





#### ವಿಶ್ವೇಶ್ವರಯ್ಯತಾಂತ್ರಿಕವಿಶ್ವವಿದ್ಯಾಲಯ

ವಿಟಿಯು ಅಧಿನಿಯಮ ೧೯೯೪"ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ

#### VISVESVARAYA TECHNOLOGICAL UNIVERSITY

State University of Government of Karnataka Established as per the VTU Act, 1994 "JnanaSangama" Belagavi-590018, Karnataka, India

Prof. B. E. Rangaswamy, Ph.D

REGISTRAR

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REF: VTU/MYS/CDOE/2024-25/114

DATE: 31.07 2024

#### : NOTIFICATION:

Sub: Regulations Governing the award of BBA, BCA, MBA, MCA and PG Diploma Programmes (2023 scheme) - reg

Ref: 1. Proceedings of Joint Board of Studies Meeting No. 01 (a) dated: 21-06-2024

2. EC Meeting Proceedings No. 2.2.1 dated: 17-07-2024

In accordance with the aforementioned Proceedings of Joint BOS Meeting, the Regulations governing the BBA, BCA, MBA and MCA Online Degree Programmes regulations from the academic year 2023-24 was approved vide Ref. No. 01 and subsequent approval by the Executive Council Meeting vide Ref. No. 02 for the regulations governing the award of online degrees in Bachelor of Business Administration, Bachelor of Computer Applications, Master of Business Administration, Master of Computer Applications Online Degree Programmes under the outcome-based education and choice-based credit system are hereby notified.

These regulations apply to the students admitted to the first semester (first year) of the BCA, MBA and MCA Online Degree Programmes from the academic year 2023-24 and onwards.

Sd/-Registrar

To,

The Director, VTU, Centre for Distance and Online Education, Mysuru

#### Copy to:

- 1. The Hon'ble Vice Chancellor through his Secretary, VTU, Belagavi for kind information.
- 2. The Registrar (Evaluation), Examination Section, VTU, Belagavi for kind information.
- 3. The Finance Officer, VTU, Belagavi for kind information and needful.
- 4. The I/c. Regional Director, VTU's Regional Office, Belagavi, Bengaluru, Kalaburagi and Mysuru for kind information and necessary action.
- 5. The Director (I/c) ITI SMU VTU Belagavi for information and make arrangements to upload it on the VTU web portal.
- 6. Office copy

REGISTRAR

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#### Visvesvaraya Technological University, Belagavi



#### VTU (AWARD OF MASTER OF COMPUTER APPLICATIONS DEGREE) REGULATIONS, 2023

[Under Open Learning Scheme]

Effective from the Academic Year 2023-24

Jnana Sangama, Belagavi - 590 018, Karnataka Phone: 0831 -2498100/2405468, Fax: 0831-2405467 E - Mail: registrar@vtu.ac.in, Web: www.vtu.ac.in



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VTU	(AWA	ARD OF MASTER OF COMPUTER APPLICATIONS DEGREE), 2023.			
		[Under Open Learning Scheme]			
	PRE	REGULATIONS PREAMBLE:			
		The quality of Technical Education depends on many factors but largely on-			
	ou	tcome based socially and industrially relevant curriculum, superior quality			
	mo	otivated faculty, teaching learning process, effective industry internship and			
	eva	aluation of students based on desired outcomes. To regulate, in an orderly			
	ma	nner, the process of admission, registration of students, conduct of classes,			
	tea	ching -learning, Assessment, Evaluation and Grading processes to award			
	Ma	aster of Computer Applications degree in Visvesvaraya Technological			
	Ur	niversity, Belagavi, with due consideration to the NEP-2020 policy, and			
	ap	plicable Regulations of UGC and AICTE, in exercise of the powers conferred			
	un	der Section 22 of UGC Act 1956 and under Sections [7(2) and 8(1,2, & 4] of the			
	VI	U Act 1994, the University hereby makes the following Regulations, namely:-			
23OMC 1.0	SHC	ORT TITLE, APPLICATION AND COMMENCEMENT			
	1.1	These Regulations may be called the Visvesvaraya Technological University			
		(Award of Master of Computer Applications Degree) Regulations, 2023.			
	1.2	These Regulations shall apply to all the MCA Degree Programmes			
		conducted in online mode at the University.			
	1.3	They shall come into force with effect from the date of their notification by			
		the Visvesvaraya Technological University, Belagavi.			
	1.4	These Regulations shall be applicable to the batch of students admitted to			
		the online MCA Degree Programmes of the University starting from the			
		academic session 2023-24, which shall be in force until revised or withdrawn			
		by a notification.			
23OMC 2.0	DEF	INITION OF KEYWORDS			
		In these Regulations, unless the context otherwise requires:			
	2.1	Academic Bank of Credits (ABC): The Academic Bank of Credits (ABC), is			
		a National- level facility that will promote the flexibility of the curriculum			
		framework and interdisciplinary/ multidisciplinary academic mobility of			
		students across the Higher Educational Institutions in the country with			
1		an appropriate "credit transfer" mechanism.			



2.2	Academic Year: Two consecutive semesters including intervening periods
	constitute one academic year.
2.3	Academic Session: means duration of twelve months beginning either in
	January/ February or in the month of July/ August, as the case may be, of
	every calendar year.
2.4	AICTE: means the All India Council for Technical Education, established
	under Section 3 of the AICTE Act, 1987, is a statutory body, and a National-
	level council for technical education, under the Department of Higher
	Education.
2.5	Audit Courses: This Means Knowledge/ Skill enhancing courses without
	the benefit of a grade or credit for a Course.
2.6	Branch: The specialization area of the Programme of study, like Artificial
	Intelligence and Data Science or Cyber Security and Cloud Computing etc.
2.7	Choice-Based Credit System (CBCS): The education model refers to
	customizing the Coursework by Core courses, Professional electives, Open
	electives, Skill-based ability enhancement courses, Non-Credit mandatory
	courses, Project and Internships to provide the necessary support for the
	students to achieve their goals. Under the CBCS, the requirement for
	awarding a degree is prescribed in terms of number of credits to be earned
	by the students.
2.8	CIQA: "Centre for Internal Quality Assurance" (CIQA) means a Centre
	established by the University for ensuring the quality of Programmes
	being offered in Online mode.
2.9	Commission: Refers to the University Grants Commission (UGC), New
2.10	Delhi  Continuous Internal Evaluation (CIE): (also Impare as Econostics
2.10	Continuous Internal Evaluation (CIE): (also known as Formative
	Assessment): Refers to the evaluation of student's performance in the
	course during the teaching-learning process. CIE shall be done by the
	faculty teaching the course and evaluation components may include
	tests, assignments, group discussion, quizzes, course-specific projects,
	field surveys, seminars, etc., conducted during the semester tenure with
	a weightage for different activities as specified by the University.



2.11	<b>Conventional mode</b> : means a mode of providing learning opportunities through face to face interaction between the teacher and learner in regular class room environment but does not exclude supplementary instructions if any for the learner through use of online
2.12	Course: Usually referred to as 'subject'/ 'paper' and is a component of a
	Programme with defined learning objectives, course outcomes and number
	of credits. The course credits vary depending on the required teaching-
	learning hours to accomplish the learning outcomes, specified in the course
	syllabus. A course may be designed to comprise lectures/ tutorials/
	laboratory work/ fieldwork/ outreach activities/ project work/ vocational
	training/ Viva-Voce/ seminars/ term papers/ assignments/ presentations/
	self-study components etc., or a combination of some of these.
2.13	Course Code: An alpha numeric code used to uniquely identify a course in
	the Programmes offered in the University. Three-digit number used as
	suffix with the Course Code for identifying the level of the course in the
	University. Digit at hundred's place signifies the semester in which course is
	offered and the tens place signifies type of course with unit place
	representing the sequence number in a semester in the Scheme of Teaching
	and Evaluation.
2.14	Course Evaluation: This represents the measurement of the impact of
	the teaching-learning process and offers an opportunity for improving the
	quality of learning in courses and teaching performance. Course
	evaluation is done by adopting different methods such as tests, quizzes,
	assignments, etc., during the teaching-learning period at the end of
	some modules or chapters of syllabus contents and at the end of the
	semester. That is, the Continuous Internal Evaluation (CIE) and Semester
	End Examinations (SEE) to constitute the major evaluations prescribed for
	each course.
2.15	Course Registration: It is a formal registration to Courses of study
	every semester by every student under the supervision of a Mentor (also
	called Faculty Advisor/ Counselor) to maintain proper records. Registration
	to the courses of choice is mandatory on the University portal for all the
	students.
 1	ı



