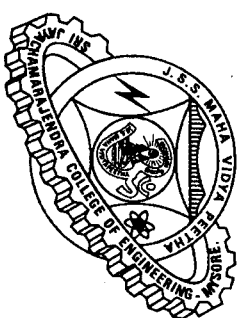


JSS MAHA VIDYAPEETHA
SRI JAYACHAMARAJENDRA COLLEGE OF
ENGINEERING (AUTONOMOUS), MYSORE - 570 006
Affiliated to Visvesvaraya Technological University, Belgaum



REGULATIONS

2013



REGULATIONS

In exercise of powers conferred by the Visvesvaraya Technological University, hereafter referred to as VTU under its Autonomous College Statutes - 2006, the Academic Council of Sri Jayachamarajendra College of Engineering, hereafter referred to as SJCE, makes the following regulations:

1. Title and Commencement

These Regulations shall be called "The SJCE Autonomous College Bachelor of Engineering (B.E.), Master of Technology (M.Tech.), Master of Computer Applications (MCA) and Master of Business Administration (MBA) Degree and Post Graduate Diploma and Certificate Programmes Regulations 2012".

These Regulations shall govern all the students seeking admission to the various programmes from the year 2012-13.

Regulations (General)

G.1 Introduction

G.1.i The General Regulations that are common to all Undergraduate and Postgraduate Degree, Diploma and Certificate Programmes (Credit Based Semester System) of SJCE, are presented here. Specific regulations relating to a particular Degree Programme are given separately along with the corresponding curriculum.

G.1.ii These Regulations govern the policies and procedures on the admission of students, teaching, conducting of examinations, evaluation, announcement of results and Graduation ceremony.

G.1.iii

These Regulations are approved by the Governing or body of SJCE on recommendation of the Academic Council of SJCE and shall supersede all corresponding earlier Regulations of the College, along with the amendments thereto, and shall be binding on all concerned undergoing the said programmes.

G.1.iv

These Regulations may evolve, get refined, revised, updated, amended, modified or changed through appropriate approvals from the Governing body on the recommendation of the Academic Council from time to time, and shall be binding on all parties concerned.

G.1.v

Periodic refinements in the Academic Regulations and Curriculum on the students admitted in the earlier years, shall be dealt with appropriately and carefully, so as to ensure that such students are not subjected to any injustice whatsoever, although they are required to conform to these revised Regulations and Curriculum.

G.1.vi

In order to guarantee fairness and justice to all the parties concerned, in view of the periodic revisions and refinements, specific issues referred to shall be addressed separately by the Academic Council of the College.

G.1.vii

The Governing Body shall consider all issues relating to the Academic activities of SJCE for appropriate action, irrespective of whether a reference is made in these Regulations or otherwise.

G.1.viii

The Principal may co-opt or invite experts from outside or within to any of the Academic Council meetings.

G.1.ix

Any disputes arising from these Regulations must be addressed to the Governing Body of SJCE. The decision of the Governing Body shall be final and binding on all parties concerned.

G.1.x Any legal disputes arising from these Regulations shall be limited to the legal jurisdiction determined by the location of SJCE, which is the City of Mysore, Karnataka State and not that of any other party.

2. Nomenclatures Used:

- (i) Autonomous College: As designated by the Visvesvaraya Technological University (VTU) as per the VTU Autonomous Colleges Statute, 2006.
- (ii) Commission: University Grants Commission (UGC).
- (iii) Council: All India Council for Technical Education (AICTE)
- (iv) University: Visvesvaraya Technological University (VTU).
- (v) College: Sri Jayachamarajendra College of Engineering (SJCE), Mysore.
- (vi) AC : Academic Council of SJCE.
- (vii) BOS: Board of Studies of various disciplines of SJCE
- (viii) BOE: Board of Examiners of various disciplines of SJCE.

3.1 Programmes Offered in the College:

- (i) UG Level: Bachelor of Engineering (B.E.)
- (ii) PG Level: Master of Technology (M.Tech), Master of Computer Applications (M.C.A.) Master of Business Administration (M.B.A.).

