SCHOOL OF SCIENCE AND COMPUTER STUDIES
&
SCHOOL OF ENGINEERING & TECHNOLOGY

MASTER OF COMPUTER APPLICATIONS (MCA)

PROGRAMME REGULATIONS-2024

INDEX

REGULATIONS GOVERNING

MASTER OF COMPUTER APPLICATIONS DEGREE PROGRAMME

[MCA]

Based on Choice Based Credit System (CBCS)

DEFINITION OF KEY WORDS:

1. **Academic Year:** Two consecutive semesters (one odd followed by one even) constitute one academic year.

2. **Audit Courses:** Courses, outside the prescribed range of credits required for the degree, the students can register if interested to supplement their knowledge/ skills.

3. **Accelerated Credit Course (ACC):** Credit Courses taken up prior to the commencement of the Programme by a student.

4. **Choice Based Credit System (CBCS):** The CBCS provides choice for students to select from the prescribed set of courses viz. Core courses, Core Elective courses, Advanced Core courses and Elective courses.

5. **Course:** Referred to as 'papers', is a component of a programme, with defined learning objectives, outcomes and number of credits. A course may be designed to comprise lectures/ assignments/ tutorials/ laboratory work/ field work/ outreach activities/ project work/ self-study/ vocational training/ viva/ seminars/ term papers/ presentations/ quiz etc. or a combination of these as defined in the Scheme of Teaching. The course credits vary depending on the required teaching-learning hours to accomplish the learning outcomes, specified in the course syllabus.

6. **Credit:** A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is generally equivalent to one hour of lecture or two hours of tutorial/ practical work/ field work per week. It may also be pre-defined otherwise in any coursework.

7. **Credit Based Semester System (CBSS):** Under CBSS, the requirement for awarding a degree or diploma or certificate is prescribed in terms of number of credits to be earned by the students.

8. **Credit Point:** It is the product of grade point and number of credits for a course.

9. **Cumulative Grade Point Average (CGPA):** It is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points earned by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places. However, the CGPA may be calculated from second semester onwards to facilitate students to know their academic progress.

10. **Dean/Director:** Dean/Director of the School of Science & Computer Studies and School of Engineering & Technology of the University.

11. **First Attempt:** If a student has completed all formalities and become eligible to attend examinations and has attended at least one head of passing, such attempt (first sitting) shall be considered as first attempt.

12. **Grade Point:** It is a numerical weightage allotted to each letter grade on a 10-point scale.

13. **Letter Grade:** An index of the performance of students in a said course. Grades are denoted by letters.

14. **Passing Standards:** A student is passing a Course only when getting GP greater than or equal to 05 (P Grade). A student is declared successful at the Semester-end or Programme-end only when getting SGPA or CGPA equal to or greater than 5.00 respectively, with none of the Courses registered in a Semester(s) having either F-RA or F-RR Grade

15. **Programme:** A planned series of events/activities comprising of a combination of courses leading to the award of the degree MCA.

16. **Programme Council:** The committee consisting of the Director of the programme, HOD and the concerned faculty members from each cadre.

17. **Semester:** Each semester will consist of 15 to 18 weeks of academic work equivalent to about 90 teaching days. The odd semester may be scheduled from August to November/ December and even semester from January to April/ May, or as may be declared by the University.

18. **Semester Grade Point Average (SGPA):** It is a measure of academic performance of student in a semester. It is the ratio of total credit points secured by a student in various courses registered in a semester and the total course credits taken during that semester. It shall be expressed up to two decimal places.

19. **Transcript, Grade Certificate and Grade Card:** Grade card shall be issued to candidates indicating the programme details (Course code, title, number of credits, grade secured and grade points) for all the registered courses after every semester. On successful completion of all courses/earning credits, specified in a semester, the grade certificate is issued indicating the programme details along with SGPA of that semester and CGPA earned till that semester. Transcripts to the successful candidates shall be issued after successful completion of the programme with required credits earned.

20. **University:** CMR University, Bangalore.

REGULATIONS

24PGCD 1.0	**TITLE AND DURATION OF THE PROGRAMME**
24PGCD 1.1	The Post Graduate Programme covered under these Regulations are: Master of Computer Applications, abbreviated as MCA.
24PGCD 1.2	The MCA programme shall be of two academic years duration and organized in four semesters, with each semester having duration of about 15 to 18 weeks.
24PGCD 1.3	The annual Academic Calendar of events in respect of the Programme of study approved by the Academic Council, shall be notified at least a month before the commencement of each academic year. It is mandatory for students, faculty members and all concerned to strictly adhere to the Academic Calendar for completion of academic activities. Academic Calendar shall be displayed on the homepage of the University website.
24PGCD 2.0	**ELIGIBILITY FOR ADMISSION**
24PGCD 2.1	The rules specified in the following clauses shall be followed, but the orders issued from the Government/the regulatory bodies from time to time shall prevail.
24PGCD 2.2	Admission to First semester MCA shall be open to the applicants who have passed B.C.A/ B.Sc. (Computer Science)/ B.Sc. (IT) / B.E. (CSE)/ B.Tech. (CSE) / B.E. (IT) / B.Tech. (IT) or equivalent Degree. **OR** Passed any graduation degree (e.g.: B.E. / B.Tech. / B.Sc / B.Com. / B.A./ B. Voc./ etc.,) preferably with Mathematics at 10+2 level or at Graduation level Obtained at least 50% marks (45% marks in case of candidates belonging to reserved category) in the qualifying examination.
24PGCD 2.4	**Lateral Entry Admissions:** Depending upon the academic and physical facilities available in the institutions, the university may admit a certain number of students directly to the second year of the programme, if the student has either 1) Successfully completed the first year of the same programme in another recognized Institution, or 2) Already successfully completed other equivalent programme in a recognized university/ institution and desirous of (and academically capable of) pursuing another degree programme in a related/ allied subject.