2.10	Credit: Refers	to a unit or we	ightage by which	the cour	rsework is	
	measured. It re	presents the number of hours of instructions prescribed per				
	week. One cred	t is equivalent to one hour of lecture or two hours of				
	laboratory/ prac	tical/ tutorials/ self-study/ fieldwork etc., per week.				
	Explanation	For the purpose o	f this clause, a study	effort for	one credit	
	1	me required by a learner to understand the contents				
		-	om teaching or 30		uding self-	
	_		he prescribed level		, and the second	
	of that unit.		-		-	
2.17	Credit- Based	System (CBS): Re	efers to quantification	n of the cou	ırse work,	
	after a student o	completes teaching	-learning process, fo	ollowed by	passing in	
	both CIE and SI	EE.				
2.18	Credit Point: Tl	nt: This is the product of grade point (GP) and number of				
	credits for a cou	arse i.e., Credt Points (CrP) = $GP \times Credits$ for the course.				
2.19	Credit Represer	ntation:				
	Refers to Credit	rs to Credit Values for different academic activities considered,				
	as per Table -	l. Credits for a	seminar, project ph	ases, pro	ject viva-	
	voce, and interr	d internship shall be as specified in the Scheme of Teaching and				
	Evaluation.					
		Table 1.0	Credit Values			
	/1 ( /1 )			C 1:1	T ( 1	
	heory/Lectures (L) (hours/week/	(hrs/week/Sem)	Laboratory/ Practical (P)	Credits (L:T:P)	Total Credits	
	Semester)	(iii 3) Week, Seiii)	(hrs/week/ Sem)	(L.1.1)	Creates	
	4	0	0	4:0:0	4	
	3	0	0	3:0:0	3	
	2	2	0	2:1:0	3	
	2	0	2	2:0:1	3	
	2	2	2	2:1:1	4	
	0	0	2	0:0:1	1	

2.20 Cumulative Grade Point Average (CGPA): This is a measure of the cumulative performance of a student of all semesters and is computed from the 2ndsemester onwards. It is also a measure of the overall



	cumulative academic performance of a student over the entire span of
	the academic Programme. 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 registered in the semesters. It is expressed up to two decimal places. It is also a number that lies between 0
	and 10.
2.21	Dual Mode University: means the University offering programmes under
	conventional mode and also under Online mode.
2.22	e-Learning Material: means and includes contents in the form of
	structured course material, as a part of one or more courses in the Online
	Programme, in digital format delivered through Learning Management
	System, which is inter alia self-explanatory, self-contained, self-directed
	at the learner, and amenable to self-evaluation, and enables the learner to
	acquire the prescribed level of learning in a course of study, but does not
	include text-books or guide-books, as defined in these Regulations.
2.23	<b>Examination Centre</b> : means a place where examinations are conducted,
	inter alia, for assessment of the learners pursuing programmes under
	Online mode and is having the requisite infrastructure relevant
	to respective mode of education including adequate manpower
	for smooth conduct of examinations and adhering to such minimum
	standards as specified under relevant Regulations.
2.24	First Attempt: A student who has completed all the formalities in a
	semester, has become eligible to attend the SEE and has attended at least
	one head of passing, such an attempt shall be considered the first attempt.
	Even if the student is absent for all the semester exams after registering
	for SEE, such an attempt shall also be considered the first attempt.
2.25	<b>Grading</b> : Grade refers to the qualitative measure of achievement of a student
	in each course, based on the percentage of marks secured in CIE and SEE
	put together. Award of Grade is done using Absolute Grading method.
2.26	Grade Card: Refers to the certificate showing the grades earned by a
	student. A grade card shall be issued to all the registered students after
	every Semester End Examination. The grade card shall have the Programme
	details (Course code, title, number of credits, grades secured) along with
2.26	student. A grade card shall be issued to all the registered students after every Semester End Examination. The grade card shall have the Programme



	the SGPA of	that semeste	er and CO	GPA (e	except	for the fi	rst sen	nester)
	earned till tha	t semester.			_			
2.27	Grade Point (G	<b>GP)</b> : Refers t	o a num	nerical	weight	age allot	ted to	each
2.28	Learner Suppo	rt Services: m	neans and	include	s such s	services as	are pro	ovided
	by the Univer	sity in ord	er to fac	cilitate	the a	cquisition	of tea	ching-
	learning experi	ences by the	learner to	the lev	el pres	cribed by	Commi	ssion/
	AICTE in respe	ect of a progra	amme of s	tudy ur	nder Oi	nline mod	e throu	gh the
	Learning Mana	gement Syste	m platforr	n of the	Unive	rsity.		
2.29	Letter Grade:	(or simply gr	ade) is an	index	of perf	ormance	of a st	tudent
	in a said cours	se and refers	to a qual	litative	measu	re of achie	evemen	t of a
	student in ea	ich course,	based or	n the	percen	tage rang	ge of	marks
	secured in CIE	and SEE pu	at togethe	r or C	IE alon	e. Grades	are de	enoted
	by letters O,	A+, A, B+,	B, C and	1 F. T	he rub	rics attacl	hed to	letter
	grades are as	follows: <b>O</b> :	Outstandi	ng, <b>A+</b>	: Excell	ent, <b>A</b> : Ve	ery Goo	d, <b>B+</b> :
	Good, <b>B</b> : Avera	age, <b>C</b> : Pass a	and <b>F</b> : Fai	l. Addi	tional le	etter grade	es used	under
	special circums	tances are, D	<b>X:</b> Attenda	ince bel	ow 75%	, <b>AU</b> : Sati	sfactory	y in an
	Audit course, A	AB: Absent for	or the cou	rse, <b>PP</b>	: Passe	d in Non-	credit c	ourse,
	NP: Not Passed	l in Non-cred	it course, <b>V</b>	<b>V</b> : Drop	pped/ v	vithdrawn	ı <b>.</b>	
	Table- 2: Let	ter Grade and	d correspo	nding (	Grade I	oints on a	typica	1 10-
			Point	scale				
	Letter Grade	О	A+	A	B+	В	С	F
		Outstanding	Excellent	Very Good	Good	Average	Pass	Fail
	Grade Point	10	9	8	7	6	5	0
	% of Marks	90-100	80-89	70-	60-	55-59	50-	0-49
	secured			79	69		54	
2.30	<b>Mentor:</b> A Fact	ulty Advisor	allotted by	the U	niversit	y to guide	up to	about
	250 students al	oout their reg	gistration t	o the c	ourses	and progr	ession i	in the
	Programme.							



Multi Mode University: means the University offering programmes under
conventional mode and also under Open and Distance Learning
mode and/or Online mode.
<b>Notification:</b> A notification issued by the concerned Statutory Officer of the
University.
Online Mode: means a mode of providing flexible learning
opportunities by overcoming separation of teacher and learner using
internet, e-Leaming Materials and full-fledged programme delivery through
the internet using technology assisted mechanism and resources.
Passing Standards: Refers to passing a course only on obtaining the GP
greater than or equal to 05.
<b>Proctored Examination</b> : The examination conducted under the supervision
of approved person or technology enabled proctoring which ensures the
identity of the test taker and the integrity of the test taking environment,
either in pen-paper mode or in computer based testing mode or in full
fledged Online mode; as permissible in Online mode under these
Regulations.
<b>Programme:</b> An educational Programme in a particular stream/ branch of specialization which involves a planned series of events/activities for the specified courses, comprising of lectures/ tutorials/ laboratory work/ field work, outreach activities/ project work/ viva/ vocational training/ seminar/ Internships/ assignments/ presentations/ self-study etc., or a combination of some of these leading to the award of degree.
Self-Learning e-Module: For Online learning mode, means a modular unit of course material in e-learning form which is inter alia self-explanatory, self-contained, self-directed at the learner, and amenable to self- evaluation, and enables the learner to acquire the prescribed level of learning in a course of study and includes contents in the form of a combination of the following e-Learning content, namely:  a) e-Text Materials; b) Video Lectures; c) Audio-Visual interactive material; d) Virtual Classroom sessions; e) Audio Pod casts; f) Virtual Simulation; and



2.38	<b>Semester:</b> Refers to one of the two sessions of an Academic Year, each
	session being of sixteen weeks duration (with not less than 90 working
	days). The odd and even semesters shall be as per the University academic
	calendar.
2.39	Semester End Examinations (SEE) (also called Summative Assessment):
	Refers to the examinations conducted by the University covering the
	entire course syllabus. For this purpose, syllabi shall be modularized,
	and SEE questions shall be set from each module as specified by the
	University.
2.40	Semester Grade Point Average (SGPA): It is a measure of academic
	performance of a student in a semester. It is the ratio of total credit points
	secured by a student in various courses of a semester and the total
	course credits registered during that semester. It results in a number that
	lies between 0 and 10. It shall be expressed up to two decimal places.
2.41	SWAYAM: (Study Webs of Active Learning for Young Aspiring Mind)
	means the Learning Management System as specified in the UGC (Credit
	Framework for online learning courses through SWAYAM) Regulations,
	2016.
2.42	<b>Transcript, Grade Certificate and Grade card:</b> 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
	completion of the Programme.
2.43	University: Visvesvaraya Technological University (VTU), Belagavi,
	established under the Karnataka State Act as defined in the University
	Grants Commission Act, 1956.
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#### VTU (AWARD OF MASTER OF COMPUTER APPLICATIONS DEGREE)

