAR

To

The Principals of all affiliated Engineering Colleges

Copy to:

PS to VC/PA to Registrar/PA to CE/ DR B.Tech branch/
A.R-B.Tech branch/Chairman Board of Studies in Engineering (UG)/
Enquiry/Dean, Faculty of Engineering/EX section/
Entrance Commissioner, Govt. of Kerala with CL/
SA(With a request to upload in the University website).

Forwarded/By Order

SECTION OFFICER

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UNIVERSITY OF CALICUT

(Abstract)

Faculty of Engineering – B.Tech Degree Course Regulations – clause 15 – Registration for each semester – modified - minimum CGPA reduced to 2.0 – Orders – issued.

GENERAL & ACADEMIC BRANCH-IV 'E' SECTION

No. GA IV/E1/6977/2010 Dated, Calicut University PO, 27.01.2011

Read: 1. U.O.No.GAI/E1/4228/08 dated 26.06.2009.
2. Representation from the convenor Technos , dated 12.10.2010.
3. Minutes of the meeting of the Board of Studies in Engineering (UG) held on 28.10.2010 (Item No.1).
4. Minutes of the meeting of the Academic Council held on 15.11.2010 (Item No.1.10)

ORDER

As per U.O. read as 1st above, the regulation for the B.Tech Degree Course was implemented with effect from 2009 admission, clause 15 – Registration for each semester states that –

"A candidate will not be permitted to register for the 5th semester class if at the time of registration of 5th semester he/she has not secured a minimum CGPA of 2.5, considering the marks of combined 1st and 2nd semesters. Similarly, a candidate will not be permitted to register for the 7th semester class if at the time of registration of 7th semester he/she has not secured a minimum CGPA of 2.5, considering the marks upto fourth semester. He/She can be permitted to register with the subsequent batch as and when he/she satisfies the eligibility condition".

Vide paper read 2nd above, the representation from the convenor Technos dated 12.10.2010 regarding the year out and continuation of their studies with 2009 batch was considered by the Board of Studies in Engineering (UG) held on 28.10.2010.

As per paper read 3rd above, the Board vide item No.1, recommended that the CGPA requirement of 2.5, prescribed in section 15 of the course regulation of B.Tech Engineering Degree Course (with effect from 2009 admission) for registering 5th and 7th semester is reduced to a CGPA of 2.0.

As per paper read 4th above, the meeting of Academic Council held on 15.11.2010, approved the decision of the Board of Studies in Engineering (UG) held on 28.10.2010, vide item No.1.10.

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Contd.....(2)

"Candidates for admission to the B.Tech. Engineering degree course shall be required to have passed the Higher Secondary Examination of State Board of Kerala or examinations recognized equivalent by any Universities of Kerala, with 50% marks in Mathematics and **50% marks in Mathematics, Physics and Chemistry/Bio-technology/Computer Science/Biology put together.** Candidates, belonging to Socially and Educationally Backward classes with a total family annual income not exceeding the limit notified by the Government of Kerala from time to time, need only 45% marks in Mathematics and 45% marks in **Mathematics, Physics and Chemistry/Bio-technology/Computer Science/Biology put together.** Candidates belonging to Scheduled Caste and Scheduled Tribe need only a pass in the qualifying examination".

Orders are issued accordingly.

Sd/-
DEPUTY REGISTRAR (G&A-IV)
For REGISTRAR

To

The Principals of all affiliated Engineering Colleges.

Copy to:

The Entrance Commissioner, Government of Kerala with CL/
PA to Registrar/PS to VC/PA to CE/DR (B.Tech Branch)/
Ex Section/Chairman, Board of Studies Engineering (UG)/
Enquiry/Dean, Faculty of Engineering/G&A I 'G' Sn/
G&A I 'A' Sn/SF/FC

Forwarded/By Order

SECTION OFFICER

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UNIVERSITY OF CALICUT

Abstract

Faculty of Engineering - B.Tech Degree Course – Regulations – clause I – conditions for Admission of course regulations – modified - Orders issued.

GENERAL AND ACADEMIC BRANCH – IV 'E' SECTION

GAIV/E1/6977/2010 Calicut University. P.O., Dated: 23-11-2010.

Read: 1. U.O. No. GA I/E1/4228/08 dated 26.06.2009.
2. Minutes of the meeting of the Board of Studies in Engineering (UG) held on 28-10-2010 (item No.15)
3. Minutes of the meeting of the Academic Council held on 15.11.2010 (item No.1-10)

ORDER

As per University Order read as first above, the regulations for the B.Tech Degree Course with effect from 2009 admission clause (1) – conditions for admission states that

"Candidates for admission to the B.Tech. Engineering degree course shall be required to have passed the Higher Secondary Examination of State Board of Kerala or examinations recognized equivalent by any Universities of Kerala, with 50% marks in Mathematics and 50% marks in Physics, Chemistry, and Mathematics put together. Candidates, belonging to Socially and Educationally Backward classes with a total family annual income not exceeding the limit notified by the Government of Kerala from time to time, need only 45% marks in Mathematics and 45% marks in Physics, Chemistry and Mathematics put together. Candidates belonging to Scheduled Caste and Scheduled Tribe need only a pass in the qualifying examination".