Besides, the branch/subject of specialization, if any, shall be indicated in brackets after the abbreviation; e.g., B.E., (Mechanical Engineering), M.Tech. (Industrial Electronics).

- (iii) The PG Diploma and Certificate programmes: These shall be indicated in abbreviated form, like PGD, CERT., with the branch/subject specialization given in brackets.

3.2. UG and PG Degree Courses:

(i) B.E. Degree Programmes

Biotechnology
Civil Engineering
Computer Science and Engineering
Construction Technology and Management
Electronics and Communication Engineering
Electrical and Electronics Engineering
Environmental Engineering
Industrial and Production Engineering
Information Science and Engineering
Instrumentation Technology
Mechanical Engineering
Polymer Science and Technology

(ii) M.Tech. Degree Programmes

Civil Engineering
Computer Science and Engineering
Electronics and Communication Engineering
Electrical and Electronics Engineering
Environmental Engineering
Instrumentation Technology
Mechanical Engineering

- Industrial Structures
- Software Engineering
- Computer Engineering
- Networking and Internet Engineering
- Industrial Electronics Management
- Energy Systems and Management
- Environmental Engineering
- Water Engineering and Health Sciences
- Bio medical signal processing and instrumentation.
- Maintenance Engineering
- Master of Engineering Management

- (iii) Master of Computer Applications (MCA)
- (iv) Master of Business Administration (MBA)

4. Duration of the Course:

4.1. Normal Duration:

The normal duration of an academic programme is

- i. Four years for B.E.,
- ii. Two years for M.Tech. and M.B.A.
- iii. Three years for M.C.A.,

4.2 Maximum Duration:

The maximum period that a student can take to complete an academic programme shall be double the normal duration of the programme, Further, the maximum period for students under lateral entry for B.E. course shall be six years.

5. Academic Calendar:

Each academic year shall be divided into.

- (a) Two main semesters.
- (b) One Supplementary semester; Students may opt to re-register for failed subjects / detained subjects, provided the college offers such subjects. The College may also use this semester to offer add-on Courses for B.E. Degree and MCA students

Add-on Courses : Inter-departmental elective courses could be offered during the Supplementary Semester by any department. Such credits earned (part of elective) could form part of the 200 credits requirement towards the award of the B.E. degree or 150 credits towards the award of MCA degree subjected to the consent of the parent department to which the student belongs. The regulations as announced from time to time with the approval of the Governing body on the recommendation of Academic Council will apply.

6. The Calendar of Events:

Shall be fixed by the college in respect of all the courses from time-to-time as shown in Table 1.

Table 1: A Typical Breakdown of Academic Year into Semesters

A Typical Calendar:	Main Semester
(I) (Odd)	: 1st September -10th January (19 Weeks);
Recess	: 12th January - 24th January (2 Weeks);
Main Semester (II) (Even)	: 27th January - 6th June (19 Weeks);
Recess	: 8th June -20th June (2 Weeks);
Supplementary Semester	: 24th June - 14th August (8 Weeks);
Recess	: 16th August - 29th August (2 Weeks);
Total	: 52 Weeks.
	Make-up examination after the SEE as per notification.

7. Admission to the Course:

7.1 Eligibility for Admission:

Eligibility criteria for B.E./M. Tech /MCA /MBA shall be in conformation with the Karnataka State Government/ University orders in force at the time of admission

- (a) Admission process will be according to the directions of the appropriate statutory bodies and authorities.
- (b) Lateral admission directly to Second Year B.E. course for candidates with 3 year diploma qualification shall be accepted on the directions of the appropriate authorities.

(c) Students from other Institutes and Universities shall be admitted to the College as per the directions and guidelines issued by the appropriate authorities.

(d) If the academic performance of such students in their previous semesters at their previous institutes is available in absolute marks, the same would be converted to letter grades as per college norms

8. Credit Based Semester Scheme:

8.1 General:

(a) The college follows a Credit Based Semester System for all the programmes.