#### **REGULATIONS, 2023**

#### [Under Open learning Scheme]

[Under Open learning Scheme]						
	REGULATIONS					
23OMC 3.0	TITLE AND DURATION OF THE PROGRAMME OF STUDY					
	3.1 <b>Title:</b> The Programme of study, which is a post-graduate Programme, shall					
		be called the degree of Master of Computer Applications (Subject of				
		Specialization), abbreviated as MCA, followed by specialization indicated				
		within brackets				
	3.2	<b>Duration:</b> The duration of the on-line Programme for MCA degree				
		shall be over a period of two academic years, organized as four				
		semesters, and each semester shall be of 16 weeks (about three and a half				
		months) in duration.				
	3.3	The University, which is a multi-modal University, shall ensure				
		that the quality of Programmes of study offered through Online mode are				
		maintained at par with standards as defined for the conventional mode of				
		teaching, in conformity with the provisions as stipulated by the Statutory				
		bodies.				
	3.4	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. The Academic				
		Calendar shall specify the period of the admission process along with the				
		academic session, last dates for course registration, course dropping, the				
		dates of continuous and end semester examinations etc. It is mandatory for				
		the students, faculty members and others concerned to strictly adhere to the				
		Academic Calendar for timely completion of academic activities. The				
		Academic Calendar shall be displayed on the Academic Office homepage of				
		the University website.				
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23OMC 4.0	AD	OMISSION PROCESS
	4.1	The University shall admit learners to its recognised Programmes only from
		the academic session specified in the Commission order.
	4.2	The University shall publish, prior to the date of commencement
		of admission to the Programme in Online mode, a prospectus
		(print and in e-form) containing the following for the purposes
		of informing those persons intending to seek admission to the University
		and the general public, namely:-
		(a) each component of the fee, deposits and other charges payable by
		the learners admitted to the University for pursuing a Programme
		in Online mode, and the other terms and conditions of such payment;
		(b) the percentage of tuition fee and other charges refundable to a learner a
		dmitted to the University in case such learner withdraws from the
		University before or after completion of programme of study
		and the time within, and the manner in, which such refund shall be
		made to the learner, complying to the Commission guidelines and
		University Statutes/ Regulations;
		(c) the number of seats approved in respect of each Programme of online
		mode, which shall be in consonance with the resources;
		(d) the conditions of eligibility including the minimum age of a learner
		in a particular Programme of study, where so specified by the
		University;
		(e) the minimum educational qualifications required for admission in
		Programmes specified by the Commission or relevant statutory
		authority or councils, or by the University, where no such qualifying
		standards have been specified by any statutory authority;
		(f) the process of admission and selection of eligible candidates applying
		for such admission, including all relevant information in regard
		to the details of test or examination for selecting such candidates for
		admission to each Programme of study and the amount of fee to
		be paid for the admission test;



	(g) details of the teaching faculty, including therein the educational
	qualifications and teaching experience of every member of its teaching
	faculty and also indicating therein whether such member is employed
	on regular or contractual basis or any other;
	(h) pay and other emoluments payable for each category of teachers and
	other employees;
	(i) information in regard to physical and academic infrastructure and
	other facilities, and in particular the facilities accessible by learners
	on being admitted to the University;
	(j) broad outline of the syllabus specified by the appropriate statutory
	body or by University, as the case may be, for every Programme of
	study;
	(k) activity planner including all the academic activities to be carried
	out by the University during the academic sessions:
	(l) Provided that the University shall publish information referred to in
	sub-clauses (a) to (k) on its website, and the attention of the prospective
	learners and the general public shall be drawn to such
	publication on its website and University admission prospectus and
	the admission process shall necessarily be over within the time
	period mentioned in the Commission Order.
4.3	The rules specified in the following clauses shall be followed for admission
	to Online MCA Programmes, but the orders issued from the Government/
	the regulatory bodies/ University from time to time shall prevail.
4.4	The intake under various categories shall be limited to the number
	sanctioned by the UGC/ AICTE, and the State Government, from time
	to time.
4.5	Eligibility for Admission:
4.6	All admissions to the Programme shall be made based on merit, if required
	an entrance test shall be conducted at the University to decide the
	merit. There shall be an Admissions Committee to oversee the process of
	admissions to the MCA Programmes, including International students,
	constituted by th Vice Chancellor, consisting of the Dean of the concerned



		Facuty as the Chairman, along with the the Head of concerned
		Department, one senior staff member of the concerned Department, the
		Director of CDOE and the Registrar as Member Secretary.
	4.7	Further, applicants from other Universities provisionally selected for
		admission shall produce an equivalence certificate from the Association of
		Indian Universities (AIU), New Delhi.
		With regard to the qualification earned from foreign countries, an
		equivalence certificate from the Association of Indian Universities is
		mandatory for admission to the MCA online Programmes. In case of
		any dispute about the equivalence in qualification earned from foreign
		countries, the decision of the University in this regard shall be final
		and binding on all concerned.
23OMC 5.0	CU	JRRICULUM FRAMEWORK AND ACADEMIC PROCESSES
	5.1	Semesters - Odd and Even:
		An eligible applicant may take admission to either odd or the even
		semester for the academic session beginning in July or January
		respectively. The University follows the Choice Based Credit System and
		the semester scheme. There are two regular semesters in an academic year.
		The semester that begins in August (August to December) is known as the
		Odd Semester and the semester that begins in January (January to May) is
		known as the Even Semester.
	5.2	Instructional Design
		a) Instructional Design includes Curriculum design, detailed syllabi,
		duration of the Programme, faculty and support staff requirement,
		instructional delivery mechanisms, identification of media- print,
		audio or video, online, computer aided, assessment and evaluation of
		students and student support service systems. The University shall
		define the instructional design for each of the academic
		Programmes to be offered through the Online Mode and shall
		map the credit hours for each course or module of the Programme.



	b) The University may evolve the curricular aspects, assessment criteria
	etc., for the award of Degree adopting the following requirements,
	namely:-
	(i) The course content for each course shall be clearly defined, each having
	modular e-content, delivery online in a structured format, with
	clearly spelt out learning outcomes which learners are expected
	to attain at the end of the module.
	(ii) Programmes
	(including courses in a Programme) architecture shall permit the online
	teacher or instructor to add multi-media enriched and interactive
	content, activities and assessments to extend learning opportunities
	and shall be easy to navigate.
	(iii) Availability of assessment mechanism -
	each course in the Online Programme shall have a precise assessment
	mechanism for the identified learning outcomes at each level for both
	continuous formative and summative assessments.
5.3	Curriculum Design and offering courses
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5.3	
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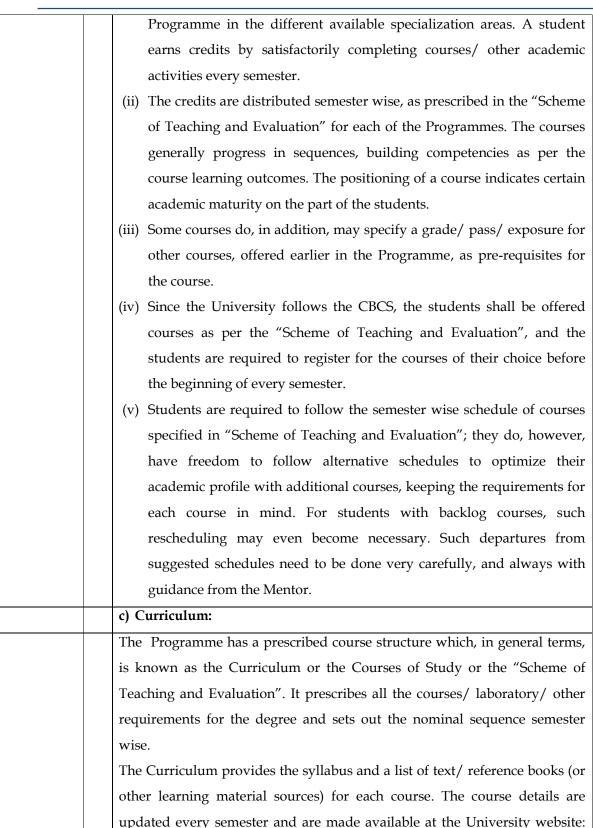
- (iii) Humanities and Social Sciences (HS): These courses may be from interdisciplinary areas like law, economics, organizational behaviour, management etc. These courses will have 1 to 3 credits per course.
- (iv) Project Work and Dissertation (PW): A project work means **learning by doing**. This means, the student shall identify a problem in a chosen field through literature survey, which involves 'assimilating' information, explore solutions identifying an optimal one, design and implement the prototype/ model, analyze its efficiency and finally prepare the dissertation on the project work. This course may have 10-12 credits.
- (v) Internship (IS): relevant to enrich professional experience. Preferably undergone at an industry/R&D organization/ IT company/ Government organization/ Business organization of significant repute for a specified period mentioned in Scheme of Teaching and Evaluation. This course may have 5-8 credits.
- (vi) Non-Credit Mandatory Courses (NM) require only a pass in each of the specified courses to qualify for the award of the Degree. These courses will have 1 to 3 credits per course.
- vii) Audit Courses (AC): The Audit course can be any credit course offer ed by the programme to which the Candidate is admitted (other than the courses considered for completing the prescribed programme credits). Audit courses are non-credit courses opted by students for self enrichment. Though, the CIE and SEE are not required, the attendance to be compulsorily satisfied, for the audit courses to find a place in the grade card without the mention of letter grade and credit.