As per paper read (2) above, the meeting of Board of Studies in Engineering (UG) held on 28.10.2010 recommended to modify Clause (1) of the regulations for the B.Tech course as follows:

"Candidates for admission to the B.Tech. Engineering degree course shall be required to have passed the Higher Secondary Examination of State Board of Kerala or examinations recognized equivalent by any Universities of Kerala, with 50% marks in Mathematics and **50% marks in Mathematics, Physics and Chemistry/Bio-technology/Computer Science/Biology put together.** Candidates, belonging to Socially and Educationally Backward classes with a total family annual income not exceeding the limit notified by the Government of Kerala from time to time, need only 45% marks in Mathematics and 45% marks in **Mathematics, Physics and Chemistry/ Bio-technology/Computer Science/Biology put together.** Candidates belonging to Scheduled Caste and Scheduled Tribe need only a pass in the qualifying examination".

As per paper read (3) above, the meeting of Academic Council held on 15.11.2010 approved the decision of the Board of Studies in Engineering held on 28.10.2010 vide item No.1.10.

Sanction has therefore been accorded for implementing the above modifications of regulations of 2009 admission – clause (1) – conditions for admission as

(Contd....2)

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UNIVERSITY OF CALICUT

(Abstract)

Faculty of Engineering – B Tech – Regulation Scheme and Syllabi of Combined First and Second Semester B.Tech Regular and Part-Time Degree Courses from 2009 Admission onwards – Implemented - orders issued.

GENERAL AND ACADEMIC BRANCH – I 'E' SECTION

No. GA I/E1/4228/08 Dated, Calicut University. P.O., 26.06.2009

Read :- 1)The Minutes of the meeting of Board of Studies in Engineering (UG) held on 24.03.2009.
2) The Minutes of the meeting of Faculty of Engineering held on 11.05.2009 Item No. 1.
3) The Extract of item No. II N of the minutes of the meeting of the Academic Council held on 14.05.2009.

ORDER

As per paper read 1st above, the Board of Studies in Engineering (UG) prepared the Regulations Scheme and Syllabi of Combined First and Second Semester B.Tech Regular and Part-Time Degree Courses from 2009 admission onwards.

As per paper read (2) above Faculty of Engineering approved the minutes of the Board of Studies in Engineering (UG) held on 24.03.2009 and the meeting of the Academic Council held on 14.05.2009 approved the same as per paper read 3rd above.

Sanction has therefore been accorded for implementing the Regulations, Scheme and Syllabus of Combined First and Second Semester B.Tech Regular and Part-Time Degree Courses with effect from 2009 admission onwards.

Orders are issued accordingly.
(Course, Regulations, Appended)

Sd/-
DEPUTY REGISTRAR (G&A-I)
For REGISTRAR.

To

The Principal of all Affiliated Engineering Colleges.
(B Tech Scheme and Syllabus will be available in University Website)
Copy to : The Controller of Examinations/ Dean, Faulty of Engineering/
Chairman, BOS in Engg(UG)/Ex Sn/EG I Sn/SF/FC
/System Administrator with a request to upload the Syllabus in the website.)

Forwarded/By Order

Sd/-
SECTION OFFICER

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University of Calicut

Course Regulations

of

B.Tech. – Engineering Degree Courses

(With effect from 2014 admissions)



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1. Conditions for Admissions

Candidates for admission to the B.Tech: Engineering degree course shall be required to have passed the Higher Secondary Examination, Kerala, or Examinations recognized as equivalent thereto, with 50% marks in Mathematics separately, and 50 % marks in Mathematics, Physics and Chemistry put together. However candidates who have obtained 45% marks in Mathematics separately and with 60% aggregate marks in Physics and Chemistry put together are also eligible for admission. (In case, the candidate has not studied Chemistry, the marks obtained in Computer Science shall be considered. In case, the candidate has not studied Chemistry and Computer Science, the marks obtained in Biotechnology shall be considered. In case, the candidate has not studied Chemistry, Computer Science and Biotechnology, the marks obtained in Biology shall be considered).

Candidates, belonging to Socially and Educationally Backward classes (SEBC) with a total family annual income not exceeding the limit notified by the Government of Kerala from time to time, need only 45% marks in Mathematics and 45% marks in Physics, Chemistry, and Mathematics put together. However, Socially and Educationally Backward Classes (SEBC) / Persons with Disabilities (PD) category candidates who have obtained 40% marks in Mathematics separately and with 55% aggregate marks in optional subjects are also eligible for admission. Candidates belonging to scheduled caste and scheduled tribe need only a pass in the qualifying examination. The amendments in qualifications for admission as notified by the Government of Kerala/ Commissioner for Entrance Examinations, Kerala from time to time will also be applicable for the admission to B.Tech Degree Course.

Candidates have to qualify the State Level Entrance examination conducted by the Commissioner of Entrance Examinations or State level/National level Entrance Examination approved by the Government of Kerala as equivalent. They shall also satisfy the conditions regarding age and physical fitness as prescribed by the University of Calicut.

2. Admission to Diploma Holders

A candidate who has a diploma in engineering awarded by the State Board of Technical Examinations or an examination recognized equivalent by the State Board of Technical Education after undergoing regular course of 3 years in an institute approved by AICTE, securing a minimum of 50% marks in the diploma examination shall be eligible to be admitted to the first year B.Tech. programme of the University of Calicut.