24PGCD 3.0	**CHOICE BASED CREDIT SYSTEM AND ACADEMIC PROCESS**
24PGCD 3.1	**Odd & Even Semesters and Summer Term:** The University follows the Choice Based Credit System and the Semester Scheme. There are two regular semesters and one additional semester in an academic year. The semester that begins in August (August to November/ December) is known as the Odd Semester and the semester that begins in January (January to April/May) is known as the Even Semester. During the summer vacation (May/June to July), the Summer term is conducted to offer courses as per 24PGCD 3.2.
24PGCD 3.2	**Summer Term:** The summer term is additional semester that is conducted during an academic year. However, during a summer term, a limited number of courses maybe offered to enable the students to clear their backlog courses (Fail - Re Registration(F-RR) and/or register for additional regular credit courses on audit basis, subject to strict adherence to the following guidelines: 1) The Program Council shall identify the courses to be offered along with the Course Instructor and recommend offering of such summer course (s) to the Dean/Director for consideration. The identified faculty members shall offer the courses only on approval by the Dean/Director. 2) The course is offered in the same manner as a regular semester course without compromising the course requirements in terms of knowledge delivery, course work, assessment and evaluation. The University shall notify the fee payable by the students for the summer semester courses. 3) The duration of the course is six to eight weeks. The registration, examination, assessment and grading etc. are done in the same way as is done for regular semester courses. The total number of contact hours for the courses remains the same as that during the regular semesters, and therefore, the courses are run at an accelerated pace. The Academic Calendar specially made in this connection shall be strictly followed. 4) The dropping of a Summer Course is permitted within 7 days from the first lecture of the course. However, the registration fee paid for the course is not refundable. 5) Time slots will be assigned and notified by the Dean/Director/Registrar (Evaluation) as done for the regular semester courses. 6) A notified summer course can be withdrawn if the number of students registered for the course is less than five. 7) a) A student can register up to a maximum of 15 credits or 4 courses (whichever is less) in any summer semester, depending on his/her academic standing. b) Students who have who have completed the programme can register for all semester courses up to a maximum of 20 credits or 6 courses (whichever is less) in any summer term before completion of maximum duration of the programme. 8) Courses offered in a summer semester will be treated as equivalent to a regular semester courses for all accounting purposes.

24PGCD 3.3	**Curriculum:**
	1) Every Programme has a prescribed course structure which, in general terms, is known as the Curriculum or the Courses of Study or the Scheme of Teaching and Evaluation. It prescribes all the courses/ laboratory/ other requirements for the degree and sets out the nominal sequence semester wise. It also provides the syllabus and a list of text/ reference books (or other learning material sources) for each course.
	2) The University shall not only lay down the syllabus for each course, but also the manner of its implementation, namely, through lectures, tutorials, laboratory sessions, seminars, field work, projects and such other activities.
	3) The Courses of Study details are updated every semester and are made available at the School's page of the University website: http://www.cmr.edu.in/.
	4) Curriculum may also include SWAYAM or Massive Open Online Courses (MOOCs), offered by premier Institutions worldwide. However, selection of SWAYAM or MOOCs, if any, shall always be within prescribed guidelines of the relevant regulatory bodies.
24PGCD 3.4	**Course Credit Structure:**
	1) A certain quantum of academic work, measured in terms of credits, is laid down as the requirement for completion of degree in the different programme and the available specialization areas. A student earns credits by satisfactorily completing courses/ other academic activities every semester.
	2) The credits are distributed semester wise, as prescribed in the Scheme of Teaching and Evaluation for each of the programme. The courses generally progress in sequences, building competencies as per the course learning outcomes. The positioning of a course indicates certain academic maturity on the part of the students.
	3) Some courses do, in addition, specify passing in other courses, offered earlier in the programmes as prerequisites for the course.
	4) Students are required to follow the semester wise schedule of courses specified in Scheme of Teaching and Evaluation; they do, however, have freedom to follow alternative schedules to optimize their academic profile with additional courses, keeping the requirements for each course in mind. For students with backlog courses, such rescheduling may even become necessary. Such departures from suggested schedules need to be done very carefully, and always with advice from the Faculty Adviser and upon approval from competent authority.

24PGBD 3.5	**Courses:**
	There will be following types of courses in a programme, namely in line with AICTE / UGC guidelines.

1) Core Courses (CC): including essential foundation and functional Computer Applications skill courses, considered to be useful for all Computer Applications graduates irrespective of their choice of elective group/ specialization.

2) Core Elective (CE): including additional knowledge and skill courses, considered to be useful for developing additional skills/ competencies, irrespective of elective group/ specialization.

3) Advanced Core (AC): including knowledge and skill courses, considered to be useful for developing Computer Applications skills / competencies with inter-functional perspectives in Computer Applications.

4) Elective Courses (EC): including knowledge and skill courses focusing on function/ sector specific Computer Applications skills / competencies leading to focused study in an elective group/ specialization area.

5) Project work/ Internship/ Seminars/ Dissertations can also be offered as independent course in the programme subject to allocation of required credit hour allocation to the course. The requirements for Seminar/ Project/Internship/ Dissertation based courses will, be as specified in the course-guidelines/details

6) MOOC Courses: These courses are online credit courses that a student may choose and pursue in different semester of the programme. The number of courses that a student may choose, credit allocation, the duration, the category of the course (Open /Disciplinary / Allied Disciplinary / Inter Disciplinary) and the mode of assessment of the course is as specified by the Scheme of Teaching and Evaluation of the Programe. The course/s chosen by the student shall be approved by the Dean/Director before formally registering in the respective portal prior to the commencement of the respective semester.

The Courses of the Programme are further classified as follows:

1) **Program Core (Credit Courses):** Each academic programme is divided into Program Core or Common core courses which are further divided into mandatory and choice segments, with levels within them.