**Note:** Seminar may be part of any of the above course types and used for student assessment as specified in the Scheme of Teaching and Evaluation of respective courses.

#### b) Choice Based Credit System (CBCS):

(i) A certain quantum of academic work, measured in terms of credits, is laid down as the requirement for completion of MCA degree







http://vtu.ac.in/onlineMCA/. Curriculum shall include Online Courses
offered including SWAYAM and other MOOC courses, approved by the
University. However, selection of such courses, if any, shall always be
within prescribed guidelines recommended in these Regulations.
d) Offering the Courses
(i) The courses offered shall be designed to have the syllabus spanning
over one semester depending on the credits allocated for them.
(ii) The Scheme of Teaching and Evaluation provides the list of courses
offered in a semester, their types, course credits in L-T-P format and the
contact hours. As per this, detailed syllabus content, hour distribution,
Text and reference Books, Assessment and Evaluation procedure shall
also be provided for all the semesters by the Board of Studies of the
respective Programmes. A course may include online references and
virtual labs as approved by the University.
(iii) The composition of courses in the curriculum may be such that having
only a theory, a theory with practical or only a practical. These carry
separate course codes and each are considered as separate "head of
passing".
(iv) The project with dissertation and Internship are treated as laboratory
courses.
(v) The Syllabus formulated shall be well structured and enable CBCS
implementation and incorporate Outcome Based Education (OBE)
framework.
(vi) The University shall provide necessary qualified faculty and other
supporting facilities to meet the standards as specified by the
concerned Statutory bodies to create proper teaching-learning
environment for the students.
e) Project work with Dissertation:
Each candidate shall carry out the project work independently as per
Scheme of Teaching and Evaluations under the guidance of one of the
faculty members of the Department. If the project is of inter-
disciplinary nature, a co-guide shall be allotted by the University from



the other concerned department.
The topic and title of the dissertation shall be chosen by the candidate
in consultation with the guide and co-guide, if any, before the
commencement of fourth semester.
The subject and topic of the dissertation shall be from the major field of
studies of thecandidate. Modification of only the title but not the field of
work may be permitted atthe time of final submission of dissertation
report during fourth semester. The Project work and Dissertation
preparation could be carried out by the students either in their work place/
Institution/ any industry/ R&D labs/ business Organizations.
f) Internship:
The Internship is an extended period of work experience undertaken
by the students aspiring to supplement their degree with professional
development. The students are allowed to prepare themselves for the
workplace and develop practical skills. The Internship shall be completed
during the period specified in the Scheme of Teaching and Evaluation.
The University shall encourage students to take up,
(1) an interdisciplinary Research Internship or Industry Internship
and
(2) a rural Internship, a work-based activity carried out to learn
practical experiences in rural areas, for the upliftment of living
standards.
The Department shall nominate a faculty guide and supervise students
under Internship.
(i) The students shall report the progress of the Internship work to the
internal guide in regular intervals and seek advice.
(ii) The Internship shall be completed within the period specified in the
"Scheme of Teaching and Evaluation".
(iii) After completion of the Internship, students shall submit a report
to the Head of the Department with the approval of both internal
and external guides.
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- (iv) With the consent of the internal guide, students shall be allowed to carry out the internship in their home town (within or outside the state or abroad), provided favourable facilities are available for the internship and the student remains regularly in contact with the internal guide.
- (v) The University shall not bear any cost involved in carrying out the Internship by students. However, students can receive any financial assistance extended by the Institution where he/she has undertaken Internship.
- (vi) Failure to undergo Internship: Completion of Internship is mandatory and it is one of the head of passing. Any student who is unable to undergo/complete the Internship during specified period shall be awarded 'F' Grade. The student, however, is permitted to submit the project dissertation and appear for Viva- Voce. Such students can register for Internship during the subsequent academic year and earn the credits on satisfactory completion of the course. The reappearance shall be considered as an attempt.

#### g) Curriculum Framework

The curriculum structure of online MCA Programme shall have essentially the above types of courses with the breakup of credits indicated against them given in Table-3 below.

Course Work - Type of Cou	rses Credits	% o total
Professional Core (PC) cours	ses;	
Relevant to the chosen speci	alization;May 40	50.00
include Laboratories		
Profession Electives(PE) cours	ses;	17.50
Relevant to the chosen spec		17.50
Project/ Seminar/ Dissertat	ion 12	15.00
Internship	6	7.50
Humanities and Social Scien	nces (HS),	10.00
Including Management, Econ		10.00
Total Credits:	80*	100.00



	*Minor variation is allowed as per need of the respective disciplines on approval of the University.				
h) Scl	h) Scheme of Teaching and Evaluation				
	The Scheme of Teaching and Evaluation shall be framed by distributing the total credits over four semesters as follows:				
Table - 4	: Semester-v	wise Alloc	cation of C	Credits	
	Semester	Credits	Total Credits	• Lecture(L): one hour/week: 1 credit	
I year	1 2	20 20	40	• Tutorial(T): Two hours/week: 1 credit	
II Year	3 4	20 20	40	Practical(P): Two hours/ week: 1 credit	
To	Total:  80  80  80  Project, Internship: cr recommended by the Un  • Credit for the Seminars part of the courses.				
i) Co	urse Load:				
numb week Cours accep	per of their ly Contact se Load of	Credits Hours (ty 18-24 Co include	being lim rpically: 3 Credits/Se 2 or 3 cree	Courses in each Semester, with the total nited by considering the permissible 5 hours/Week); For this, an average mester (e.g., 6-7 Courses) generally dits Non-Credit Mandatory Courses in	



			ship between t y of Courses			e Hours	of Study i	ndicating
			No. of Interacti	ve Sessions	Hours Materia	of Study 1	7	
S1.	Credit value the course	of No. o Weeks	Synchronous Online fCounselling/ Webinars/ Interactive Live Lectures (1 hour per week)	Discussion Forum/ asynch- ronous Mentoring	e- Tutoria l in hours	e- Content	Self-Study hours including Assessme nt etc.	Study (based on
1	2	6	6 Hours	12	10	10	22	60
2	4	12	12 Hours	20	20	20	44	120
$\begin{bmatrix} 3 \\ 4 \end{bmatrix}$	8	14	28 Hours 32 Hours	30 40	30 40	30 40	66 88	180 240
	Lea Un fro	aming Ma iversity a m availa	per cent of e- nterial shall be and remaining able e-resources ar other sources	per cent of such as Op	of the moen Edu	naterial ıcational	can be	sourced (OER),
		the Unive	ersity. Assurance Gui	delines on	learnin	g materia	als in mul	tiple me
	dia	,	um and peda		`			•
			the quality of	Programn	nes of	etudy of	fored thro	nuah
		sure mar	the quality of	Trogramm	ies or a	study of	ierea uno	Jugn



- e) The online courses should comply with the following quality standards, namely:-
- i) The courses should follow the following four quadrant approach, as per the SWAYAM Guidelines: -
  - (1) Quadrant-I is e-Tutorial; which shall contain: Video and Audio Content in an organized form, Animation, Simulations, video demonstrations, Virtual Labs, etc., along with the transcription of the video.
  - (2) Quadrant-II is e-Content; which shall contain: self-instructional material (digital Self Learning Material), e-Books, illustrations, case studies, presentations etc, and also contain Web Resources such as further references, Related Links, Open-source Content on Internet, Video, Case Studies, books including e-books, research papers and journals, Anecdotal information, Historical development of the subject, Articles, etc.

#### (3) Quadrant-

III is the Discussion forum for raising of doubts and clarifying the same on real time basis by the Course Coordinator or his team.

#### (4) Quadrant-

IV is Assessment, which shall contain; Problems and Solutions, which could be in the form of Multiple Choice Questions, Fill in the blanks, Matching Questions, Short Answer Questions, Long Answer Questions, Quizzes, Assignments and solutions, Discussion forum topics and setting up the FAQs, Clarifications on general misconceptions.

- ii) The courses shall be rich in innovative presentation techniques to ensur e that learner attention is retained.
- iii) It shall be the responsibility of the Course Coordinator to ensure that none of the graphics, animations, images, sound clips, video clips used are plagiarized or cited without formal permissions from owners.



	iv) A four- credit course shall typically have 20 hours of video content
	and 20 hours of self-study reading material.
	v) For Quadrant III for every 250 learners registered for a programme one
	Mentor can be appointed per course to facilitate the Course
	Coordinator. The Mentor shall be the subject matter expert
	adept in handling technology. The Course Coordinators and Mentors
	shall need to participate actively in the Discussion Forum. Apart
	from discussion forum other interactive platforms like web
	conferencing may also be considered.
5.5	Requirement of the Laboratory support and Library Resources
	There may be Programmes having practical component in syllabus.
	The University shall give clear guidelines about the laboratory support and
	access to virtual laboratories to the learners to perform the practical
	prescribed in the Programme. There shall be provision of a practical book
	for the learners.
5.6	Offering Online Programmes and Curriculum Transaction
	a) The Programme offered under Online mode shall conform to the
	condition that apart from the Programme delivery, other components
	such as Counselling Process, Course registration, Online Application
	Processing, examination, result declaration and fee payment shall
	also be provided through Online mode.
	b) The delivery of Online programmes shall be through the SWAYAM
	portal or any other learning platform duly approved by the
	Commission broadly complying to the features mentioned by the
	Commission.
	c) Offering Courses
	(i) The type of courses offered may be Lectures, Tutorials and Practical in
	any combination with suitable credits assigned to them. All the courses
	registered by a student under any of the above types of courses as required for award of the degree shall be considered as "heads of
	passing" which shall be Graded according to his/her performance.
	However, the Non-Credit Mandatory Courses shall be passed by a
	student for which Grades are not assigned.