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(hereafter, the University, unless otherwise specified) if he/she has qualified the entrance examination conducted by the Commissioner of Entrance Examinations or State level/National level Entrance Examination approved by the Government of Kerala as equivalent. Diploma holders from other states should produce an Equivalence certificate from the Controller of Technical Exams, Kerala/State Board of Technical Examinations for admission to B.Tech course.

Diploma holders with minimum pass marks in diploma in engineering are also eligible for admission to the 3rd semester (regular full-time batch) engineering degree course (B.Tech.) under the lateral entry scheme provided they qualify the Entrance Examination conducted for the lateral entry scheme by the state Government. These students are not required to study any deficiency papers of the combined first and second semesters. Admission of all candidates under the lateral entry scheme shall be completed before the commencement of 3rd semester classes.

Part-time Degree Courses are offered for students possessing diploma in Engineering/Technology awarded by the State Board of Technical Education or equivalent to acquire B-Tech Degree. The Courses extend over a period of four years. The classes will be conducted normally in the evening on all working days and on holidays if necessary, in accordance with the syllabi of the University. Candidates should be admitted only to the branch of Engineering in which they have obtained the diploma. However certain branches of diploma courses are considered equivalent to certain branches for admission to the part-time B-Tech Courses. The details of which are given in Annexure.

Note: Criteria for selection and method of admission to merit/management seats for Engineering degree courses (admissions to the first year, under lateral entry and part-time schemes) conducted by Government/Aided/Self-financing colleges affiliated to University of Calicut shall be governed by the rules/regulations framed by the Commissioner of Entrance Examinations or other competent authority appointed by the Government of Kerala, in consultation with the University and without contravening with the stipulation of the University Grants Commission (UGC) or All India Council for Technical Education (AICTE). In all matters related to selection and admission, the decisions of the University shall be final. The students admitted by affiliated colleges violating the above regulations will not be eligible for registration to University Examinations and contravention of the regulations shall lead to withdrawal/suspension of affiliation.

3. Subjects of Study

The subjects of study, both theory and practical, shall be in accordance with the prescribed scheme and syllabi of each branch of study.

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4. Duration of the Course

The course for the B.Tech degree shall extend over a period of four academic years comprising of eight semesters. The first and second semesters shall be combined; the scheme and syllabi for combined first and second semesters ($S_{1\&2}$) will be common for all branches of study. The maximum duration permissible for taking the B.Tech. degree course is fixed as 8 years. Medium of instruction, examination, and evaluation shall be English.

Classes of combined first and second semesters shall be started latest by 1st August in all affiliated engineering colleges of University of Calicut; however admission to first year shall be completed by 31st August.

The minimum number of working days in combined first and second semesters shall be 150 days. In 3rd to 8th semesters, there shall be minimum 75 working days.

5. Branches of Study

1. Civil Engineering (CE)
2. Mechanical Engineering (ME)
3. Electrical and Electronics Engineering (EE)
4. Chemical Engineering (CH)
5. Production Engineering (PE)
6. Electronics and Communication Engineering (EC)
7. Instrumentation and Control Engineering (IC)
8. Applied Electronics and Instrumentation Engineering (AI)
9. Biotechnology (BT)
10. Biomedical Engineering (BM)
11. Computer Science and Engineering (CS)
12. Information Technology (IT)
13. Printing Technology (PT)
14. Automobile Engineering (AM)
15. Aeronautical Engineering (AN)
16. Mechatronics Engineering (MT)

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Pin - 680 597, Kerala

6. Course Calendar

The course calendar, published by the University in advance, should be strictly followed for ensuring timely conduct of examinations and publication of results. The course calendar should be prepared by convening a meeting of Principals of all affiliated engineering colleges. This meeting should be convened before the commencement of each semester. Semester classes should be started and completed on the stipulated dates at all affiliated engineering colleges as notified by the University.

Regular classes at the affiliated engineering colleges should be suspended during the period of centralised valuation camp. Faculty members from affiliated engineering colleges who are assigned duty by the University for Centralised Valuation Camp should strictly attend the valuation at the specified centre; Head of each institution should ensure this. Faculty members appointed for Centralised Valuation Camp should necessarily have minimum two years teaching experience at engineering degree level.

Within a week after the commencement of classes of each semester, Head of each Institution should forward the list of faculty members working in the college along with their qualification and years of teaching experience, to the University. This is a mandatory requirement which should be strictly followed by Head of each Institution. Head of each Institution shall ensure the availability of sufficient number of regular faculty members having experience and qualifications (as per AICTE guidelines) in the institution.

7. Electives

All students shall choose four elective subjects, two each in the seventh and eighth semesters from a set of elective subjects prescribed in the syllabus and offered by the institution. There should be at least 25% students of the class/batch for an elective subject to be offered.

New electives may be introduced according to the needs of emerging fields in technology. The name of the elective and its syllabus should be approved by the University before the subject is offered as an elective.

8. Assessment of Students

Assessment of students for each subject will be done by internal continuous assessment and end semester examinations. Internal assessment shall be conducted throughout the semester. It shall be based on internal examinations, assignments (such as home work, problem solving, group discussions, quiz, literature survey, seminar, term-project, software exercises, etc.) as decided by the faculty handling the course, and regularity in the class.