(b) Credit Definition:

One credit shall be equal to:

- Theory course: One hour of Teaching per week per semester;
- Laboratory course / Tutorial: 2 hours per week per semester;

Student activities which do not lend to effective assessment shall not carry any credit.

9. Registration of Courses:

Each student of the College shall have to register for courses of study at the beginning of every semester.

The permissible Course load during the main semester of any programme shall be within the limits of a minimum of 20 and a maximum of 30 credits. However, a period of 2-3 days shall be specifically assigned for this event in the Academic Calendar. for the students to seek faculty advice, discuss with the subject teachers and complete the formalities. However, a provision is made for the students to register for an additional course which he/she has obtained 'F' grade in the earlier semester examinations, in addition to the number of credits offered in the current semester. He /she should be able to attend classes and obtain the required attendance in the additional subject.

9.1 A student shall register for courses to earn credits for meeting the requirements of a Degree/PG Diploma/Certificate programme.

9.2. The Courses shall be classified as follows:

(a) **Core Subjects:** A student shall complete successfully all the core subjects prescribed for the programme to become eligible for the award of the Degree. Such courses together with their grades and the credits earned shall be included in the Grade Card issued by the College at the end of each semester

(b) **Electives Subjects:** A student shall further complete successfully the elective subjects offered in the programme to become eligible for the award of the Degree. The Student can choose the subjects of his/her interest from among the offered electives.

These core and elective subjects form the basis for determining the student's academic performance in any semester.

(c) **Mandatory Subjects:** A student shall complete successfully all the mandatory courses prescribed from time to time by the college. These subjects however do not carry any credit.

9.3. Faculty Advisors

Teachers shall be appointed as faculty advisors by the respective Head of the Department for groups of students. The functions of such advisors shall include:

- (a) Monitoring the academic and other general progress of the students.
- (b) Advising them on registration and selection of courses.
- (c) Assessing their academic performance and monitoring their attendance.
- (d) Advising the students on Withdrawing / Dropping of course/s based on their progress and capabilities.

(e) Counselling the students on general matters, discipline and conduct.

10. Audit Courses:

A student can register for courses for audit only, with a view to supplement his/her knowledge and/or skill. The grades obtained in such subjects shall not be reflected in the Grade Card. However for such audit courses a separate certificate shall be issued by the college.

11. Dropping of Courses:

(a) A specific period shall be fixed in the middle of each semester for this purpose to review the students' performance in CIE by the Faculty Advisor in consultation with the subject teacher to facilitate students to drop the identified course(s) (up to the minimum credits specified for the semester) without being mentioned in the Grade Card.

(b) Such Courses, if core, are to be re-registered and taken up for study at a later time. However if the dropped courses are electives, the students have an option to re-register either for the same or different electives later, depending on the availability of the course and consent of the concerned faculty advisor and the Head of the Department.

12. Withdrawal from Courses:

12.1 A specific period shall be identified towards the end of each semester to help review the students' performance in CIE by the Faculty Advisors.

12.2 The students having poor performance in CIE may withdraw from certain identified course(s) in consultation with the Faculty Advisor and the course teacher with the approval of the respective Head of the Department (ensuring that the minimum of 20 credits specified in Regulations 9.0 for the semester is still intact), provided he/she has satisfactory attendance. In such cases, a grade 'W' shall be awarded and mentioned in the grade card.

12.3 Such Courses, if core, are to be re-registered by these students and taken up for study at a later time. However, if the withdrawn courses are electives, the students have an option to re-register either for the same or different elective later depending on the availability of the course and consent of the concerned faculty Advisor and the Head of the Department.

13. Temporary Withdrawal from the Programme:

13.1. A student shall be permitted to withdraw temporarily from the programme on grounds like, prolonged illness, calamity in the family or any other serious happening. The withdrawal shall be for periods which are integral multiples of a semester:

(a) provided the student applies to the College within at least 6 weeks from the date he/she last attended the classes, stating fully the reasons for such a withdrawal, together with supporting documents and endorsement of his/her parent/guardian;

(b) provided the College is satisfied of the genuineness of the case and that, even by taking into account the expected period of withdrawal, the student has the possibility to complete the programme requirements (e.g., UG: 200 credits) within the maximum permissible duration specified by the University.