	(ii) The courses for the programme shall be designed within the framework
	of UGC and AICTE guidelines by the concerned Board of Studies and
	approved by the Academic Senate of the University. The number of
	courses offered in the Programme with each of these types be decided
	as per the curriculum framework specified under clauses 5.3 (g).
5.7	Registration and Enrolment for the Courses
	a) Except for the first semester, registration for a semester will be don
	e during aspecified week before the semester end examination
	of the previous semester, as notified by the University.
	b) The registration form should have the Candidate details, course nam
	e and code, number of credits and category (core/elective/audit)
	for each course of that semester.
	c) The Faculty Adviser, assigned by the Head of the Department, shall
	counsel the students in planning their courses of study and provide
	guidance, motivation, emotional support, and enable the
	mentees to reach the desired professional and career goals.
	d) Lower and Upper Limits for Total Credits to be Registered in
	a Semester by the Students:
	A student is permitted to register for a minimum of 16 credits and a
	maximum of 24 credits in a semester. However, the minimum/
	maximum credit limit can be relaxed by the Dean of Faculty on specific
	recommendations of the concerned Faculty Advisor only under
	extremely exceptional cases.
	e) A candidate shall exercise his/her option in respect of the electives and
	register for the same before the beginning of the concerned semester.
	The candidate may be permitted to opt for change of elective subject
	within 10 days from the date of commencement of the semester
	as per the calendar of events notified by the University.
	f) Students shall be allowed to choose the elective/s, depending on their
	career plans, and there shall not be any restriction to the
	minimum number of students to be registered for an elective
	course offered in the Programme.



	g) Students shall be allowed to choose the elective/s, depending on their
	career plans, and there shall not be any restriction as regards the
	minimum number of students to be registered for an elective course.
	h) Students shall exercise their option in respect of the electives and
	register for the same before the date notified by the University. They
	may be permitted to change the elective courses within 10 days from
	the date of commencement of the semester as per the calendar of the
	University.
5.8	Prescribed Number of Credits for the Programme
	All courses prescribed by the University, except the Non-credit Mandatory
	courses, shall have credits and be considered as a head of passing for
	vertical progression. The credits fixed for the courses are awarded to a
	student on passing the courses registered by him/her.
	The total number of credits to be earned for the award of online MCA
	Degree by students admitted to the first semester of the two year MCA
	programme shall be <b>80</b> .
5.9	Re-registering for a Course
	For professional courses it is imperative that the course contents are
	modified at regular intervals. Allowing a candidate to appear for
	examination long after attending a course cannot be justified academically.
	It is therefore necessary for a student unsuccessful in passing a course in
	two successive attempts to register for the same course at the earliest or
	some other relevant course permitted by the Faculty Advisor as per the
	requirements and then appear in the examination.
5.10	Learner Participation Requirement:
	a) Courses of each semester shall be treated as a separate unit for
	calculation of the attendance/ participation of a learner.
	b) The learners shall put in a minimum attendance of 75% in each cour
	se and there shall not be any provision for condonation of attendance in
	the online Programmes.
	c) A learner, who does not satisfy the attendance requirement in a course as
	mentioned above shall not be eligible to appear for the SEE of that
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		particular course. Such a learner shall register for that course during
		the subsequent semester/ year when it is offered.
		d) The Director of the Programme shall notify regularly, the list of
		learners who fall short of attendance. The list of the candidates
		falling short of attendance at the end of the semester for each of the
		courses shall be sent to the University at least one week prior
		to the commencement of the examination for needful action.
23OMC 6.0	AS	SESSMENT AND EVALUATION
	6.1	Programmes (including courses in a Programme) architecture shall permit t
		he online teacher or instructor to add assessments to extend learning
		opportunities and shall be easy to navigate;
	6.2	The University shall adopt the guidelines issued by the Commission for
		the conduct of proctored examinations.
	6.3	The University shall have a mechanism well in place for evaluation of
		learners enrolled through Online mode and their Online Programmes
		certification.
	6.4	The evaluation shall include two types of assessments:
		a) continuous or formative assessment during a semester; and
		b) summative assessment in the form of semester end examination.
		Provided that no semester end examination shall be held in a course
		unless:
		(i) the University is satisfied that at least 75% of the Programme of
		study stipulated for the semester has been actually conducted;
		(ii) the learner has minimum participation of 75%, in all the activities of
		online Programme prior to semester end examination:
		Provided further that the curricular aspects, assessment criteria and credit
		framework for the award of Degree programmes through Online mode
		shall be evolved by adopting same standards as being followed in
		conventional mode by the dual mode University:
		Provided also that the weightage for different components of assessments
		for Online mode shall be as under:
		(1) continuous or formative assessment (in semester): Maximum 30
		per cent.



		(2) summative assessment (semester end examination): Minimum 70
		per cent.
		The University shall notify all assessment tools to be used for formative and
		summative assessments.
	6.5	Marks or grades obtained in continuous assessment and semester end
		examinations shall be shown separately in the grade card.
	6.6	The University offering a Programme in Online mode shall adopt a
		rigorous process in development of question papers, question banks,
		assignments and their moderation, conduct of examination, evaluation of
		answer scripts by qualified teachers, and result declaration, and shall so
		frame the question papers as to ensure that no part of the syllabus is left out
		of study by a learner.
	6.7	The examination of the Programmes in Online mode shall be managed by
		the examination unit of the University and shall be conducted in the
		Examination Centre as given under these regulations.
	6.8	The 'Examination Centre' shall be established as per UGC/ University
		Regulations with due approval of the Statutory authority of the University,
		subject to the following:-
		(i) The Examination Centre shall have proper monitoring mechanisms for C
		losed-Circuit Television (CCTV) recording of the entire
		examination procedure and biometric system and in case of non-
		availability of the Closed-Circuit Television facilities, the University
		shall ensure that proper videography be conducted and video recordings
		are submitted by particular in charge of examination centre to the
		University.
		(ii) The University shall retain all such Closed-Circuit Television
		recordings in archives for a minimum period of five years.
		(iii) There shall be an observer for each of the Examination Centre appointed
		by the University and it shall be mandatory to have observer report
		submitted to the University.
	6.9	The University offering Programme through Online mode shall conduct
		examinations either using technology enabled online test with all the
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	security arrangements ensuring transparency and credibility
	of the examinations, or through the Proctored Examination and in
	conformity with any other norms for such examination as may be
	laid down by the Commission;
6.10	As restriction of territorial jurisdiction is not applicable for Online learning,
	the University if recognised to enrol International learners shall endeavour
	to conduct proctored examinations for such learners;
6.11	The attendance of examinees shall be authenticated through biometric
	system as per Aadhaar details or other Government identifiers of Indian
	learners and Passports for International learners.
	"Provided that for admission of foreign or International learners, any
	National identity with photograph of their country of residence shall also be
	acceptable for authentication".
6.12	Continuous Internal Evaluation:
	a) The weightage for CIE is 30% of the maximum marks in each theory and
	practical
	courses. A candidate shall obtain not less than 50% of the maximum marks
	prescribed for the CIE of each Theory / practical courses.
	b) Candidates obtaining less than 50% of the CIE marks in any theory/
	practical course shall not be eligible to register for the SEE in that
	course. In such cases, the Head of the Department shall arrange for the
	improvement of CIE marks in the theory/ practical course when
	offered in the subsequent academic session, subjected to satisfying the
	clause 23OMC 8.0.
	c) CIE Marks shall be based on:
	(i) Tests marks
	(ii) Assignments, Quiz, Simulation, Experimentation, Mini project, oral examination, field work etc., conducted in respective courses.
	d) The CIE marks in a theory course, shall be based on three tests covering
	the entiresyllabus. An additional test may be conducted for the
	needy students to provide an opportunity to improve their CIE
	Marks before the end of the semester. The CIE marks shall be the
	average of the marks scored in three tests.



	e) The candidates shall appear for the proctored Tests online as notified by
	the concerned course teacher.
	f) The CIE marks list shall be displayed on the Notice Board and
	corrections, if any, shall be incorporated before submitting it to the
	University.
	g) Every page of the CIE marks list to be forwarded by the Director, CDOE to
	the University shall bear the signatures of the concerned Teacher,
	Head of the Department and the Director of CDOE.
	h) The CIE marks shall be sent to the University by the Director, CDOE well
	in advance before the commencement of Semester End Examinations.
	No corrections of the CIE marks shall be entertained after the
	submission of marks list to the University.
6.13	Evaluation of Project Dissertation:
	a) The candidate shall submit a soft copy of the dissertation work to the
	University. The soft copy shall contain the entire Dissertation on the
	project work in monolithic form as a PDF file (not separate chapters).
	The Guide, after satisfying himself on the suitability of the dissertation
	and checking the report for completeness and shall upload
	the Dissertation along with the name, University Seat Number,
	address, mobile number of the candidate etc., as prescribed
	in the form available on online Dissertation evaluation portal.
	b) Plagiarism Check:
	Once the Guide uploads the dissertation, the same shall be linked for
	plagiarism check. The allowable plagiarism index shall be less than
	or equal to 25%. If the check indicates a plagiarism index greater than
	25%, he/she shall,
	(i) for the first time, the candidate shall resubmit the dissertation, to the
	Registrar (Evaluation)/ Regional Centre/ Head Office, VTU along
	with the penal fees of Rs. 2000/- (Rupees Two bthousand only).
	(ii) for the second time, the candidate shall resubmit the dissertation
	along with the penal fees of Rs. 4000/- (Rupees four thousand
	only).