End-semester examinations of theory subjects will be conducted by the University. All End semester practical examinations will be conducted at institution level for all

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Government/Govt. aided engineering colleges. For all self financing engineering colleges, practical examinations will be conducted by the University. External examiners have to be appointed compulsory for the conduct of practical examinations in all self financing colleges. There shall not be any End-semester examinations for practical subjects in combined first and second semesters. End-semester examinations of combined first and second semesters and 3rd to 6th semesters will be conducted only once in a year. Supplementary and improvement candidates will have to appear for the end-semester examinations along with regular students. However, end-semester examinations of 7th & 8th semesters will be conducted once in every semester. Head of institution should take necessary steps to prevent any malpractices in the end-semester examinations. If any such instances are detected, they should be reported to the University without any delay.

Internal assessment marks of all theory and practical subjects should have a class average limited to 80%. If the class average of internal assessment marks of any theory subject is greater than 80%, it should be normalized to limit it to 80%. If the class average is not greater than 80%, absolute marks should be given.

For practical subjects, end-semester examination marks of the candidates who have secured 40% or more marks should have a class average limited to 80%. If the class average of end-semester examination marks of practical subjects is greater than 80%, it should be normalized to limit the class average to 80%. If it is not greater than 80%, absolute marks should be given.

All the students in the nominal roll of the class on the closing day of semester should be considered for normalization of internal marks.

Normalized internal assessment marks of theory and practical subjects, should be published in the college 10 days before sending it to the University so as to enable the students to report any corrections.

(a) Assessment in Theory Subjects

The marks allotted for internal continuous assessment and end-semester university examinations shall be 50 marks and 100 marks respectively with a maximum of 150 marks for each theory subject.

The weightage to award internal continuous assessment marks should be as follows:

Test papers (minimum two)	– 60%
Assignments (minimum two) such as home work, Problem solving, group discussions, quiz, Literature survey, seminar, term-project, Software exercises, etc.	– 30%
Regularity in the class	– 10%

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It is permitted to have variation in this pattern of internal continuous assessment for subjects involving drawing, design, etc.

Full credit for regularity in the class can be given only if the candidate has secured minimum 90% attendance in the subject.

(b) Assessment in Practical Subjects

The marks allotted for internal continuous assessment and end-semester practical examinations shall be 50 marks and 100 marks respectively.

In Government/ Govt. aided institutions, Head of the institution shall appoint two examiners for each practical subject in order to conduct end-semester examinations for practical subjects. In self financing institutions, the University will appoint internal and external examiners for the conduct of practical examinations. These examiners should necessarily have a minimum of one year teaching experience at engineering degree level.

Award of marks in the end-semester practical examinations (except Project) should be as follows:

Fair record	– 10%
Viva voce	– 20%
Procedure and tabulation form, Conducting experiment, results and inference	– 70%

No candidate will be permitted to attend the end-semester practical examinations unless he/she produces certified record of the laboratory.

Strict measures will be taken by the University to monitor the laboratory facilities, laboratory experiments conducted, standard of end-semester practical examinations, etc. in every affiliated engineering college. In this regard, an expert team comprising of at least three subject experts from government/government-aided engineering colleges from within/outside the University shall be formulated to assess these aspects in affiliated engineering colleges. This expert team should visit each engineering college at least once in a semester and submit a detailed report to the University regarding the laboratory facilities, laboratory experiments conducted and standard of end-semester practical examinations in each college. It will be the responsibility of each Head of Institution to inform this expert team about the schedule of end-semester practical examinations at least two weeks in advance.

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9. Pattern of Questions for End-Semester Examinations of Theory Subjects

The question papers of end-semester examinations of theory subjects shall be able to perform achievement testing of the students in an effective manner. The question paper shall be prepared

(a) covering all sections of the course syllabus

(b) unambiguous and free from any defects/errors

(c) emphasizing knowledge testing, problem solving & quantitative methods

(d) containing adequate data/other information on the problems assigned

(e)) having clear and complete instructions to the candidates.

Duration of end-semester examinations will be 3 hours. The pattern of questions for theory subjects shall be as follows:

University Examination Pattern

PART A: Analytical/problem solving SHORT questions *8x 5 marks=40 marks*

Candidates have to answer EIGHT questions out of TEN. There shall be minimum of TWO and maximum of THREE questions from each module with total TEN questions.

PART B: Analytical/Problem solving DESCRIPTIVE questions *4 x 15 marks=60 marks*

Two questions from each module with choice to answer one question.

Weightage for categories such as problem solving, descriptive, drawing or programming questions shall be specified along with the syllabus of any subject, if necessary. Model question paper shall be prepared for each subject at the time of framing the syllabus. This same model question paper along with the syllabus must be sent to the question-paper setter every time for framing the questions. The model question paper shall be made available to students.

It is permitted to have an entirely different pattern of questions especially for subjects involving drawing, design, etc. However, the modified pattern to be followed shall be clearly specified along with the syllabus of the particular subject. All question paper setters should supplement the scheme and key for the evaluation

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10. Minimum for Pass

(a) A candidate who secures not less than 40% marks in a subject at the end-semester examinations **and** not less than 50% of the total marks assigned to the subject, shall be declared to have passed the examination in that subject.

OR

(b) A candidate who secures in end-semester examination itself, 40% of the total marks assigned to a subject shall also be declared to have passed the examination in that subject.

The total marks assigned to a subject in the above calculations is the sum of maximum marks assigned to the end-semester examination and maximum internal assessment marks of that subject. Candidates will be assigned grades according to the marks scored.

For Seminar, Project, and Viva Voce, the minimum for a pass shall be 50% of the total marks assigned to the respective examination.