The Program Core courses are broadly categorized into Foundation, Electives and Interdisciplinary. Foundation, Elective and interdisciplinary courses are discipline specific or allied to the program. Foundation courses are mandatory courses that are offered through the period of study of the program. Foundation courses are offered as fundamental, intermediate and advanced courses based on the prerequisite and difficulty level (100 Level / 200 Level / 300 Level etc.) of

the course. Elective courses are a basket of courses from which the student gets to choose. Elective courses are either specialization courses or generic courses. Elective courses include mini projects, dissertations, internships and capstone projects. Students also have the option to choose from a set of interdisciplinary courses which are varied from their discipline and offered by other Schools of Studies of the University.

Mandatory segments are those which lay a firm foundation of the knowledge required to complete a programme in the chosen domain, ending with a multifaceted assignment that serves as a culminating academic and intellectual experience for students, typically during their final year.

Choice segments are those which a student could opt for to specialize further and / or to improve their interdisciplinary skills.

All segments carry credits, and the students are expected to earn the minimum number of credits in their coursework towards program core to earn the degree.

2) **Common Core (Credit Courses):** Common Core Curriculum (CCC) courses are to be pursued by all students of the University regardless of their School of Study. It also encourages students to explore themselves and issues of fundamental importance to society through the Common Core Curriculum (CCC) courses. Students are expected to earn a certain specified number of credits in their coursework towards the Common Core Curriculum (CCC), during their academic programmes. While some courses are in workshop mode, which can be completed over a few days at a stretch, there are other courses which are offered for a specific number of hours per week throughout a semester.

Community Service Program are activities implemented under the Common Core Curriculum in which the students have to complete a minimum number of volunteering hours in a semester by rendering services to the society and submit a Reflection Record (RR).

The Community Service Program is a 1 credit course. A student shall engage in a minimum of 30 hours of community service to earn a credit. Totally 02 Credits are allocated for the Community Service Program (01 Credit each to be earned in First and Second Semesters of the Program). On completion of the minimum number (30) of hours of volunteering activities and on the submission of the Reflection Record (RR) in a particular semester, the student is evaluated based on the RR and Viva-voce for 50 marks and is treated as Continuous Internal Evaluation (CIE) assessment component. This marks is reflected in the final semester and included in the computation of the SGPA. The credit earned is also reflected in the final semester. In case, the student is not able to complete the

stipulated number of hours of volunteering activities in a particular semester, he may approach the authorities with valid reason to request for completion in subsequent semester and undergo the CIE and obtain the Credit.

3) **Common Core (Non-credit Courses) -** Graduate Requirement (GR) Courses: These are courses specified by the programme, wherein completion of the course is considered mandatory to qualify for the award of the Degree in alignment to nurture Community Connect & Holistic Learning. These courses do not carry any credit/s.

4) **All Courses** embedded in the academic programmes, where the students must ensure that they attend a minimum attendance percentage as prescribed.

5) **Advanced Course:** Courses that involve higher and more complex levels of knowledge and understanding than introductory or foundational learning. It means the student has attained a level of knowledge and understanding of a particular area or topic that goes beyond basic terminology and definitions and is ready to be involved in Analysis, Synthesis and Evaluation of information related to a specific topic or area of learning.

Courses under various categories can be further classified as:

- **100 Level Courses**: These courses offer an introduction to a subject area and are designed for students in the first year of study. These courses have no prerequisites and are generally courses defining basic concepts or presenting the terminology of a discipline

- **200 Level Courses**: These courses are built on previous units and are normally taken in the second year or later; they may also be available to students with advanced prior knowledge. They are Courses of intermediate college-level difficulty; courses with 100-level course(s) as prerequisite(s)

- **300 Level Courses**: These courses are usually taken in third year or later, after 200-level study in the area. They may also be available to students with advanced prior knowledge. They are courses of advanced college-level difficulty offered for students clearly interested in the discipline or in any stream of the discipline

- **400 Level Courses**: These units of study are advanced courses and are normally taken in the third year or later as the final elements of a three year or four year degree or an integrated degree. The level indicates that the student will be demonstrating coherence and breadth or depth of knowledge and skills. The student may need to have completed a prerequisite course to study a 400 level course.

	• **500 Level Courses:** These are foundation level courses for higher education qualifications, usually taken in the first year of the masters or postgraduate degree programmes. These are courses meant for students aspiring to specialise in a discipline and would have prerequisites to study a course at this level, which would have been covered in the core curriculum at the bachelor's degree programme in the same discipline.
	• **600 Level Courses:** These courses are usually opted for at the second year of the masters or postgraduate degree programmes, which enhance the learning experience of the previous units. The difficulty level is clearly higher and the student is expected to demonstrate a certain level of proficiency and competence in grasping and interpreting the knowledge gained in the discipline at this level.
	• **700 Level Courses:** The courses prescribed at this level serve as a culminating academic and intellectual experience for students, and are usually taken towards the final semesters of the masters or postgraduate degree programmes where they acquire the skills and knowledge to analyse, evaluate, and solve challenges akin to those faced in real life situations, resulting in achieving mastery in the discipline.
24PGCD 3.6	**Seminars:** Some Programmes may prescribe Seminar as a requirement for the degree. Seminar may be an assessment component or a course itself wherein the student is expected to do an in-depth study in a specialized area under the guidance of a faculty member. This may include surveying published technical literature, understanding different aspects of the problem and arriving at a status report. While doing a seminar, the student is expected to: critically analyze works of various authors/ researchers; learn the investigation methodologies, study concepts, techniques and the results presented in these papers; and submit a seminar report. It is mandatory to give a seminar presentation before a panel constituted for the purpose
24PGCD 3.7	**Project Work/Dissertation and Summer Internship Program (SIP):** Project work/Dissertation and/or SIP is considered as a special course involving application of knowledge in solving / analyzing /exploring a real-life situation/ difficult problem. A Project/ Dissertation work would be for specified number of credits, as prescribed in the Scheme of Teaching and Evaluation. A Project/Dissertation work may be given in lieu of a discipline specific elective paper. Summer Internship Program, wherever needed, may be introduced as a (or a part of) Project.

