

ACADEMIC REGULATIONS-2022

**FACULTY OF COMPUTER APPLICATIONS
DEPARTMENT OF COMPUTER APPLICATIONS**

M.C.A

M.C. A (CLOUD COMPUTING)

M.C.A (AI AND ML)

Academic Regulations 2022

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EDUCATIONAL AND RESEARCH INSTITUTE
DEEMED TO BE UNIVERSITY

University with Graded Autonomy Status
(An ISO 21001 : 2018 Certified Institution)
Periyar E.V.R. High Road, Maduravoyal, Chennai-95. Tamilnadu, India.



REGULATIONS – 2022

(For Students admitted from the academic year commencing from 2022-23 onwards)

The regulations for the M.C.A. Degree program are prepared with the recommendation, guidelines and directions from the National Knowledge Commission, University Grants Commission (UGC) and All India Council for Technical Education (AICTE) on:

- (a) Learning Outcome Based Curriculum Framework (LOCF) by UGC
- (b) Choice Based Credit System (CBCS) by UGC
- (c) Evaluation Reforms in Higher Education Institutions in India by UGC
- (d) Examinations Reform Policy by AICTE

Preliminary Definitions and Nomenclature

In these regulations, unless the context otherwise requires:

- i. **‘Degree’** means that academic award conferred upon a student on successful completion of a two-year programme for MCA and 3 year for BCA designed to achieve the defined attributes.
- ii. **‘Programme’** means cohesive arrangement of courses, co-curricular and extracurricular activities to accomplish predetermined objectives leading to the awarding of M.C.A(Master of Computer Applications) / B.CA (Bachelor of Computer Applications) degree.
- iii. **‘Course’** means a combination of theory, tutorials and practice sessions of a subject studied in a semester, like Mathematics, Physics, *etc.*

R 1.0 Admission

R1.1 MCA Programmes offered and duration:

S.No	Faculty	Code	Programme	Duration Semester	
				Min	Max
1	Computer Applications	CA			
			M.C.A.	4	8
			M.C.A. (Online)	4	8
			M.C.A (Cloud Computing)	4	8
			M.C.A (AI And ML)	4	8

R 1.2 **Number of Seats:** The number of seats in Master of Computer Applications (M.C.A) programme for which admission is to be made in the Faculty of Computer Applications will be decided by the Board of Management of the University.

R 1.3 **Minimum Eligibility for Admission to MCA:** The minimum qualification for admission to M.C.A degree programme (Regular) shall be mentioned as follows:

A) Passed BCA / B.Sc. in Computer Science / B.Sc. in Information Technology / B.Sc in Computer Technology / Bachelor Degree in Computer Science Engineering or equivalent Degree from a University recognized by UGC.

OR

B) Passed B.Sc. / B.Com. / B.A. from University recognized/certified by UGC with Mathematics/Statistics/Business Statistics or equivalent Degree at 10+2 Level or at Graduation Level.

C) The Minimum Percentage of Marks / CGPA prescribed by university.

D) Notwithstanding the above, actual Admissions will also be based on the rules and regulations of the UGC / AICTE / Competent authorities.

R 1.4 **Fees Structure:** The selected candidate will be admitted to the MCA programme after he/she pays the prescribed fees.

R 1.5 **Authority for Admission:** In the matter of admission to the BCA/MCA, the decision of the Admission Committee is final.

R 1.6 **Revoking Admission:** If, at any time after admission, it is found that a candidate has not fulfilled all the requirements stipulated in the offer of admission, the concerned Head of the Institution may revoke the admission and report the matter to the Vice Chancellor.

R1.7 Academic Calendar: All Programmes would be conducted only on an Academic Calendar (typically starting from July/August of a year to May/June in the subsequent year).

R 2.0 Programme Structure

MCA Programme is designed for four semester duration and as per the guidelines laid down by AICTE.

R. 2.1 Applicability of this Regulation: These regulations are applicable to PG Programme offered from the Academic Year 2022 – 23.