If a candidate has passed all examinations of B.Tech. course (at the time of publication of results of eighth semester) except Viva-Voce in the eighth semester, a re-examination for the Viva-Voce should be conducted within two months after the publication of results. Each candidate should apply for this examination within one week after the publication of eighth semester results. If any candidate fails for seminar/project, the candidate has to re-register for the respective semester and can repeat seminar/project retaining the marks secured in other subjects in that semester.

11. Credit System

Each subject shall have a certain number of credits assigned to it depending upon the academic load and the nature and importance of the subject. The credit associated with each subject will be shown in the prescribed scheme and syllabi. Each course shall have an integer number of credits, which reflects its weightage.

12. Grading

The university shall award the letter grade to students based on the marks secured by them in both internal assessment and end-semester examinations taken together in the subjects registered. Each letter grade indicates a qualitative assessment of the student's performance and is associated with a specified number of grade points. The grading system along with the grade points for each grade, applicable to passed candidates is shown below. All passed candidate will be allotted a grade S, A, B, C, D, or E according to the total marks scored by him/her.

If a candidate does not pass a subject as per the conditions given in Section (9), he/she will be assigned an Unsatisfactory grade 'U' irrespective of his/her total marks. If a student does not pass a subject in two attempts, the maximum grade he/she can get is 'C'.

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when he/she passes the subject in any subsequent examination, whatever be the marks scored by him/her.

A student is considered to have completed a subject successfully and earned the credits if he/she secures a letter grade other than 'U' in that course. Letter grade 'U' has zero grade point and the candidate has to write the examination again to improve the grade. A student's performance is measured by the number of credits that he/she has earned and by the cumulative grade point average (CGPA) maintained by him/her..

Percentage of marks (rounded off to the nearest integer) scored by the passed candidates	**Corresponding Grade allotted**	**Grade Points**
91- 100	S	10
81-90	A	9
71-80	B	8
61-70	C	7
51-60	D	6
40-50	E	5

For converting CGPA to percentage of marks, the following formula can be used.

Percentage marks = (CGPA - 0.5) x 10.

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13. Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA)

a. A Semester Grade Point Average (SGPA) shall be computed for all the students for each semester, as follows:

$$SGPA = \sum_{i=1}^{n} \frac{C_i G_i}{C_i}$$

where, n is the number of subjects registered during the semester, C_i is the number of credits allotted to i^{th} subject as per the scheme, and G_i is the grade points corresponding to the grade awarded to the student for the subject.

b. A Cumulative Grade Point Average (CGPA) shall be computed for all the students at the end of each semester by taking into consideration their performance in the present and the past semesters as follows:

$$CGPA = \sum_{i=1}^{m} \frac{C_i G_i}{C_i}$$

where, m is the number of courses registered up to that semester, C_i is the number of credits allotted to i^{th} subject as per the scheme, and G_i is the grade points corresponding to the grade awarded to the student for the subject.

An up-to-date assessment of overall performance of a student is obtained by calculating CGPA. CGPA is weighted average of the grade points obtained in all the subjects registered by the students since he entered the B.Tech. course.

c. Both the SGPA and CGPA shall be rounded off to the second place of decimal and recorded as such for ease of presentation. Whenever the CGPAs are to be used for the purpose of determining the merit ranking in a group of students, only the rounded off values shall be made use of.

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14. Improvement

Candidates shall be allowed to improve the grade of any two theory subjects. This can be done only in the immediate subsequent chance. If the candidate gets more marks in the improvement chance, marks scored in the improvement chance will be considered for grading in the subject; otherwise marks scored in the first attempt will be retained. No candidate shall be permitted to improve the marks scored in practical examinations and internal continuous assessment.

15. Attendance

A candidate shall be permitted to appear for the end-semester examinations only if he/she satisfies the following requirements:

a. He/she must secure not less than 75% attendance in the total number of working hours in each semester.
b. He/she must earn a progress certificate from the head of the institution stating that he/she has satisfactorily completed the course of study prescribed in the semester as required by these regulations.
c. His/her conduct must be satisfactory

It shall be open to the Vice Chancellor to grant condonation of shortage of attendance on the recommendation of the head of the institution in accordance with the following norms.

- The shortage shall not be more than 10%
- Shortage upto 20% shall be condoned once during the entire course provided such shortage is caused by continuous absence on genuine medical grounds.
- Shortage shall not be condoned more than twice during the entire course.

Candidate who is not eligible for condonation of shortage of attendance shall repeat the semester.

Students are eligible for duty leave if they perform certain kinds of duties like representing the college/University in sports and games, etc. on recommendation from faculty members concerned, Head of Institution shall sanction duty leave for the period of absence. The maximum limit of duty leave that can be granted to a student during a semester is 10% of the total number of instructional hours engaged in that semester.

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.Application for duty leave should be submitted to the Head of Institution preferably before the duty is performed or within ten working days after returning from duty. If duty leave is sanctioned, the student shall meet the faculty members handling classes for him/her in that semester (within 2 weeks after returning from duty), and request them to mark duty leave granted in the record of attendance.

16 Registration for each Semester

Every candidate should register for all subjects of the end-semester examinations of each semester. A candidate who does not register will not be permitted to attend the end-semester examinations; he/she shall not be permitted to attend the next semester.