24PGCD 3.8	**1) Audit Courses:**
	A student desirous of additional exposure to a course, without the rigors of obtaining a good grade, 'audits' a course. The minimum requirement of attendance for an 'Audit Course' is 75%, with any additional requirements as set by the instructor such as submission of assignments and minimum performance in some of the in-semester evaluations. Auditing of courses during regular semesters from 3rd semester onwards is permitted under the following conditions:
	a) Students without any backlogs will be permitted to 'Audit' a course. A course can be audited provided the course is offered in the semester as a credit course for others, and there is no slot clash. Prior permission of the Instructor/Dean/Director is required.
	b) Audit courses would be restricted to a maximum of two (2) courses per student in the entire period of the programme.
	c) The instructor would award the 'AU' grade, if the attendance is satisfactory and additional requirements, as set out by the instructor, are met. If the attendance and performance is not satisfactory, the instructor will award 'No Grade'. The grade 'AU' does not carry any grade points and therefore does not figure in SGPA/ CGPA calculations. However, students who have earned grade in Audit courses attending all the components of examination and evaluation can also be considered for credit in case of requirement.
	The course successfully completed in Audit mode will be reflected in the Semester Grade Card, Grade Certificate and the Transcript as Audit Course.
	2) Accelerated Credit Course (ACC):
	Accelerated Credit Courses may be taken up prior to the commencement of the Programme by a student. A student can take at most 2 Accelerated Credit Courses and can acquire 1 credit from each. These Accelerated Credit Courses are included under the Programme and shall be treated in first and second Semester (1 in each Semester as acquired by the student) of the programme. These courses are given credits upon requirement for acquiring a degree as specified in 24PGCD9.1 or shall be considered as additional credits above the prescribed minimum credit requirements of the programme. These courses are reflected in the Grade Certificate/Transcript with credits.

24PGCD 3.9	**Registration:**
	It is mandatory for every student to register for a semester to attend various courses/ earn credits, using the prescribed Course Registration Form (CRF), till he completes his programme. The registration shall be completed on or before the prescribed last date for registration announced in the academic calendar.
	1) On joining the Programme, each student is assigned to a Faculty Adviser or an Advisory group. A student shall register for required courses each semester with prior permission of the Faculty Adviser.
	2) The student can register for courses he intends to take during a given semester (including courses in summer semester) on the basis of his plan for each Programme, as given in the Scheme of Teaching and Evaluation and as per the advice given by his Faculty Adviser.
	3) The Faculty Adviser is expected to discuss with the student his academic performance during the previous semesters and then decide the number and nature of the courses for which the student can register during the semester within the framework of the Regulations.
	4) The Faculty Adviser may advise the student to drop one or more courses/activities based on his academic performance. The Faculty Adviser may even advise a reduced load program over several semesters for students with poor performance at the end of the first semester/year.
	5) Students are not permitted to reregister for course/(s), which they have already passed.
	6) The registration is deemed to be complete only on approval by the Dean/Director.
	7) Without registration, any academic activity (course/seminar etc.) undergone by a student will not be counted towards the requirements of his degree.
	8) Students having outstanding dues to the University or a hostel shall not be permitted to register.
24PGCD 3.10	**1) Procedure for Registration:**
	The procedure involves the following steps:
	a) A student is required to register for all the courses listed in the curriculum for the first semester.
	b) The students shall decide on the courses to be registered during the ensuing semester immediately after their SEE examinations as per the advise of their Faculty Advisor.
	c) They shall submit a print out of the completed CRF, duly attested by the faculty advisor to the Dean/Director through the department office within the date notified by the University for registration.

	d) Every student from II semester onwards is required to register for a minimum of 20 credits and a maximum of 28 credits. or as per the requirement of any specific semester. **2) Registration for second and subsequent semesters:** a) From second semester onwards, registration is dependent on the academic standing of the student. A student with a low academic standing registers for the academic load specified by the Faculty Adviser. In addition he may add one more course (3-5 credits) towards additional learning or to clear backlog courses, without this being considered an overload. b) Students with average academic standing are advised not to attempt full load. Faculty Advisers after careful scrutiny will advise academic loads depending on previous performance. **3) Late Registration:** Registration beyond the last date may be permitted only in special cases till the date specified in the Academic Calendar, on payment of a late registration fee.
24PGCD 3.11	**Registration for Summer Semester Courses:** Students are permitted to register for courses during summer semester under the regulation specified by 24PGCD 3.2, on payment of prescribed registration and course fees
24PGCD 3.12	**Course substitution:** In case a student obtains E grades or drops courses due to a valid reason or fails in a course, he may like to substitute courses in order to complete the course requirements within the stipulated duration. Following are the guidelines for course substitution: 1) Course substitution is not permitted for Core Courses. The student has to reregister for the same courses and complete them. 2) An elective course may be substituted by another elective course from the same group.
24PGCD 3.13	**Dropping of a Semester:** 1) A student may opt or be advised to drop an entire semester, with prior approval of Programme Council due to the following reasons: a) A student may seek a semester drop, due to severe personal health problem, unavoidable family commitments or other valid reasons beyond his control, on advice from the Faculty Adviser, prior to the commencement of the semester itself.