R 2.2 Category of Courses: The complete programme of study will consist of 6 categories of courses distributed over four semesters with two semesters per year as listed below:

Sr. No.	Category Code	Course Category and Description
1	C	Core Courses : Core Courses corresponding to the branches of study, will include the major discipline oriented compulsory courses to be studied in the M.C.A program.
2	OE	OPEN Elective Courses : The students can choose and register for the open Elective of any discipline through the on line portals such as NPTEL/SWAYAM/Any MOOC.
3	E	Elective Courses : Students can register for the the specialized e l e c t i v e courses offered by the department..
4	I	Skill Enhancement Courses : Skill enhancement courses include courses offered by the department Soft Skill /Core Skill /Internship
5	L	Practical Learning / Project Work : Project Work, Internship in Industry or Research Institutions.
6	ID	Interdisciplinary Courses : Courses enables to improve the Interdisciplinary skills from social sciences , Environmental Sciences, Finance and Mathematics

R 2.3 Outcome Based Education: The Master of Computer Applications follows the Outcome Based Education (OBE) guidelines and has well defined:

1	Program Educational Objectives (PEO)
2	Program Learning Outcomes (PLO) which includes Program Specific Outcomes (PSO)
3	Mission of the Department to Program Educational Objectives (PEO) Mapping
4	Program Educational Objectives (PEO) to Program Learning Outcomes (PLO) Mapping
5	Structure of Master of Computer Applications (M.C.A)
6	Categorization of Courses (for all two years)
7	Program Articulation Matrix (for all three years)

Course has well defined:

1	Course Learning Rationale (CLR)
2	Course Learning Outcomes (CLO) – (Outcome based Objectives)
3	Learning Plan with session-wise Session Learning Outcomes (SLO)
4	Learning Assessment Scheme
5	Course Designer Details

These details are proposed by the respective Board of Studies and approved by the Academic Council.

S. No	CATEGORY	Description	No.of Courses	Credits	Total	Credit Weightage	Contact hours
1	CORE COURSES	Core Theory	7	25	33	44%	315
		Core Lab	4	8			120
2	ELECTIVE COURSES	Department Core Electives/ Skill enhancement electives	2	6	6	8%	90
3	OPEN ELECTIVES	Open Elective theory	1	3	3	4%	45
		Open Elective Lab					
4	HUMANITIES & SOCIAL SCIENCES , LIFE SKILLS &SOFT SKILLS	Life Skill	1	-	-	-	15
5	PROJECTS/IN TERNSHIP/ CORE SKILL	Project	2	11	25	33%	165
		Core Skills	3	12			180
		Internship / NSS / NCC	1	2			30
6	ANY OTHER	Research	1	3	8	11%	45
		Methodology	1	3			45
		Intellectual Property	1	2			30
		Rights Research Publication					
Total			24	75	75	100	1080

Components of Curriculum and credit distribution for M.C.A. Programme

R 2.4 Learning Curriculum: Master of Computer Applications have a learning curriculum comprising of appropriate combinations of learning from Lecture, Online lecture classes, Tutorials and Practice sessions.

R 2.5 Learning Credits: Learning Credits are earned by the learner based on the following pattern:

Learning Environment	Learning Credit (C)
1 Hour* Learning from a Lecture Session per week (L)	1
1 Hour* Learning from a Tutorial Session per week (T)	1
1 Hour* Learning from a Practice Session per week (P)	0.5

(*1 Hour of Learning is usually a 50-60 minute period)

R 2.6 Curriculum and Course Content Approval: M.C.A Programme will have a curriculum and course content (syllabi) proposed by the Boards of Studies and approved by the Academic Council.

R 2.7 Minimum Learning Credits for the award of Degree: The curriculum of any branch of the M.C.A programme is designed to have a minimum of **75 credits** for the award of the M.C.A degree.

R 2.8 Medium of Instruction: The medium of instruction, examination and project reports will be English.

R 2.9 Massive Open Online Courses (MOOCs)

The University strongly encourages the use of SWAYAM/NPTEL (Study Web of Active Learning by young and aspiring minds) platform. The students are encouraged to choose any open elective course from SWAYAM on the recommendation of the faculty advisor and the credits will be transferred. Administering of MOOCs will be through separate MOOCs Guidelines.