A candidate shall be eligible to register for any higher semester (i.e. 3rd semester onwards if he/she has satisfactorily completed the course of study and registered for the examination of the combined first and second semesters). A candidate shall be eligible to register for the fourth to eighth semester if he/she has satisfactorily completed the course of study and registered for the examination of the immediate previous semester. He/she should register for the semester at the start of the semester before the stipulated date. University will notify the starting and closing dates for each semester.

A pass in all subjects of combined first and second semesters is required for a student to become eligible for entry into the sixth semester, except for lateral entry students. A pass in all subjects of third and fourth semester would be mandatory for entry into eighth semester for all students. He/she can be permitted to register with the subsequent batch as and when he/she satisfies the eligibility condition.

As this rule for promotion is an academic prerequisite, no exemption should be granted in this case, whatever the causes. Head of institution should take necessary measures to implement this rule strictly.

A student can be transferred from one institution to another institution only in the beginning of 3rdsemester of the course, after the completion of admission process. No branch change will be allowed after the completion of admission process.

A Student who has temporarily discontinued his/her studies shall be permitted to rejoin the course if he/she has to discontinue the course based on medical grounds and he/she should produce the medical certificate issued by a Govt. medical officer specialised in the respective field while rejoining the course. Maternity leave as admissible by the University will be admissible to female students as per the norms of the University in vogue.

17. Additional Requirements for the degree

In addition to the requirement prescribed for the award of B.Tech. degree, each student must complete compulsory social service for a specified duration during 3rd to 7th semesters.

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of the course, A record is to be kept showing the details of social service activities undertaken and it should be approved by the Staff Advisor. Head of Institution should verify this compulsory requirement before permitting the student to register for the eighth semester.

Students are expected to undertake industrial training(s) of total 5 days minimum duration or industrial visits (to minimum 3 industries) for studying about the industries of importance to the branch concerned during 4th to 7th semester. Students may also undertake an educational tour of maximum 5 days duration between 5th and 8th semesters for visiting industries (at least three) of importance to the branch concerned. Faculty members shall accompany the students for the industrial visits/educational tour. Each student shall submit detailed bound report(s) of the training/visit/tour to the Head of Department within two weeks after the programme. These bound report(s), signed by the staff advisor or faculty in charge of tour/training/visit and by the head of department, shall also be brought during the final Viva-Voce. 10% of marks of Viva-voce in 8th semester shall be based on the industrial training/educational tour/ industrial visits/paper published by the candidate at national/international level.

18. Examination Monitoring Cell

Head of the each institution should formulate an Examination Monitoring Cell at the institution for supervising all examinations, especially the internal examinations. This cell, with a senior staff member as Convener, shall consist of minimum three members (one shall be a lady). A clerical staff having computer skills shall also be assigned for the examination monitoring cell.

The collective responsibilities of the examination monitoring cell are

(a) schedule all end-semester practical examinations as per the course calendar and inform the University two weeks in advance

(b) inform the University expert team (two weeks in advance) the schedule of all end-semester practical examinations.

(c) officiate as the examination squad to keep a vigil on all end-semester examinations.

If any malpractices are found/reported by invigilators, inform these to the Head of Institution along with a report about the incident. Head of Institution shall forward all such complaints to the University.

(d) prepare and forward the list of examiners for all end-semester practical examinations to the Head of institution for enabling him to issue appointment letters. Inform the University the list of examiners for practical examinations.

(e) after closing the end-semester examinations conducted at institution level of each semester, fill-up and return the check-list given by the University.

(f) schedule all examinations conducted as part of internal assessment of students.

(g) to receive any complaint from students regarding issues like out-of-syllabus questions, printing mistakes, etc. of end-semester examinations of theory and practical subjects. The cell

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shall investigate these complaints and if necessary forward it to university with specific comments.

(h) to receive any complaints from students regarding internal examinations, inquire such incidents, and give a report to the Head of Institution for necessary action.

(i) In general, to function as an extended wing of the office of the Controller of Examinations of the University, at institution level.

To conduct all the theory examinations, a Chief Superintendent and an Assistant Chief Superintendent should be appointed internally by the Head of Institution. At least one external Additional Chief Superintendent should be appointed by the University as Observer for conducting theory examinations in all affiliated Engineering Colleges, who shall be not below the rank of an Assistant Professor in a Government/Aided College or Assistant Registrar in the University.

19. Class Committee

Head of institution shall take necessary steps to form a class committee for each class at the start of classes of each semester. This class committee shall be in existence for the semester concerned. The class committee shall consist of the Head of Department, Staff Advisor of the class, a senior faculty member of the department, a faculty member from another department, and three student representatives (one of them should be a girl). There should be at least two meetings of the class committee every semester; it shall be the responsibility of the Head of Department to convene these meetings. The decisions of the Class Committee shall be recorded in a register for further reference. Each class committee will communicate its recommendations to the Head of Institution.

The responsibilities of the class committee are:

(a) to review periodically the progress and conduct of students in the class.

(b) to discuss any problems concerning any subjects in the semester concerned.

(c) to identify weaker students of the class and suggest remedial measures.

(d) to review teaching effectiveness and coverage of syllabus.

(e) discuss any other issue related to the students of the class.

20. Eligibility for the Degree

No candidate shall be eligible for the B.Tech. degree unless he has undergone the prescribed course of study for a period of not less than four academic years in an institution affiliated to the University of Calicut and has passed all subjects as per the prescribed syllabus.