If the dissertation
is rejected again during second resubmission with reference to plagiarism
index, the candidate shall redo the project and submit after a semester's
time, subjected to satisfying the clause 23OMC 8.0.
c) Project Evaluation by Examiners:
(i) On clearance of the plagiarism check, evaluation of the project
dissertation shall be made independently by the examiners appointed
by the University from a panel of eligible examiners in the same field of
specialization. The dissertation shall be sent through email by the
Registrar (Evaluation) for evaluation to two examiners - one, the Internal
Examiner who shall be his/her Guide (Co-guide in the absence of the
Guide) and the second, who shall be an External Examiner-I or External
Examiner-II, as the case may be, appointed by the University.
(ii) Examiners shall
evaluate the dissertation normally within a period of not more than
fifteen days from the date of receipt of the dissertation through
email.
iii) The examiners shall independently submit the report along with the
evaluation marks through the specified web-link.
iv) The External Examiner-I can submit a report,
(1) accepting the dissertation in the present form and award the passing
marks, or
(2) suggesting for improvement of the dissertation and recommend for
resubmission of the dissertation again for evaluation, or
(3) totally rejecting the dissertation clearly listing reasons for the same.
On receiving the report from the External Examiner-I,
A. if the recommendation is (1), the Viva-Voce examination of the
student shall be conducted as per clause 23OMC $6.13(x)$ .
B. if the recommendation is (2), the student shall be informed about the
suggestions, to incorporate the same and resubmit the dissertation
through the Guide, for further action as per clause (vi) below.
I

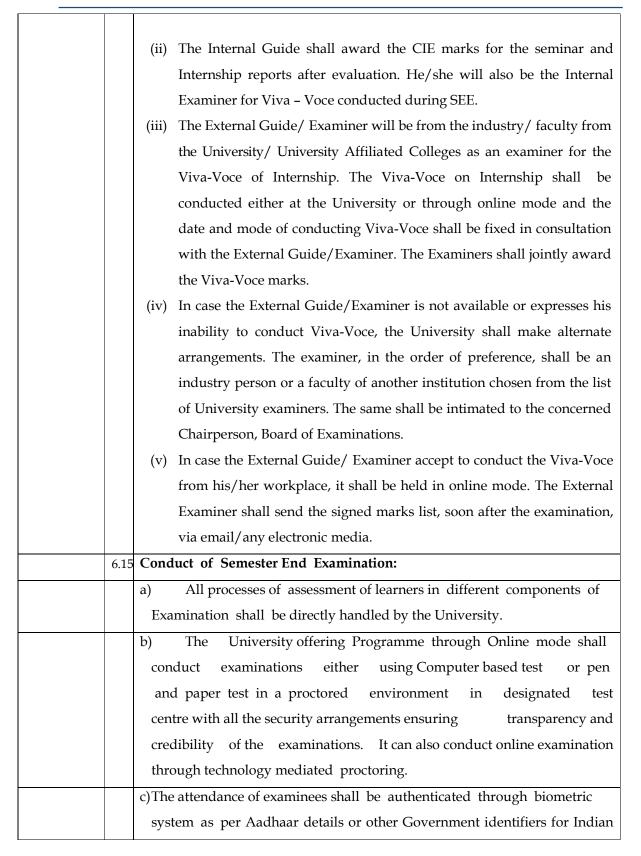


	C. If the External Examiner-I has rejected the dissertation, the University
	shall appoint another examiner, under clause 6.13(c)(i), as External
	Examiner-II, and send the dissertation for evaluation through email
	for further action as per clause (v) below.
	(v) The External Examiner-II can submit a report,
	(1) accepting the dissertation in the present form and award the passing
	marks, or
	(2) suggesting for improvement of the dissertation and recommend for
	resubmission of the dissertation again for evaluation, or
	(3) totally rejecting the dissertation clearly listing reasons for the same.
	on receiving the report from the External Examiner-II,
	A. if the recommendation is (1), the Viva-Voce examination of the
	student shall be conducted as per clause 23OMC 6.13(x).
	B. if the recommendation is (2), the student shall be informed about the
	suggestions, to incorporate the same and resubmit the dissertation
	through the Guide, for further action as per clause (vi) below.
	C. If the External Examiner-II has rejected the dissertation, the
	University shall not accept the project dissertation of the student.
	(vi) When the student resubmits the dissertation after incorporating the
	modifications suggested by the External Examiner-I or External
	Examiner-II, as per clause (iv)(B) or (v)(B) respectively, the Viva-Voce
	examination of the student shall be conducted as per clause 23OMC
	6.13(x).
	(vii) The average of the marks awarded by the two examiners shall be the
	final evaluation marks for the dissertation.
	viii) If the dissertation is not accepted by the University as per clause (v)(C)
	above, the candidate shall carry out the dissertation work once again
	and submit the dissertation subject to provisions of 23OMC8.0. In such
	cases of rejection, the candidate shall redo the entire procedure starting
	from the submission of dissertation in soft copy.
	(ix) The candidate, whose Dissertation is rejected, can rework on the same
	topic or choose another topic of dissertation under the same
1	



Guide or new Guide, if necessary. In such an event, the report shall be submitted subject to provisions of 23OMC8.0.  (x) Viva-Voce examination of the candidate shall be conducted together by the External Examiner, who evaluated the dissertation, and the Internal Examiner. The Internal Examiner as per the direction of the University shall arrive at a mutually convenient date for the conduct of Viva-Voce examination of the concerned candidate with an intimation to the Registrar (Evaluation). In case one of the examiners expresses his/ her inability to attend the Viva-Voce, the Registrar (Evaluation) shall appoint a substitute examiner in his/ her place.  (xi) The relative weights for the evaluation of dissertation and the perfor mance at the Viva-Voce shall be as per the Scheme of Teaching and Evaluation.  (xii) The marks awarded by both the Examiners at the Viva-Voce examination shall be sent jointly to the University immediately after the examination of dissertation and conduct of Viva-Voce shall be remitted through the Director, CDOE as per the instructions of Registrar (Evaluation) from time to time.  (xiv) The candidates who fail to submit the dissertation work within the stipulated time are permitted to submit the same with special permission from the University along with the penal fee notified for the same.  6.14 Internship:  (i) There shall be 100 marks for CIE (Presentation: 50 marks, Report: 50 marks) and shall be evaluated by the internal panel at the Department.  There will be 50 marks for CIE (Seminar: 20, Internship/ Organization study report: 30) and 50 marks for Viva – Voce conducted during SEE.  The Presentation, Seminar and Viva-Voce shall be conducted in online mode.		
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		online mode.







	learners and Passports for International learners.
	"Provided that for admission of foreign or international learners, any
	national identity with photograph of their country of residence shall also
	be acceptable for authentication".
	d) Minimum Standards to be maintained at Examination Centres as
	per the Commission norms.
	e) There shall be a University examination at the end of each semester.
	Question papers in theory courses shall be set by the Examiners
	appointed by the University.
	f) The weightage for the SEE shall be 70% of the maximum marks of each
	of the theory and practical courses.
	g) There shall be double valuation of theory answer scripts. The theory
	answer scripts shall be valued independently by two examiners
	appointed by the University.
	h) If the difference between the marks awarded by the two Examiners is
	not more than 15 per cent of the maximum marks, the marks
	awarded to the candidate shall be the average of two evaluations.
	i) If the difference between the marks awarded by the two Examiners is
	more than 15per cent of the maximum marks, the answer script shall
	be evaluated by a third Examiner appointed by the University.
	The average of the marks of nearest two valuations shall be
	considered as the marks secured by the candidate. In case, if one
	of the three marks falls exactly midway between the other two, then
	the highest two marks shall be taken for averaging.
23OMC 7.0	AWARD OF GRADES, PASSING STANDARDS AND VERTICA
2501v1C 7.0	PROGRESSION
	7.1 The University follows absolute grading system wherein the marks are
	converted to grades, and every semester results will be declared with
	Semester Grade Point Average (SGPA) and Cumulative Grade Point
	Average (CGPA). The CGPA will be calculated for every semester, except
	for the first semester.
•	