	b) During a registered semester, if a student finds that he is unable to cope up with the studies and/or does not have sufficient exposure to most of the courses registered in that semester due to severe health problem or some other valid reasons beyond his control, he can opt to drop the entire semester, on advice from the Faculty Adviser.
	2) In all cases of severe health problems, medical certificate issued by a University recognized Medical Practitioner is essential. In all other cases, requests for dropping the semester should be accompanied by supporting documents as required.
	3) Such break from studies is normally not permitted for a continuous period in excess of one year.
	4) Not registering for any semester before the last date for registration without prior approval of the Dean/Director will result in automatic dropping of semester leading to temporary discontinuation of the programme.
	5) The credits of the dropped semester shall be earned subsequently by registering to the courses specified in the Scheme of Teaching and Evaluation or equivalent courses when offered next.
24PGCD 3.14	**1) Faculty Adviser:** On joining the University, a student or a group of students' is/are assigned to a Faculty Adviser from the concerned programme. Students are advised to consult the Faculty Adviser on any matter relating to their academic performance and the courses they may take in various semesters/ summer semesters. Faculty Adviser guides the students to complete their courses of study for the required degree in a smooth and satisfactory manner.
	2) Role of the Faculty Adviser: The Faculty Adviser guides the students to complete their courses of study for the required degree in a smooth and satisfactory manner. For effective utilization of the opportunities for additional academic accomplishments, planning of the individual's academic progress needs careful consideration, and constant consultation with the Faculty Advisers is imperative. Thus, the role of the Faculty Adviser is of immense importance. The Faculty Adviser is the person whom the parents/ guardians should contact for performance related issues of their ward. The Faculty Advisor shall a) Guide the students about the rules and regulations governing the courses of study for a particular degree.

b) Advise the students for registering courses as per prescribed curriculum or otherwise but within the scope of the rules and regulations prescribed by the University from time to time. For this purpose the Faculty Adviser has to discuss with the student his academic performance during the previous semester and then decide the number and nature of the courses for which he can register during the semester.

c) Approve the CRF by attesting same, before the prescribed last date.

d) Advice students to overload/ drop one or more courses/ activities based on his academic performance.

e) At the end of the first semester/ year, may even advise a reduced load programme for a poorly performing student. This reduced load programme may spread over several semesters subject to minimum load for the semester and completion of the degree programme within the prescribed maximum period by registering in summer terms. Such reduced load programme is to be prepared by the Faculty Adviser in consultation with the Student and his parent and the Faculty Adviser has to recommend the same through the Programme Council to the Dean/Director for consideration and approval before the commencement of the semester.

f) Pay special attention to weak students and carefully monitor performance of students recommended for slow track option.

g) Advice students for Course Adjustment/ Dropping of courses during the Semester within the stipulated time frame given in the Academic calendar.

h) Advice students seeking semester drop either during the ongoing semester or before the commencement of the semester. Ensure strict compliance of rules and regulations laid down for this purpose. Recommend the cases to the Dean/Director for consideration.

i) Make revised plan of study for weak/bright students based on their semester wise performance.

j) Suggest modalities for course/credit requirements for the students recommended for exchange programme.

k) Provide guidance and liaison with the parents for their improved performance.

l) Ensure that students are not permitted to re-register for courses, which they have already passed.

m) Inform students that any academic activity (course/ Laboratory/ seminar/ project/ noncredit requirement etc.) undergone without proper registration will not be counted towards the requirements of his degree.

n) Strictly warn students that if he fails to register during any semester without prior approval, his studentship is liable to be cancelled.

	0) Keep the students updated about the Academic Administration of CBCS system at the University.
24PGCD 4.0	**ATTENDANCE REQUIREMENT**
24PGCD 4.1	Attendance in the class is compulsory and is monitored. The University expects 100% attendance. Each Course is considered as a unit for attendance requirement and, 1) The minimum number of lectures, tutorials, seminars and practicals which a student shall be required to attend for eligibility to appear at the SEE shall not be less than 75% of the total number of lectures, tutorials, seminars, practicals, and any other prescribed requirements. 2) If a student obtains less than 75% attendance in any one or more of the courses, he shall not be permitted to appear for the SEE of those courses and he shall re-register for them in subsequent academic semester/s when offered and obtain passing grades, subject to 24PGCD 4.1 (1).
24PGCD 4.2	The basis for the calculation of attendance shall be the period prescribed by the University in its Academic Calendar of events. For the first semester students, the same is reckoned from the date of admission to the programme as per allotment from University.
24PGCD 4.3	The Dean/Director shall inform the students about their attendance position periodically so that the students shall be cautioned to make up the shortage. The Dean/Director shall submit the list of students who have been detained for shortage of attendance by the end of the semester to the Registrar (Evaluation) with a copy to the Registrar. It may be noted that mere omission by Dean/Director to inform the student about the shortage of attendance shall not entitle him to appear for examination.
24PGCD4.4	**Temporary Discontinuation of programme:** A student, who wishes to temporarily discontinue the programme and continue subsequently, has to obtain prior permission from the University by applying through the Dean/Director. Such student shall take admission once again to the same semester in the following academic year or later. However, such student shall pay the tuition fee and other fees for the entire academic year; and shall complete the programme as per 24PGCD 10.1.

24PGCD 5.0	**EXAMINATIONS AND EVALUATION**
24PGCD 5.1	1) CIE and SEE constitute the major evaluations prescribed for each course, with only those students maintaining a minimum standard in CIE are permitted to appear in SEE of the course.

2) CIE and SEE to carry 50% weightage each, to enable the course to be evaluated for a total of 100 marks, irrespective of its credits.

3) The evaluation system of the program is comprehensive & continuous during the entire period of Semester, both by internal faculty (who is / are teaching the course) & also by the external examiners (who have requisite expertise in the domain / course area).