R 2.10 Internship and Mini Project

(A) Internship: Students shall undergo Internship (either in an Industry [or] Industrial setting [or] in a Research Centre [or] in a Laboratory within the University) for duration

of 4 to 6 weeks during the summer vacation after II semester. At the end of the internship, the student shall submit a report and make a presentation which will be assessed by a committee constituted for this purpose by the head of the department.

(B) Mini Project: Students who wish to do a Mini Project may be duly guided and assessed by a Faculty member in the respective department. This minor project work will be completed within the III semester.

(C) Project Work: Project Work shall be done by the student either:

- a) in any of the Funded Projects / Research Centers / Incubation Centers within University [or]
- b) within the Department Labs under the guidance of a Research Supervisor[or]
- c) in an Industry / Industrial setting /Research Centre outside University duly approved by the Department Project Work Committee.

After completion of the Project Work, the student shall submit a Report/Dissertation/Thesis and make a presentation which will be duly assessed by the Department Project Work Committee.

R 3.0 Enrollment for Elective courses

The process of signing up for Elective courses is called registration.

Students are enrolled after they pay the prescribed fees. For a student to attend classes he/she has to complete both registration and enrollment.

R 3.1 Elective Course Enrolment Requirements: Enrolment for all courses prescribed as per the curriculum is mandatory.

- a. Registration of any course will be controlled by the concerned Head of the department.
- b. The registration sheet contains the course number, course name, number of credits and category for each course taken in that semester. The student will make the choice of courses on his own or in consultation with his/her Faculty Advisor.
- c. The registration shall be completed within a week after commencement of classes.
- d. Late enrolment would not be encouraged. In case of a late enrolment, special permission is required from the respective Heads of Department and should be done not later than two weeks from the commencement of classes.

R 3.2 Break in Studies: A student will not be allowed to enroll for current semester and has to undergo a year of break in studies if he/she:

- a. Has been “Debarred from study” due to any stipulated reason in the previous semester.
- b. Has any “Pending Disciplinary Actions” against him/her from the previous semesters

During the Break of Studies, a student:

- i. Cannot attend any regular classes
- ii. Will not be permitted to stay in the “Hostel” facility provided by the University
- iii. Will not be permitted to participate in any of the University’s activities inside the campus.
- iv. Can reappear for the “End Semester Final Examination “for such courses in which he/she might have obtained “F” / “AB” grade.

R.3.3 Enrolment After Break in Studies: A student who undergoes a break in studies in the current semester (odd/even) can “Enroll Back to Study” into the Programme only in the subsequent corresponding (odd/even) semester in the next academic year. and “Enroll Back to Study” is subject to the approval from Head of the Institution.

R.3.4 Eligibility for Enrolment: A student will be eligible for enrolment only if he/she satisfies the enrolment requirement specified in R.3.0 and will be permitted to enroll only if he/she has cleared all dues to the University, Hostel, Library, NCC etc. up to the end of the previous semester, provided he/ she is not debarred for enrolment as a result of any disciplinary action of the UNIVERSITY.

R 4.0 Temporary Break of Study from a Programme

R 4.1 Temporary Break: A student may be permitted by the Head of the Institution to withdraw from the programme for a semester or longer for reasons of ill health or other valid reasons. Normally a student will be permitted to discontinue from the programme only for a maximum continuous period of two semesters or the aggregate of individual discontinuation not exceeding two semesters. He/she shall apply to the Head of the Institution in advance but not later than the last date of registering for the end semester examinations of the year in question. Such applications should be routed through the Head of the department and the Head of the institution stating the reason for break of study.

R 4.2 Rejoining after temporary Break: The Candidate who intends to rejoin the programme after the break shall submit rejoin application in the next academic year through the Head of the department and the Head of the institution.

R 4.3 Rules Governing: The Candidate who rejoins after the break shall be governed by the rules and regulations in force at the time of rejoining.

R 4.4 **Change in Duration:** The duration specified for passing all the courses for the purpose of classification vide shall be increased by the period of such break of study permitted.