(c) provided the student does not have any dues or demands at the College/University including tuition and other fees as well as library / sports / other material.

13.2. (a) A student availing temporary withdrawal from the course of study under the above provision shall be required to pay such fees and/or charges as may be fixed by the College until such time as his/her name appears on the college rolls

However, it may be noted that the fees/charges once paid shall not be refunded.

(b) A student shall be entitled to avail of the temporary withdrawal facility only once during his/her studentship of the programme at the College. However, any other concession for the concerned student shall have to be approved by the concerned Council of the College. Hence, the students shall be advised by the Principal of the College to use this provision only in exceptional cases.

14. Termination from the Programme:

14.1 A student shall be required to withdraw from the programme and leave the College on the following grounds:

- (a) Failure to earn credits for the same subject even after five attempts.
- (b) Failure to secure a CGPA ≥ 5.00 for more than once during his/her course of study.
- (c) Failure to meet the standards of discipline as prescribed by the College from time to time.

15. Credit Structure:

15.1 A typical Credit Structure for course work is given in Table 2:

Table 2: Typical Credit Structure for Course Work

Lectures (hrs./wk./Sem.)	Tutorials (hrs./wk./Sem.)	Lab. Work (hrs./wk./Sem.)	Self Study	Credits (Lec:Tut: Lab:SS)	Credits (Total)
3	0	0	0	3:0:0:0	3
2	2	0	0	2:1:0:0	3
2	0	2	0	2:0:1:0	3
2	2	2	0	2:1:1:0	4
0	0	6	0	0:0:3:0	3
0	0	0	4-8 hrs / week /sem.	0:0:0:4-8	2-4

15.2 The total number of credits required to be earned by a student to qualify for the award of Degree/PG Diploma/Certificate shall be as given in Table 3.

Table 3: Total Number of Credits to Qualify for the Award of Degree / PG Diploma /Certificate

Programme	Normal Duration: Years (Semesters)	Total No. of Credits to be Earned (Average/ Semester= 25)
UG Degree:		
• B.E.	4.0 (8)	200
• B.E.degree through lateral entry at II year level	3.0 (6)	150
PG Degree:		
• M. Tech.	2.0 (4)	100
• M.B.A.	2.0(4)	100
• M.C.A.	3.0(6)	150
Diploma (UG/PG)	≤ 1.0 (2)	50
Certificate	≤ 0.5 (1)	25

16. Assessment:

16.1. Assessment shall be done in two stages:

(a) **Continuous Internal Evaluation (CIE):** Five events shall be conducted by the course teacher all through the semester; which shall include three written tests and two events such as quiz, assignments, problem solving, group discussions etc. The student shall secure a minimum of 50% of the total marks prescribed for the CIE in each course to become eligible for SEE. **Performance in laboratory courses shall be assessed by continuous internal evaluation, followed by a laboratory test by internal examiners.**

(b) Semester-End Examination (SEE): shall be conducted by the course teacher at the end of a semester, on dates fixed by the College by means of a written examination for all core and elective theory courses.

16.2 Passing Standards:

Passing standards are as mentioned in Table 4.

Table 4: Passing Standards using Absolute Grading

Evaluation Method	Passing Standard
CIE	Score: $\geq 50\%$
SEE	a. Score: $\geq 40\%$ b. The total of CIE + SEE shall be $\geq 45\%$

16.3 Project Work Evaluation:

CIE of the project work of UG and PG Courses shall be based on the progress of the student in the work assigned by the project supervisor, periodically evaluated by him/her together with a Departmental Committee constituted for this purpose.

Seminar presentation, project report evaluation and final oral examination shall be conducted by a common Project Evaluation Committee (with one external examiner for PG only). The detailed evaluation procedures shall be obtained from the respective departments.