For a course, the evaluation and grading will be on the following parameters:

A	Continuous Internal Evaluation (CIE)	
A1	Continuous and Comprehensive Evaluation (CCE)	30 % marks
A2	Internal Assessment Tests (IAT)	20 % marks
	Total of CIE (A1+A2)	50 % marks
B	Semester End Examination (SEE)	50 % marks
	Total of CIE and SEE (A + B)	100 % marks

24PGCD 5.2	**Continuous Internal Evaluation:**

1) The CIE will carry a maximum of 50% weightage of total marks of a course. Before the start of the Academic session of each semester, in addition to Internal assessment test, a faculty may choose for his course: a minimum of three and a maximum of four of the following assessment methods with suitable weightage for each.

   a) Assignments (Individual and/or Group)

   b) Seminars

   c) Quizzes

   d) Group Discussions

   e) Case studies/Case lets/Case Discussions

   f) Practical orientation on Design Thinking, Creativity & Innovation

   g) Participatory & Industry-integrated learning

   h) Practical activities / problem solving exercises

   i) Class presentations

   j) Analysis of Industry/Technical/Business Reports

   k) Reports on Guest Lectures / Webinars / Industrial Visits

l) Industrial / Social / Rural projects/Field work

m) Participation in Seminars/ Academic Events/Symposia, etc.

n) Any other academic activity suitable for the course is approved by authority

2) The faculty will submit the 'CCE Assessment Plan' to the Dean/Director for approval and notify the same along with the course syllabus before the start of semester. The total marks of the above three or more assessment components shall be scaled down to 30% of total marks of the respective course.

3) To assess the students in a course under IAT component, two tests will be conducted in a semester. Each test will be conducted for 20 marks. The average marks obtained in these two tests will be taken as IAT Marks. If a student fails to attend both the IAT on the scheduled date due to any unavoidable circumstances, and produces documentary evidence, the faculty member, upon approval of the Dean/Director, shall conduct one additional test at the end of the semester covering the syllabus of the test for which he was absent.

4) The CIE marks awarded to students at different stages during the course shall be displayed on the notice board of the concerned School to enable the students to point out any discrepancies. After due corrections, if any, faculty shall upload the CIE marks in the University's ERP system and a hard copy of the same shall be submitted to the Registrar (Evaluation) of the University duly signed by the concerned faculty and the Dean/Director, before the commencement of semester end examinations.

5) The student shall obtain a minimum of 50% of marks allotted for CIE in a given course to be eligible to appear for the SEE in that course.

6) If a student is unable to secure a minimum of 50% in CIE marks in any course, he shall not be eligible to take up SEE/ viva-voce examination in that particular course. It shall be the responsibility of Dean/Director to scrutinize the list of candidates and permit only the eligible students to take up SEE. In the event of an ineligible student inadvertently being allowed to appear for the theory/viva voce examination, the result of the concerned student shall be withdrawn forthwith.

7) The list of such students, who have not secured the minimum in CIE marks, shall be sent to the Registrar (Evaluation) along with the submission of CIE marks of the successful students.

8) After the submission of CIE marks to the Registrar (Evaluation) of the University, any request for changes in the marks by the Dean/Director shall be considered by the Registrar (Evaluation) only after due approval of the Vice-Chancellor.

9) The students not obtaining 50% marks in CIE shall re-register for the course during the subsequent semester.

24PGCD 5.3	**Semester End Examination:** 1) The Semester End Examination for all the courses for which students registered during the semester shall be conducted at the end of each semester. 2) Only those students who satisfy the attendance requirement as per 24PGCD 4.1 and CIE requirement as per 24PGCD 5.2 (5) shall be eligible to appear for SEE of that course. However, in those students, whose SEE results were withdrawn as a penalty for indulging in malpractice or who had satisfactory attendance & required minimum CIE marks but could not appear in the SEE for valid reasons, shall be permitted to carry forward the attendance and CIE marks from that semester and write the SEE when ever held for the same course as offered by the concerned School of Studies. Such students shall seek permission from the Dean/Director and register for the SEE in the beginning of the semester and appear for SEE, on the dates notified by the University. Such students shall complete the course as per the sections 24PGCD 6.0 and 7.0 of the concerned Programme Regulations.
24PGCD 5.4	**Viva-Voce Examination:** For a viva-voce examination, there shall be two examiners, one internal and one external. Internal examiner shall be the course teacher/project guide, and external examiner may be a teacher/ professional who have not taught that course during the given semester at the concerned School and also not in full-time employment with the University. The Vice Chancellor, on recommendation of the Board of Studies, shall appoint all appropriate qualified examiners for any examination. In all the cases, the evaluation shall be made jointly and one consolidated marks be awarded. In the event that the external examiner does not turn up for the examination, the Dean/Director on approval of the Vice Chancellor, may appoint a suitable internal faculty to carry out the examination.
24PGCD 5.5	**Project Work:** 1) Students shall undertake project as prescribed in the Scheme of Teaching and Evaluation, individually or in a group not exceeding four students (groups only in case of capstone projects), and the project shall be carried out under the supervision of an allotted faculty. 2) All individuals/ project teams, as the case may be, shall make presentations to Project Committee notified by the Director and submit the progress reports periodically with the approval of project guide. 3) The final project dissertation shall be written adhering to International standards. The dissertation, duly signed by the concerned guide, shall be submitted to the Dean/Director with in the time notified. All students shall appear for the viva-voce examination on the project at the end of the semester.