R 4.5 **Period of Study:** The total period for completion of the programme should be reckoned from the commencement of the first semester to which the candidate was admitted and shall not exceed the maximum period specified in clause R.4.0 irrespective of the period of break of study in order that he/she may be eligible for the award of the degree.

R 4.6 **Detention Cases:** If any student is detained for want of requisite attendance, progress and good conduct, the period spent in that semester shall not be considered as „Break of Study“ and this clause is not applicable for the detention cases

R 5.0 Duration of the Programme :

R 5.1 **Semester Duration:** Each semester shall normally consist of 75 working days or 450 hours. A student is ordinarily expected to complete the M.C.A programme in **FOUR** full-semester for regular programme. However a student may complete the programme at a slower pace by taking more time but in any case not more than **EIGHT** semesters. This mentioned time duration is counted excluding semesters withdrawn on medical grounds etc .

R 6.0 Academic Advising:

R 6.1 **Academic Assistance:** In order to provide academic assistance and individualized attention to students, different levels of advising/attention will be provided by three types of officers. (1) Academic Class Advisors (2) Student Counsellor (3) Faculty Advisors

Academic Class Advisors: For every class (comprising of sections), an Academic Class Advisor would be allocated to help the student evaluate and realize educational and career options. In all of these matters, the Academic Class Advisor or the advisement team must judge whether the student's request is in order, is in the student's best interest, and is feasible under existing regulations.

R 6.2 **Faculty Adviser:** To help the students in planning their courses of study and for getting general advice on the academic programme, the concerned Department will assign for every class a faculty member who will be called the Faculty Adviser.

R 6.3 **Student Counselor:** In order to motivate the students personally and provide counseling on academic and non-academic matters, a faculty member called Student Counselor shall be assigned.

R 7.0 Discipline

R 7.1 **Expected Conduct and Discipline:** Every student is required to maintain discipline and decorum behavior both inside and outside the University campus and not to indulge in any activity that will tend to bring down the prestige of the institution.

R 7.2 **Act of Indiscipline:** Any act of indiscipline of a student is first to be considered by the Discipline and Welfare Committee of the Department for necessary action. If the issue demands more serious consideration, the act of indiscipline will be reported to the concerned Head of the Institution, and he will refer it to the Discipline and Welfare Committee of the University, constituted by the Vice Chancellor.

R 7.3 **Enquiry:** The Committee will enquire into the charges and recommend suitable action if the charges are substantiated. The concerned Head of the Institution will take appropriate action on the recommendation of the Discipline and Welfare Committee.

R 7.4 **Suspension:** The concerned Head of the Institution may suspend a student pending inquiry depending upon the prima facie evidence.

R 7.5 **Appeal:** The student may appeal to the Vice Chancellor whose decision will be final and binding.

R 7.6 Attendance

Attendance Definition: Attendance is the physical presence of the student in the class. It is a well-observed fact that the students who score good grades are those who attend classes and participate in all the assigned learning activities in the class / laboratory / field work regularly. Therefore, the students must strive to attend all the classes and sincerely participate in all the assigned learning activities without fail.

Attendance Marking: Every teaching staff member handling a class will take attendance till the last instruction day in the semester.

R 8.0 Class Committee

Class Committee: Every class (comprising of sections) of the Undergraduate programme will have a Class Committee consisting of Faculty and Students. The class committees for the Department programme of each semester will be constituted by the Head of the concerned Department.

Constitution of the Class Committee: The constitution of the Class Committee for the Department programmes of each semester will include the following members:

- a. All teachers handling the Courses
- b. Four students from the class to be chosen by the students of the class.
- c. Faculty Adviser(s) of the respective class.

- d. One senior faculty, preferably an Assistant Professor of the concerned Department and not associated with teaching of the class, to be nominated by the concerned Head of the Department, to act as the Chairperson of the Class Committee.