7.2	Computation of SGPA and CGPA
	(i) The grading system with the letter grades and the assigned range of mar
	ks under absolute grading system are as defined in the Table -
	2 above.
	(ii) A student obtaining Grade 'F' in a Course shall be considered faile
	d and is required to register for the course and reappear
	in subsequent SEE. Whatever the letter grade secured by the student
	during his/her reappearance shall be retained. However, the month
	and year of passing the Course shall be indicated in the grade cards/
	transcripts.
7.3	Grade Point Averages:
	SGPA and CGPA: The credit index can be used further for calculating the
	Semester Grade Point Average (SGPA) and the Cumulative Grade
	Point Average (CGPA), both being important academic performance
	indices of the student. While SGPA is equal to the credit index for a semester
	divided by the total number of credits registered by the student in that
	semester, CGPA gives the sum total of credit indices of all the previous
	semesters divided by the total number of credits registered in all these
	semesters. Both the equations together facilitate the declaration
	of academic performance of a student, at the end of a semester and
	at the end of successive semesters respectively. Thus,
	$SGPA = \frac{\sum [\text{Course Credits x Grade Points}] \text{ for all the courses in that semester}}{\sum [\text{Course Credital for all Gaussian in the course in the course of the local semester}]}$
	$\sum$ [Course Credits]for all Courses in that semester
	$\sum$ [Course Credits x Grade Points] for all Courses excluding those
	CCPA =  with F and transitional grades until that semester
	$\Sigma$ [Course Credits] for all Courses excluding those with F grades until that semester



7.4 SGPA and CGPA Calculations: An Illustrative Example for one academic year								
Table -		Illustrative	e Example	to calcu	late SGPA as	nd CGPA for I		
Semester (Odd:I, Even: II)	Course	Credits	Grade	Grade Points	Credit	SGPA/		
I	XX101	5:0:0= 5	A	8	$5 \times 8 = 40$	SGPA = <u>117</u>		
I	XX102	3:2:0= 5	Absent (F	0	$5 \times 0 = 00$	25		
I	XX103	3:0:0= 3	A+	9	$3 \times 9 = 27$	= 4.68		
I	XX104	0:1:1 = 2	F	0	$2 \times 0 = 00$	CGPA = SGPA		
I	XX105	4:1:0= 5	В	6	5 x 6 = 30	_		
I	XX106	5:0:0= 5	С	4	5 x 4 = 20	_		
Total		25 (18*)	Total		117			
(18 <sup>*</sup>	grade.Cons	edits of the	the calcu	· ·		the courses unde		
(18 <sup>*</sup> F' g sem	grade.Cons	edits of the sidered for der consider	the calcuration.	lation of	CGPA of the	two consecutive		
(18 <sup>*</sup> F' g sem	grade.Cons	edits of the sidered for der consider	the calcuration.	lation of	CGPA of the	two consecutive		
(18° F' g sem	grade.Cons	edits of the sidered for der consider	the calcuration.	lation of	CGPA of the	two consecutive		
(18° F' g sem	rade.Cons nesters und - 6B: Ai	edits of the sidered for der consider	the calcuration.  The Example of the	lation of	CGPA of the	two consecutive		
(18° F' g sem  Table  Semes	rade.Cons nesters und - 6B: Ai ster.	edits of the sidered for der consider	the calcuration.  The Example of the	lation of e to calcu	CGPA of the clate SGPA at $5x7 = 35$	nd CGPA for II  SGPA = 162		
(18° g sem  Table Semes  II	- 6B: Auster.  XX107  XX108	edits of the sidered for der consider n Illustrativ  3:1:1 = 5 4:0:0 = 4	the calcuration.  The Example B+  A	lation of  e to calcu  7	CGPA of the state SGPA at $5x7 = 35$ $4x8 = 32$ $3x6 = 18$	nd CGPA for II  SGPA = 162  25		
(18° g sem  Table Semes  II  II	- 6B: Anster.  XX107  XX108  XX109	edits of the sidered for der consider an Illustrativ 3:1:1 = 5 4:0:0 = 4 3:0:0 = 3	the calcuration.  The Example B+  A  B	e to calcu	CGPA of the state SGPA at $5x7 = 35$ $4x8 = 32$ $3x6 = 18$	nd CGPA for II  SGPA = 162 25 = 6.48		
Table Semes II II II	- 6B: Anster.  XX107  XX108  XX109  XX110	edits of the sidered for der consider a Illustrativ 3:1:1 = 5 4:0:0 = 4 3:0:0 = 3 4:1:0 = 5	the calcuration.  The Example B+  A  B  C  A+	e to calcu	CGPA of the state SGPA at $5x7 = 35$ $4x8 = 32$ $3x6 = 18$ $5x5 = 25$	nd CGPA for II  SGPA = 162 25 = 6.48  CGPA		
Table Semes II II II II II	rade.Conservers und - 6B: An ster.  XX107  XX108  XX109  XX110  XX111	edits of the sidered for der consider an Illustrativ 3:1:1 = 5 4:0:0 = 4 3:0:0 = 3 4:1:0 = 5 2:1:1 = 4	the calcuration.  The Example B+  A  B  C  A+	e to calcu	CGPA of the state SGPA at $5x7 = 35$ $4x8 = 32$ $3x6 = 18$ $5x5 = 25$ $4x9 = 36$	two consecutive  nd CGPA for II  SGPA = 162 25 = 6.48  CGPA (117 + 162)		



		ve semes					CGPA of the two
7.5							elow after reappeara
							lated as indicated
	therein.						
			trativ	e Exam	ple to cal	culate SG	PA after passing the
	iled cours		-			0 00	
I		3:2:0 = 5		6	5x6 = 3		PA (I Semester)
I I	XX104	0:1:1 =2	B+	7	2x7 = 1	4 117	1 + 30 + 14
							25
						= 10	61/25 = 6.44
					2x6 = 1	2 SGI	PA (II Semester)
II	XX112	2:0:0 =2	В	6		= (	162 +12)/25
						= 1	169/25 = 6.96
CC	GPA at th	e end of	the	academ	ic year a	fter passi	ng all the Courses
of	the two	consecuti	ve se	emester	s under		
C	onsiderati	on = (6.4	4 x 2	5 + 6.9	6 x 25)/	50 = 6.70	)
7.6	(b) CGPA	A Calcula	tion	of the	Programn	ne: An II	lustrative Example
Tabl	e - 6D:	An Illus	trativ	e Exam	ple to cal	culate SC	GPA and CGPA for
Sem	esters.						
Seme	ester	I		II		III	IV
Cred	its of the	25		25		25	25
Seme	ester						
SGP	A	6.44		6.96		9.20	6.86
CO	GPA = (2	25 x 6.44	+ 25	x 6.96	+ 25 x	9.20 + 25	<u>x 6.86)</u> = 7.37
				100			