	4) The CIE marks in the case of Project, if applicable, shall be based on the evaluation of the project dissertation as prescribed from time to time in the Scheme of Teaching and Examination. 5) Capstone Project might also be developed by students while working for their internship or mini project during earlier semesters also. Dean/Director upon recommendation would fix up framework for such carry forwarding study of mini project to capstone project.
24PGCD 5.6	**Academic Malpractice:** Academic malpractices shall be seriously viewed and appropriate action taken. In case of malpractice during any of the examinations like assignments, quizzes, tests, and other CIE components, the matter shall be reported to the Dean/Director for further action.In case of malpractice during SEE, the Invigilator shall report the matter to the Chief Superintendent, who in turn refers the matter to the Registrar (Evaluation) for further action.
24PGCD 6.0	**ELIGIBILITY FOR PASSING A COURSE**
24PGCD 6.1	**Award of Grades:** 1) The University adopts absolute grading system wherein the marks are converted to grades, and every semester results will be declared with semester grade point average (SGPA) on successful completion of all courses of that semester. 2) If there is no SEE for a course, then the CIE marks alone will be the basis for the determination of letter grade. **3)** Letter Grade Scheme for MCA
	4) The total marks obtained by the student in CIE and SEE of a course is expressed as a percentage to compute the grade points and the letter grade is awarded as indicated in the table below:

Classification			
% Marks scored in a course	**Grade Points**	**Letter Grade**	**Level**
≥ 90	10	O	Outstanding
≥ 85 < 90	9	A+	Excellent
≥ 75 < 85	8	A	Very Good
≥ 65 < 75	7	B	Good
≥ 55 <65	6	C	Above Average
≥ 50 <55	5	P	Average
<50	0	F - RA	Reappear
	0	F - RR	Re-register

Table: Marks (%) and Letter Grade relation

	Grading Criteria for Graduate Requirement Courses		
	% of Marks Scored in a Course	**Letter Grade**	**Level**
	≥ 90	O	Outstanding
	≥ 85 < 90	A+	Excellent
	≥ 75 < 85	A	Very Good
	≥ 65 < 75	B	Good
	≥ 55 <65	C	Above Average
	≥ 50 <55	P	Average
	<50	D	Unsatisfactory
	NA (Not Attended)	F-RR	Re-register

24PGCD 6.2	**Other Letter Grades:** The letter grades specified in 24PGCD 6.1 are used as student performance measures in all kinds of assessments. However, the following letter grades are also awarded under the circumstances defined below (Letter Grade: Grade Point - Circumstances). 1) F-RR: 0 - Not eligible to appear for the SEE of a course due to attendance being less than 75% and / or CIE being below 50%. To re-register for the course and appear for the SEE in the subsequent semester when it is being offered by the School of Studies. (In case of electives, course change within the group is permitted) 2) AU: 0 - Satisfactory in an Audit course 3) W: No credits – Dropped/ withdrawn (W is not a grade but only a place holder indicating that the course has been dropped/withdrawn and it has to be cleared in subsequent semesters in case it is a core subject).
24PGCD 6.3	**Passing a Course:** For pass in a course, the student shall secure a minimum of 50% of marks prescribed for that course in CIE and 50 % in SEE or viva voce examinations. However, aggregate marks combining both CIE and SEE or viva voce should not be less than 50% under any circumstances. That is, Minimum passing grade in a course (head of passing) is P.
24PGCD 6.4	**Condition for Re-Registering a Course:** 1) Students who do not satisfy the condition of 24PGCD 6.3 shall be deemed to have failed and will be awarded either 'F-RR' or 'F-RA' Grade. 2) Students who were not eligible to take up the Semester End Examination (SEE) of any semester shall be deemed to have failed and will be awarded 'F-RR' Grade and are required to re-register for the course in subsequent odd/even semesters respectively.

	3) Students who were eligible to take up Semester End Examination but have not cleared the regular Semester End Examination (SEE) shall be deemed to have failed and will be awarded 'F-RA' Grade and are required only to re-register for the Semester End Examination during the subsequent odd/even semester respectively.
24PGCD 7.0	**PROGRESSION TO HIGHER SEMESTERS**
24PGCD 7.1	1) A theory, stand-alone practical/project or Theory with practical/project shall be treated as a head of passing. 2) The Mandatory Graduate Requirement Non–credit courses (GR) shall not be considered for progression to higher semesters, award of Class, and calculation of SGPA and CGPA. However, competition of these courses is mandatory for award of the Degree. 3) There shall be no restriction for promotion to 2nd semester from 1st semester, if the student has fulfilled the attendance requirement. 4) Third semester onwards, a student is permitted to register for higher semester/level courses, if he obtains a minimum of 50% of the credits till the previous semester as per the Scheme of Teaching and Evaluation, to an extent of 28 credits in total, subjected to the condition under clause 24PGCD3.10 (1) (d). 5) Students failing to satisfy the clause (4) above, shall register for the remaining credits subjected to the condition under clause 24PGCD 3.10 (1) (d) and earn the required number of credits for progression.
24PGCD 8.0	**PASSING STANDARDS AND CLASS DECLARATION**
24PGCD 8.1	**Computation of SGPA and CGPA:** 1) Semester Grade Point Average (SGPA) will be awarded at the end of each Semester and Cumulative Grade Point Average (CGPA) will be awarded at the end of the program. However, CGPA is calculated at the end of each semester from the second semester onwards and reflected in the grade certificate for indicating the progress of the student. 2) Each course in a program is associated with number of credits (C). Based on the number of Credits for a course and obtained Grade Point (GP) for that course in a Semester, the GPA is calculated as given below: a) The SGPA is the ratio of sum of the product of the number of credits with the grade points secured by a student in all the courses taken by him and the sum of the number of credits of all the courses undergone by a student, i.e., SGPA = $\sum (C_i \times G_i) / \sum C_i$ Where C_i is the number of credits of the ith course and G_i is the grade point scored by the student in the ith course.