Responsibilities: The basic responsibilities of the Chairperson of the Class Committee:

- a. To review periodically the progress of the classes.
- b. To discuss problems concerning curriculum and syllabus, the conduct of the classes as well as non-academic issues concerning students.
- c. To define the method of assessment in the courses in consultation with class committees and announcing to the students at the beginning of the semester.
- d. To organize the class committee meeting atleast twice a semester, one at the beginning of the semester and one after the second cycle test.
- e. To prepare the minutes of the meeting with the assistance of faculty advisers and duly signed by the HOD, sent the same to the concerned Head of the Institution within 7 days from conduct of the meeting. The minutes shall also be circulated to the class committee members and displayed in the notice board.

R 9.0 Assessments /Evaluation

The performance of a student in a theory course shall be assessed through Continuous Assessment Tests (CAT) termed as midterm examination and a final assessment test which is otherwise termed as model examinations. Assignments which include quizzes, seminars, group discussions, class/take home assignments (and several others) is a part of Continuous assessment. Marks based on Attendance component will be decided as per the circumstances. Maximum of 5 Assignments will be given to a student. On submission of a minimum of 3 assignments ,student will be awarded a maximum of 15 marks.

R 9.1 Continuous Assessment Method

Continuous assessment will be based on the following assessment tools.

- 1.CAT 1: It comprises of 2 modules. Each module carries 50% weightage.

Module 1 :(Part A-10x1mark MCQ and Part B-4x10 marks descriptive- “either” “or” type)-Unit 1& II –Maximum marks 50 & duration is 90 minutes.

Module2: Any one ILM

2. CAT 2: It comprises of 2 modules. Each module carries 50% weightage.

Module 1: (Part A: 10x1mark MCQ and PartB: 4x10 marks descriptive-“either” “or” type) (Units III &IV)-Maximum marks 50 & duration is 90 minutes.

Module2: Any one ILM

3.CAT3:

University Exam pattern (All units) – Maximum marks- 100 & 3 hours duration. Part A: 10x1 mark MCQ, Part-B: 5x6 marks (one question from each unit), Part-C: 5x12marks. (5 questions in “either”/”or” pattern.

- Weightage of internal mark:
- CAT 1 : 20%
- CAT 2 : 20%
- CAT 3 : 40%
- Assignment: 10%
- Attendance: 10%

For attendance internal mark can be awarded as per the following scheme.

Break-up of marks for attendance,

- 100% attendance: 10 marks
- 95 to99% : 09 marks.
- 90 to94% : 08 marks
- 85 to 89% : 07 marks.
- 80 to 84% : 06 marks.
- 75 to 79% : 05 marks
- Less than 75 : 0 marks.

Re Test for Continuous Assessment:

If a student is not able to write any of the tests due to genuine reasons, the Head of the Department concerned may arrange to conduct a special test and the same may be considered for continuous assessment. However, not more than one such test shall be conducted for a student in a course for the semester.

R 9.2 Validity of Continuous Assessment Marks

Validity of Continuous assessment mark for M.C.A:

Continuous assessment mark awarded for each course will be considered only for the first two attempts in the university examination and result will be declared on the basis of Continuous mark and University end semester examination mark. From the third attempt onwards, full weightage (100%) shall be assigned to marks scored in the end semester examinations and the Continuous assessment marks they have scored during the regular course of study will be ignored.

R 9.3 Evaluation of Practical courses

Continuous Assessment:

P1,P2 , two assessments are conducted one at the middle of the semester and the other at the end of the semester. Average of P1 and P2 will be given 75% weightage and 25 % weightage for the attendance for the Continuous assessment mark calculation.

End semester University Examination:

End Semester Examination is conducted for 100 marks for maximum duration of 3 hours.

R 9.4 Assessment of ETL courses(Embedded Theory and Lab):

CAT 1 (weightage: 30%)

Module1:P1

A practical test will be conducted at the end of Cycle 1 for a maximum mark of 100

Module1:P2

A practical test will be conducted at the end of Cycle 2 for a maximum mark of 100

CAT2: (Weightage:20%)

Part A: 10x1 MCQ and Part B: 4x10marks descriptive type-either/or type(Units I,II &III)
(Maximum marks 50 & 90 minutes duration.)