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No candidate under lateral entry scheme shall be eligible for the B.Tech. degree unless he has undergone the prescribed course of study for a period of not less than three academic years in an institution affiliated to the University of Calicut and has passed all subjects of 3rd to 8th semesters as per the prescribed syllabus.

21. Classification of Successful Candidates

a. A candidate who qualifies for the degree, passing all the subjects of the eight semesters within 5 academic years after the commencement of his course of study and secures not less than a CGPA of 8.00 of all the semesters shall be declared to have passed the B.Tech. degree examination in First Class with Honours.

b. A candidate who qualifies for the degree, passing all the subjects of the eight semesters within 5 academic years after the commencement of his course of study and secures not less than a CGPA of 6.50 of all the semesters shall be declared to have passed the B.Tech. degree examination in First Class.

c. All other candidates who qualify for the degree passing all the subjects of the eight semesters and not covered as per Sections 21 (a) and (b) shall be declared to have passed the B.Tech. degree examination in second class.

d. Classification of the lateral entry student can be given based on the CGPA of 3rd to 8th semesters. The final mark-list of lateral entry students should indicate that (i) the student was admitted through lateral entry scheme (ii) classification is based on CGPA of 3rd to 8th semesters. He/she should have passed all the subjects of the 3rd to 8th semesters within 4 academic years after the commencement of the course of study.

e. A Certificate of Excellence will be issued to top 5% of the number of students in eighth semester of each branch in the University, based on their aggregate CGPA of the B. Tech. course. These students should have passed all the subjects of B. Tech. course within 4 academic years after the commencement of their course of study; for lateral entry students this maximum period for passing the course shall be 3 years. Based on the aggregate CGPA, top 5% of candidates in each branch shall be issued a certificate of excellence.

Name of the college where the candidate studied for the B.Tech. program shall be printed in each grade-card issued to the student. It may be indicated in each mark-list that the internal assessment marks of all subjects and end-semester examination marks of practical subjects are normalised.

22. Grievance Redressal Cell

Each college should setup a Grievance Redressal Cell with at least four faculty members to look into grievances of the students, pertaining to end semester examinations if any.

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23. Anti-Ragging Cell

Head of Institution shall take necessary steps to constitute anti-ragging committee and squad at the commencement of each academic year. The committee and the squad shall take effective steps as specified by the Honorable Supreme Court of India, to prevent ragging.

Notwithstanding all that has been stated above, the University has right to modify any of the above regulations from time to time as per University rules.

Annexure

Equivalency of Diploma Streams for Part-Time B.Tech. Admission

Sl. No.	Specialisation in Diploma	Branch Equated for B.Tech.Admission
1	Applied Electronics	Electronics and Communication Engineering
2	Electronics	
3	Medical Electronics	
4	Electronics and Avionics	
5	Telecommunication Technology	
6	Electronics and Instrumentation	
7	Electronics and Medical	
8	Electronics Production Technology	
9	Medical Instrumentation	
10	Power Electronics	
11	Biomedical Engineering	
12	Civil	Civil Engineering
13	Architecture	
14	Quantity Survey and Construction	
15	Mechanical	Mechanical Engineering
16	Automobile	
17	Tool and Die	
18	Wood and Paper Technology	
19	Computer Engineering	Computer Science and
20	Computer Application and Business	
21	Computer Hardware Maintenance	
22	Information Technology	
23	Electrical	Electrical and Electronics
24	Instrument Technology	

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UNIVERSITY OF CALICUT

(Abstract)

Faculty of Engineering – Scheme & syllabus of M.Tech in Computer Science& Engineering – Implemented- with effect from 2009 admission onwards - Orders Issued.

GENERAL AND ACADEMIC BRANCH IV E Section

GAIV/E1/1894/2003 Dated, Calicut University.P.O., 06-08-2010

Read:- 1) Minutes of the meeting of Board of Studies in Engineering (P.G) held on 10.12.2009 and
28.01.2010.
2) Minutes of the meeting of Academic Council held on 03.07.2010. item. II A.
3) Minutes of the Syndicate held on 17.07.2010, item 2010. 483.
4) Order of Vice Chancellor dt. 31.07.2010 in the file of even No.

ORDER

As per paper read 1st, the BOS in Engineering (P.G) had entrusted a Committee Consisting of

(a) K.R.Chandrasekharan Pillai, Professor, CSE Department, N.S.S College of Engineering,
Palakkad.
(b) Dr. R.Vijayakumar, CSE Department, N.S.S College of Engineering, Palakkad.
(c) T.Ambika Devi Amma, CSE Department, Assistant Professor, N.S.S College of Engineering, Palakkad.
(d) Hellen.K.J CSE Department, Government Engineering College, Thrissur.

For the preparation of syllabi for M.Tech in Computer Science and Engineering to implement
for the year 2010-2011 admission and the committee submitted the fair copies of the syllabus of M.Tech in Computer Science & Engineering.

As per the paper read 2nd, the Academic Council at its meeting held on 03.07.2010 has approved the minutes of the meeting of the B.O.S Engineering (P.G) held on 10.12.2009 and 28.01.2010 for implementing the syllabi of M.Tech in Computer Science and Engineering from 2010-2011 admission onwards.

As per the paper read 3rd, the Syndicate considered the question of approving the syllabus for M.Tech in Computer Science, 2009 batch and resolved that the syllabus for M.Tech Computer Science approved by the Academic Council meeting held on 03.07.2010 be made applicable to 2009 batch also.