	b) The CGPA is also calculated in the same manner taking into account all the courses undergone by a student over all the semesters of a programme, i.e., $$CGPA = \sum (C_n \times S_n) / \sum C_n$$ Where S_n is the SGPA of the nth semester and C_n is the total number of credits in that semester. Finally the SGPA and CGPA shall be rounded off to 2 decimal places.
24PGCD 8.2	**Passing Standards:** 1) A student shall be declared successful or 'pass in a semester, only when he gets a SGPA of 5.00 earning credits as per the scheme of teaching and evaluation, with grade point of 5 or better in every registered course. 2) A student shall be declared successful or 'passed' in the entire Post Graduate programme, only when he gets a minimum CGPA of 5.00 and has completed all the graduate requirement courses as mandated in the scheme of teaching and evaluation.
24PGCD 8.3	1) **Conversion of Grade and Percentage of Marks:** Conversion formula for the conversion of CGPA into Percentage is: Percentage of marks scored, P = [CGPA earned] x 10 **2) Class Declaration:** After the conversion of final CGPA into Percentage of Marks (PM), a graduating student is declared to have passed in a) First Class with Distinction (FCD): PM ≥ 75% **(In First Attempt)** b) First Class (FC): 60% ≤ PM < 75% c) Second Class (SC): 50% ≤ PM < 60%
24PGCD 8.4	**Grade Cards, Certificates and Transcripts:** 1) **Grade Cards:** After the completion of each semester, a Grade Card shall be issued to all the registered students of that semester, indicating the Course Code, Title, Number of Credits, Letter Grade awarded and Credits earned, for all the Courses as specified in the scheme of teaching and evaluation. This may have Fail - Re appear (F-RA) or Fail - Re Registration (F-RR) grades awarded to the student. 2) **Grade Certificate:** On successful completion of all courses/earning credits, specified in a semester, the grade certificate is issued indicating the course details along with SGPA of that semester and also CGPA earned till that semester.

	3) **Transcripts:** Transcript is the consolidated statement of the academic performance of a student for all the semesters since joining the programme and is generally given to a student on completion of the programme.
	a) For those students who have taken multiple attempts to clear a course, the transcript given on successful completion of the programme will only contain earned pass grade (O to P and AU); the courses cleared subsequently will however be shown in the respective semester with Month and Year in which the student has finally cleared the course. The transcript will show only the overall CGPA based on all the courses taken by the student. Credits earned beyond the requirement for the award of the degree shall be shown as additional courses separately, indicating the grade earned by the student. Additional copies of the transcript can be obtained if needed, on request submitted along with payment of applicable fee.
	b) Students who have earned prescribed number of credits at the end of each semester/year of the programme and wants to discontinue the programme may obtain an interim Transcript at the end of that semester / year, on request and upon payment of the applicable fee. The interim Transcript will also include the failed courses, which have not been cleared at the time of issue.
24PGCD 9.0	**ELIGIBILITY FOR THE AWARD OF DEGREE, PRIZES, MEDALS AND RANKS**
24PGCD 9.1	**Minimum Credit Requirement:** 1) A student shall obtain a total of at least 96 credits as specified by the University along with satisfying the passing standards as per 24PGCD 8.2 to be eligible for the award of MCA degree. 2) If a student falls short of the minimum credit requirement of the programme by maximum 2 credits, then a maximum of 2 credits acquired through Accelerated Credit Courses shall be considered in lieu of the deficit credits for award of the Degree. 3) Formalised credits of an Audit course may be considered for credit in case of requirement.
24PGCD 9.2	For the award of Prizes and Medals, the conditions stipulated by the Donor/ University may be considered subject to the provisions of the statutes of the University for such awards from time to time.
24PGCD 9.3	For award of ranks in the programme, a minimum of 10 students should have appeared in the final semester examination. The total number of ranks awarded shall be 10% of total number of students appeared in final semester.
24PGCD 9.4	A Studentshall be eligible for a rank at the time of award of the degree, provided the student has passed in all the courses from 1st to 4th semester for MCA in first attempt.

24PGCD 9.5	For award of Rank, the CGPA secured by the student from 1st to final semester shall be considered, provided 24PGCD 9.4 is satisfied.
24PGCD 9.6	If two students get the same CGPA, the tie shall be resolved by considering the number of times a student has obtained higher SGPA. But, if it is not resolved even at this stage, the number of times a student has obtained higher grades like O, A+, A, B, C & P shall be taken into account in Rank ordering of the students.
24PGCD 10.0	**MAXIMUM DURATION FOR PROGRAMME COMPLETION**
24PGCD 10.1	The student shall complete the MCA programme within a period of four (04) academic years respectively, failing which he has to discontinue the program. The duration is from the date of admission to the program.
24PGCD 11.0	**TRANSFER OF STUDENTS/ MIGRATION OF STUDENTS**
24PGCD 11.1	Transfer of students /Migration of students from another University is permitted only at the beginning of odd semesters, subject to availability of seats within the permitted intake and subject to the prior approval of the Vice Chancellor of the University. Such students should have passed in all courses of 1st and 2nd semesters for admission to 3rd semester of MCA.
24PGCD 11.2	The students seeking admission shall have to: 1) Apply for establishment of equivalence with prescribed fees as notified by the University; and 2) Submit No Objection for admission from the migrating University before commencement of semester as notified by the University. 3) The University may prescribe fee for administrative purpose (for updating of the records), which shall be notified from time to time, for transfer.
24PGCD 12.0	**MISCELLANEOUS**
24PGCD 12.1	The academic regulations should be read as a whole for the purpose of any interpretation.
24PGCD 12.2	Wherever the words "he", "him", "his" occur in the regulations, they include "she", "her", "hers".
24PGCD 12.3	In case of any doubt or ambiguity in the interpretation of the rules mentioned in the regulations, the decision of the Vice-Chancellor shall be final.
24PGCD 12.4	The University may change or amend the regulations and/ or curriculum at any time, and the changes or amendments made shall be applicable to all the students with effect from the date notified by the University.
24PGCD 12.5	These regulations governing the Degree of Master of Computer Applications (MCA) programme of the University may be modified from time to time with the approval of statutory bodies of the University and shall be binding on all.

Sd/-	Sd/-	Sd/-
Dean/Director	Registrar	Vice Chancellor