CAT3: (Weightage: 30%)

University Exam pattern (All units) – Maximum marks- 100 & 3 hours duration. Part A:10x1 mark MCQ,Part-B:5x6 marks (5 questions out of 8),Part-C:5x12marks.(5 questions in “either”/”or” pattern, one question from each unit.

Assignment: (Weightage: 10%)

Attendance: (Weightage: 10%)

Computation of Continuous assessment mark (100 marks)

60% weightage is given to the above assessments (CAT1, CAT2, CAT3, Assignment and Attendance). The department has to conduct end semester practical Examination along with other practical examination and 40% weightage is given to this practical examination.

Passing criteria for ETL courses:

End semester University examination is conducted for theory component by the controller of examination.

Students securing minimum of 50% in End semester University theory Examination and also 50% aggregate of Continuous assessment and End semester examination marks will be declared **PASS**.

R 9.5 Question paper Scrutiny committee:

Controller of Examination (COE) will constitute department wise Question paper scrutiny committee (3 to 4 members from each department) in consultation with the Heads of the departments. Before the start of the university examination (at least 15days before the commencement of the examination) the members of the committee shall be called by COE for the scrutiny of the question papers.

R 9.6 End Semester University Theory Examination:

Question paper pattern :

Part A: 10x1 marks(MCQ)

Part B: 5x6 marks (5 out of 8)

Part C: 5x12 marks ('Either' 'or' type)

R 9.7 Project Work:

The final year project work can be either carried out in a R&D section of any IT Industry/University. The project work will be done individually for MCA.

Rubrics for Project Work :

Continuous Assessment

Description				
Review 1	Review2	Review3	Guide mark	Total
25	25	25	25	100

End semester University examination

Report	Presentation	Viva Voce	Total
40	40	20	100

R 9.8 Eligibility for Examinations

All the students who have registered for a particular course are eligible to write the University exam of that course, provided he/she is not debarred from writing the exam, due to one or more of the reason/s listed below:

1. Shortage of attendance
2. Acts of indiscipline
3. Withdrawal of a registered course.

Attendance Requirement For Attending The End Semester Examinations.

The teacher handling a course of study must finalize the attendance percentage and performance report three days prior to the last instruction day of the course of study in the semester and send it to Head of the Department and Dean. The students falling short of 75% attendance are normally not allowed to write the end semester examinations. However, those students who have less than 75% attendance for reasons of medical and other emergency situations can be considered for condoning of attendance by the Vice Chancellor provided their overall attendance in a course of study including the period of illness etc., does not fall below 65%. If the attendance falls short due to medical ground backed by medical certificate, up to 5% shortfall can be condoned by the Dean and if it is more than 5%, the Vice Chancellor will have the discretionary power for condoning on a case-to-case basis. The students falling short of 65% attendance have to re-do the courses in the next academic year.

R 9.9 Passing Requirements

A Results Passing Board, constituted by the Vice Chancellor reviews the results and performance of the students, for any corrective action, if required.

A candidate shall be declared to have passed the examination, if she/he secures not less than 50%(Average of Continuous assessment and end semester university examination) of total marks prescribed for the course/course of study, including

the Project work with a minimum of 50% marks prescribed for the end semester university examination, as certified by the result passing board.

R 9.10 Award of Letter Grades and CGPA

Each student is awarded a final letter grade for each course at the end of the semester based on the aggregate of marks obtained through Continuous assessment and external assessment. The letter grades and the corresponding grade points, as recommended by UGC, are as follows:

Letter Grade	Grade Point	Normalized Mark range
H	10	90 – 100
S	9	80 – 89
A	8	70 – 79
B	7	60 – 69
C	6	50 – 59
F	-	< 50 Failure due to poor performance
F*	-	≥ 50 denotes failure in end semester examination
RA	-	Re – Appear
AB	-	Absent for the End semester examination

After results are declared, Grade Sheets will be issued to each student, which will contain the following details:

- i) The Faculty and the Department in which the Candidate has studied
- ii) The list of courses enrolled during the semester and the marks and grade scored
- iii) Grade Point Average (GPA) is computed for each Semester.