Considering the matter, Vice Chancellor has ordered on 31.07.2010 to implement this resolution of the syndicate and also ordered to report the matter to Academic Council.

Orders are therefore issued implementing the appended scheme & syllabus of M.Tech. in Computer Science & Engineering from 2009 admission onwards.

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Orders are issued accordingly.

Sd/-
DEPUTY REGISTRAR (G & A-IV)
For REGISTRAR

To

The Principals of all affiliated
Engineering Colleges where M.Tech. in
Computer Science & Engineering is offered.

Copy to:

PS toVC / PA to Reg./ PA to CE/ DR ; AR - B.Tech Branch, PRO,
SF / FC./GAI / A Sn.

Forwarded / By Order

Sd/-
SECTION OFFICER

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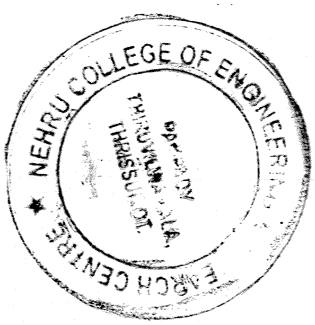
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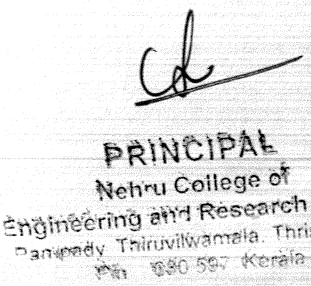
UNIVERSITY OF CALICUT

M.Tech. DEGREE COURSE
COMPUTER SCIENCE AND ENGINEERING

Curricula, Scheme of Examinations and Syllabi
(With effect from 2009 admissions)

(As per order no. GA IV/E1/1894/2003 dated 06-08-2010.)





Scheme of M.Tech Programme in Computer Science and Engineering

Semester I

Course Code	Subject	Hours/week			Marks		Total marks	Sem-end exam duration - Hrs	Credits
		L	T	P/D	Internal	Sem-end			
MCS10 101	Advanced Mathematical Structures	3	1	0	100	100	200	3	4
MCS10 102	Operating system Design	3	1	0	100	100	200	3	4
MCS10 103	Database Design	3	1	0	100	100	200	3	4
MCS10 104	Compiler Design	3	1	0	100	100	200	3	4
MCS10 105	Elective I	3	1	0	100	100	200	3	4
MCS10 106(P)	Seminar I	0	0	2	100	0	100	-	2
MCS10 107(P)	Advanced Software Lab	0	0	2	100	0	100	-	2
TOTAL		15	5	4	700	500	1200		24

Elective I

MCS10 105 (A) COMPUTATIONAL INTELLIGENCE
MCS10 105 (B) OPTICAL COMMUNICATION
MCS10 105 (C) GAME THEORY
MCS10 105 (D) QUANTUM COMPUTING

Note: Remaining 6 hours / week is meant for departmental assistance by students
L-Lecture T-Tutorial P-Practical

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Semester – II

Course Code	Subject	Hours/week			Marks		Total	Sem-end exam duration - Hrs	Credits
		L	T	P	Internal	Sem-end			
MCS10 201	Digital Communication Techniques	3	1	0	100	100	200	3	4
MCS10 202	Algorithms and Complexity	3	1	0	100	100	200	3	4
MCS10 203	Advanced Language Technologies	3	1	0	100	100	200	3	4
MCS10 204	Elective II	3	1	0	100	100	200	3	4
MCS10 205	Elective III	3	1	0	100	100	200	3	4
MCS10 206(P)	Seminar II	0	0	2	100	0	100	-	2
MCS10 207(P)	Web Technology Lab	0	0	2	100	0	100	-	2
TOTAL		15	5	4	700	500	1200		24

Elective II

MCS10 204 (A) DATA COMPRESSION
MCS10 204 (B) CRYPTOCOMPLEXITY
MCS10 204 (C) INFORMATION THEORY

Elective III

MCS10 205 (A) ADVANCED NETWORKING TECHNOLOGIES
MCS10 205 (B) BIO- INFORMATICS
MCS10 205 (C) SOFT COMPUTING

Note: Remaining 6 hours / week is meant for departmental assistance by students

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Semester III

Course Code	Subject	Hours/week			Marks		Total	Sem-end exam duration - Hrs	Credits
		L	T	P	Internal	Sem-end			
MCS10 301	Elective 1V	3	1	0	100	100	200	3	4
MCS10 302	Elective V	3	1	0	100	100	200	3	4
MCS10 303(P)	Industrial Training	0	0	0	50	-	50	-	1
MCS10 304(P)	Master Research Project Phase I	0	0	22	Guide 150 / EC* 150	-	300	-	6
TOTAL		6	2	22	550	200	750		15

NB: The student has to undertake the departmental work assigned by HOD
*EC – Evaluation Committee

Electives –IV

MCS10 301 (A) DIGITAL IMAGE PROCESSING
MCS10 301 (B) RESEARCH METHODOLOGY
MCS10 301 (C) WIRELESS COMMUNICATION TECHNOLOGIES

Electives –V

MCS10 302 (A) HIGH SPEED NETWORKS
MCS10 302 (B) INFORMATION THEORY AND CODING
MCS10 302 (C) INTERNET MODELS

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