In case of other requirements, such as, Seminar, Industrial Training, Field Work, Comprehensive Viva-Voce, if any, and Project Work for the PG Courses, the assessment shall be based on norms laid down by the Academic Council of the College as approved by the Governing Council

16.4 There shall be no re-examination for any Course except in the case of a student being awarded I or X grade. In such cases, the make-up examination shall be conducted immediately after SEE.

16.5 The following category of students are required to re-register for the course:

- (a) Students who have failed to get letter grades - S A B C D E
- (b) Students who have failed to secure a minimum of 50% marks in CIE.
- (c) Students who have been detained on account of shortage of attendance
- (d) Students who have withdrawn (Grade W) from a Course.
- (e) Students who have dropped from a course/courses. Such students shall go through CIE and SEE again, in the course/courses for which he/she registers.

16.6 The re-registration shall be possible if the particular Course is offered again either in a main or a Supplementary Semester.

17. Grading:

Absolute grading system shall be adopted. The total marks scored by the students in CIE and SEE put together shall be converted into letter grades.

17.1 Letter Grades:

A letter grade is basically a qualitative measure of the performance of a student in a course. The following letter grades shall be awarded to the students:
Outstanding (S), Excellent (A), Very Good (B), Good (C), Average (D), Poor (E) and Fail (F).

17.2 Transitional Grades:

The transitional grades, such as, 'I', 'W' and 'X' shall be awarded to a student in special cases. These shall be converted into one or the other letter grades (S-F) after the student completes his/her Course requirements, including examinations:

17.2.1 Grade 'I':

Awarded to a student having prescribed attendance and meeting the prescribed passing standard at CIE in a Course, but

has absented from SEE with prior written permission, for a valid and convincing reason acceptable to the College, like:

- (i) Illness or accident, which disabled him/her from attending SEE;
- (ii) A calamity in the family at the time of SEE, which required the Student to be away from the College;
- (iii) Any other emergency as ascertained by the competent authority

17.2.2 Grade 'W':

Awarded to a student having the prescribed attendance, but withdrawing from that Course before the prescribed date in a semester under faculty advice with the approval of the Head of the department.

17.2.3 Grade 'X':

Awarded to a student having the prescribed attendance and CIE of $\geq 80\%$ in a Course, but having secured $\leq 40\%$ in SEE which could result in an overall F Grade in the Course.

17.3 Grade Points:

(a) The college follows a 10-point grading system, as given in Table 5.

Table 5: Grade Points Scale for Absolute Grading

Level	Out-standing	Excellent	Very Good	Good	Average	Poor	Fail
Grade	S	A	B	C	D	E	F
Grade Points	10	09	08	07	05	04	00
Score (Marks)							
Range (%)	90-100	75-89	66-74	56-65	50-55	45-49	<45

(b) The grade points given in Table 5 shall be used in the evaluation of credit points earned by the student in a Course.

These credit points shall be used to calculate the SGPA and CGPA.

17.4 Earning of Credit:

A student shall be considered to have completed a Course successfully and earned the credits if he/she secures an acceptable letter grade in the range S, A, B, C, D, E. Letter grade 'F' in any Course implies failure of the student in that Course and no credits earned.

17.5 Award of Class:

It is necessary to provide equivalence of the average of SGPA and CGPA with the percentages and/or Class awarded as in the conventional system of declaring the results of University examinations. This shall be done by prescribing certain specific thresholds in these averages for declaring First Class with Distinction, First Class and Second Class, as given in Table 6 as per AICTE guide lines

Table 6: Percentage Equivalence of Grade Points (on a 10-Point Scale) as per AICTE

Grade Point	Class
5.0 - 6.74	Second Class
6.75 - 7.74	First Class
7.75 and above	First Class with Distinction

CGPA Conversion to Percentage Marks
Equivalent percentage = (CGPA - 0.75) 10

18. Grade Card:

18.1 Each student shall be issued a Grade Card at the end of each semester.

18.2 The Grade Card shall have a list of all the Courses registered by a student in the semester together with their credits.