The GPA, a measure of performance of the students in the semester to which it refers, is calculated as follows:

$$\text{GPA} = \frac{\sum_{i=1}^n c_i g_i}{\sum_{i=1}^n c_i}$$

where ‘ n ’ is the number of courses registered for the semester, c_i is the number of credits allotted to a Particular course, and g_i is the grade points carried by the letter corresponding to the grade awarded to the student for the course.

- iv) Cumulative Grade Point Average (CGPA) is computed at the end of every semester from the 2nd semester onwards to which it refers, and will be calculated as follows:

$$\text{CGPA} = \frac{\sum_{i=1}^m c_i g_i}{\sum_{i=1}^m c_i}$$

where ‘ m ’ is the total number of courses the student has registered from the first semester onwards upto and including the semester, just completed. ‘ c_i ’ is the number of credits allotted to a particular course and ‘ g_i ’ is the grade-points carried by the letter corresponding to the grade awarded to the student for the courses. CGPA will be rounded off to the first place of decimal and recorded as such.

R 9.11 Eligibility for award of Degree

A student will have to earn credits as given below for the award of B.C.A. degree/ M.C.A. degree.

Candidate who had not passed language paper
in the previous course of study. - 97

Total Credits required for the M.C.A. (Full Time/Part Time)-- 75

R 9.12 Classification of the Degree Awarded

Also refer respective programmes for specific details. The general classification of the degree awarded in credit system based education is given below:

A candidate is said to have qualified for the award of degree when he / she has completed and passed courses worth the minimum number of Credits stipulated for that degree .

9.11.1 A candidate who has qualified for the award of degree having passed the examination in all the courses of all semesters in his / her first appearance securing not less than 9.00 CGPA shall be declared to have passed in **First class with Honours**.

9.11.2 A candidate who has qualified for the award of degree having passed the examination in all courses of all semesters in his / her first appearance securing not less than 8.00 CGPA but less than 9.00 CGPA shall be declared to have passed in **First class with distinction**.

9.11.3 A candidate who has qualified for the award of degree having passed in all courses at the end of the stipulated minimum period with not less than a CGPA of 6.50 shall be declared to have passed in **First Class**.

9.11.4 All other candidates (not covered in Secs. 11.1, 11.2 and 11.3) who have qualified for the award of degree before the stipulated maximum period shall be declared to have passed the examination in **Second class**.

ANNEXURE-I

Evaluation Procedure and rubrics for the courses under the category “Internal Evaluation”

The continuous assessment has to be done by the faculty member assigned for the respective course.

The end semester University examination will be conducted by the examiner duly appointed by the Head of the department.

AUDIT COURSE

Continuous Assessment mark will be awarded for maximum marks of 100 based on two assessments during the semester.

End semester University examination will be conducted as written examination, One hour MCQ type questions (25nos) for 50 marks and 1 hour descriptive type questions for 50 marks

SUMMER INTERNSHIP

Continuous Assessment:

Description				
Attendance	Review1	Review2	Certificate	Total
15	30	30	25	100

End semester University Examination:

Report	Presentation	Viva Voce	Total
40	40	20	100

OPEN ELECTIVE: (Online course through NPTEL/SWAYAM/MOOC)

Continuous Assessment:

The assignment marks obtained in the online portals like NPTEL/SWAYAM/Any MOOC will be considered for all students.

End Semester University Examination:

The students successful in the online examination the mark obtained in the examination will be considered for the end semester examination.

For others, the Continuous Assessment Examination will be conducted by the department and marks will be awarded

PROJECT PHASE-I

Continuous Assessment:

Description				
Attendance	Review1	Review2	Guide mark	Total
15	30	30	25	100

End semester University examination

Report	Presentation	Viva Voce	Total
40	40	20	100

RESEARCH PUBLICATION

Continuous Assessment:

Review1	Review2	Guide/Mentor	Total
40	40	20	100

End semester University Examination:

Relevance of published paper	Presentation	Viva Voce	Quality of Publication(Scopus/Web of science/UGC care/peer Reviewed journals/Conference Proceedings.	Total
30	20	20	30	100