7.8	Conversions of Grades into Percentage and Class Equivalence
	a) Conversions of Grades into Percentage:
	There is no formula for conversion of CGPA into the percentage of marks.
	However, the following formula for conversion of the CGPA on a
	10-point scale into the percentage of marks (M) for use during employment
	/ higher studies, etc. may be used;
	Percentage of marks secured, M = [CGPA Earned] x 10
	Illustration for a CGPA of 8.20:
	$M = [CGPA Earned 8.2] \times 10 = 82.0 \%$
	b) Class Equivalence:
	After the conversion of final CGPA into percentage of marks (P), a
	graduating student
	is reckoned to have passed in,
	(i) First Class with Distinction (FCD) if P > 70%
	(ii) First Class [FC] if P > 60% but < 70% and
	(iii) Second Class (SC) if P < 60%. And > 50%
	1
7.9	Passing Standards:
7.9	Passing Standards:  a) (i) A student obtaining any grade 'O' to 'C' shall be considered as passed
7.9	
7.9	a) (i) A student obtaining any grade 'O' to 'C' shall be considered as passed
7.9	a) (i) A student obtaining any grade 'O' to 'C' shall be considered as passed and a student securing 'F' grade in any of the head of passing shall
7.9	a) (i) A student obtaining any grade 'O' to 'C' shall be considered as passed and a student securing 'F' grade in any of the head of passing shall reappear in that head for the SEE.
7.9	<ul> <li>a) (i) A student obtaining any grade 'O' to 'C' shall be considered as passed and a student securing 'F' grade in any of the head of passing shall reappear in that head for the SEE.</li> <li>ii) A student shall be declared successful at the end of the Programme for</li> </ul>
7.9	<ul> <li>a) (i) A student obtaining any grade 'O' to 'C' shall be considered as passed and a student securing 'F' grade in any of the head of passing shall reappear in that head for the SEE.</li> <li>ii) A student shall be declared successful at the end of the Programme for the award of Degree only on obtaining CGPA &gt; 5.00, with none of the</li> </ul>
7.9	<ul> <li>a) (i) A student obtaining any grade 'O' to 'C' shall be considered as passed and a student securing 'F' grade in any of the head of passing shall reappear in that head for the SEE.</li> <li>ii) A student shall be declared successful at the end of the Programme for the award of Degree only on obtaining CGPA &gt; 5.00, with none of the Courses remaining with 'F' Grade.</li> </ul>
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7.9	<ul> <li>a) (i) A student obtaining any grade 'O' to 'C' shall be considered as passed and a student securing 'F' grade in any of the head of passing shall reappear in that head for the SEE.</li> <li>ii) A student shall be declared successful at the end of the Programme for the award of Degree only on obtaining CGPA &gt; 5.00, with none of the Courses remaining with 'F' Grade.</li> <li>b) For a pass in a theory and laboratory (practical) course, the student shall secure the minimum of 40 % of the maximum marks prescribed in the SEE and 50% of marks in CIE and 50 % in the aggregate of CIE andSEE marks. The Minimum Passing Grade in a</li> </ul>
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	d) IV semester candidates having backlog courses are permitted to
	upload the dissertation report and appear for SEE. The IV semester
	grade card shall be released only when the candidate completes all
	the backlog courses and become eligible for the award of degree.
	e) A candidate may at his/her desire reject his/her latest semester
	results of University examination, except the IV semester, in respect
	to all courses of that semester. Rejection shall be permitted only once
	during the entire Programme, subjected the condition under clause
	23OMC 8.0. The CIE marks of the rejected semester shall remain
	the same. Rejection of results of the University examination including
	CIE marks is not permitted.
	f) If the rejection of the University examination results of the semester
	happens to be of an odd semester, the candidate can take admission
	to the immediate next even semester. However, if the rejection of the
	University result is of even semester, the candidate can take
	admission to the next odd semester, but register for only those courses
	that are offered during that semester as per the Scheme of Teaching and
	Evaluation. He/she may register for the rest of the courses during the
	following even semester.
	g) Application for rejection shall be submitted to the Registrar
	(Evaluation) through the Director, CDOE, within thirty days from the
	date of announcement of results.
7.	10 Eligibility for Promotion and Vertical Progression
	a) There shall be no restriction for promotion from an odd semester to
	the next evensemester, provided the student has fulfilled the
	attendance requirement.  b) (1)Candidates, with a maximum of four backlog courses of first year shall
	eligible for taking admission to second year.
	(2) Each credit course shall be treated as a head of passing.
	c) The Mandatory non-credit courses, if any, shall not be considered
	for the Eligibility criterion prescribed for promotion, award of Class,
	calculation of SGPA and CGPA. However, a pass in the above courses
	is mandatory before the completion of Degree.
	is mandatory before the completion of Degree.



23OMC 8.0	MAX	KIMUM DURATION FOR PROGRAMME COMPLETION
		A candidate shall be allowed a maximum duration of four (4) years from
		the date of admission to the first semester to complete all the requirements
		for the award of the Degree, failing which he/she shall
		discontinue the programme or register once again as a fresh candidate to the
		first semester.
23OMC 9.0	ELIC	GIBILITY FOR AWARD OF DEGREE, PRIZES, MEDALS, AND RANKS
	9.1	Eligibility for Award of Degree:
		A student shall be declared to have completed the degree of MCA, provided
		the student has undergone the stipulated course work as per the regulations
		and has earned the prescribed Credits, as per the Scheme of Teaching and
		Evaluation, of the programme. Provided, minimum attendance/
		participation requirements prescribed are satisfied.
	9.2	Certification
		Each award of Degree at postgraduate level for Online mode
		shall be assigned a unique identification number and shall
		have photograph and Aadhaar number or other government
		recognised identifier or Passport number, as applicable, along with other
		relevant details of the learner along with the Programme name.
		Each award shall also be uploaded on the National Academic Depository.
	9.3	Award of Prizes, Medals and Ranks:
		For the award of Prizes and Medals, the conditions stipulated by the Donor
		shall be considered subject to the provisions of the Statutes framed by the
		University for such awards.
		211. Olony 201 outh amarao.



	Master of Computer Applications, provided the student,  (i) Is not a repeater in any semester.
	(i) Is not a repeater in any semester
	(ii) Has not rejected the results of any semester.
	(iii) Has passed I to IV semester in all the courses in first attempt
	only
	c) The total number of ranks awarded shall be 10 % of total number of
	d) students appeared in IV semester subject to a maximum of 10 ranks.
	Illustration:
	(i) If 150 students appeared for the IV semester, the number of ranks to
	(ii) be declared will be 10.
	(iii) If 84 students appeared for the IV semester, the number of ranks to
	(iv) be declared will be 08.
	(v) In case of fractional number of ranks, it is rounded to higher integer
	(vi) only when
	the first decimal place value is greater than or equal to 5.
	e) Ranks are awarded based on the merit of the students as determined by
	CGPA. If two or more students get the same CGPA, the tie shall be
	resolved by considering the number of times a student has obtained
	higher SGPA. If it is not resolved even at this stage, the
	number of times a student has obtained higher grades like S, A, B etc.,
	shall be taken into account to decide the order of the rank.
23OMC 10.0	MISCELLANEOUS
	10.1 Equivalence of Qualifications Acquired
	10.1 Equivalence of Qualifications Acquired  The MCA Degrees at postgraduate level in conformity with Commission
	The MCA Degrees at postgraduate level in conformity with Commission



	post-graduate level, recognised by the Commission offered through conventional mode.
10.:	Active Engagement of the Learners
	Active engagement in Online or virtual class shall be monitored via
	participation in asynchronous or synchronous discussions, assignment
	activity and Programme involvement and the analytics of Learning
	Management System shall be used for ensuring the learner's participation
	of at least 30 hours including self-learning time in a semester required to
	acquire the prescribed level of learning in respect of one credit.
10.3	Learner Support Services
	a) The University shall provide adequate support for advising, counselling,
	mentoring and guidance so as to ensure the best possible learning
	experience for the learners and there shall be clear guidelines
	on academic integrity and netiquette (internet etiquette) expectations
	regarding lesson activities, group discussions, chats and plagiarism.
	b) The University offering programmes in Online mode shall have
	guidelines for learner support services which is made available to all
	the Co-ordinators/ Counsellors/ Mentors and is accessible to the
	learners.
	c) The learner support services to be provided by the University shall
	include broadly the following, namely:-
	(i) Pre - admission counselling for prospective learners to provide
	information to facilitate them in taking an informed decision
	on joining a specific programme;
	(ii) support for admission related matters;
	(iii) details of study material and information shall also be available on
	the website of the University;
	(iv) a full-time dedicated help desk well versed with the learner
	information data base providing single window services for all
	learner related queries.
	d) The University shall provide facilities for online guidance and
	counselling facilities to the learners.



	e) The University shall create online discussion forum for learners.
10.4	Learner's Authentication
	a) The University shall exercise proper learner's authentication practice to ensure the academic integrity and all the Indian learners, at the time of enrolment, synchronous/ asynchronous participations and all
	assessments for examinations, shall be required to provide the Aadhaar number or other government recognised identifier, as applicable and verify their information for authentication for which necessary infrastructure or support shall be provided to them by the University;
	b) All the International learners shall authenticate their credentials through Passports only. These learners shall pursue Online programmes from their country of residence.
	"Provided that for admission of foreign or international learners through the Ministry of External Affairs, Government of India, in UGC recognized or entitled online Programmes, any national identity
	with photograph of their country of residence shall also be acceptable for authentication".
	c) The University shall provide the details of all International learners enrolled immediately after the beginning of the academic session to the Ministry of External Affairs, Ministry of Education and University Grants Commission.
10.5	Learner Mobility
	A learner enrolled for a programme under Online mode in a higher educational institution recognised by the Commission under these regulations shall be eligible for mobility from one mode of learning to another mode of learning within the higher educational institution as per the provisions stipulated under its Act/ Statutes/ Regulations and with the approval of the University.  Provided that in case a programme is under the domain of regulatory authority/ statutory council, the University shall take permission from the concerned regulatory authority/ statutory council for mobility of learners



		under such programmes.
	10.6	Temporary Discontinuation/Break in the Programme
		(a) If a candidate, for any reason, temporarily discontinues the
		Programme or take a break from programme during any semester,
		he/she may be permitted to continue in the programme by
		registering to the same semester of the prevailing Scheme, and shall
		complete all the remaining course work subject to the provision 23OMC
		8.0.
		(b) Also the Candidates may have to complete additional course/s, if
		any, as per the decision of concerned Board of Studies and approval
		of Dean, on establishing equivalence between two Schemes. A Grade
		card shall be issued to that effect. Additional course/s shall not be
		considered for the eligibility criterion prescribed for promotion.
		However, based on the individual cases, it is considered to decide the
		SGPA and CGPA to admit the student for the award of degree. Such
		candidate shall not be eligible for the award of rank.
	10.7	System of Grievance Redressal
		a) The University shall institute a system of Grievance Redressal, in
		accordance with the guidelines specified by the Commission.
		b) The University shall provide an online facility for submitting
		grievances and track their status. The Online "Complaint Handling
		Mechanism" facilitates learners to submit online complaints through
		the interactive web portal and track their resolution status.
23OMC 11.0	App	licability, Interpretation and Power to Modify
	11.1	These regulations of Visvesvaraya Technological University governing
		the Degree of Master of Computer Applications by online mode shall be
		binding on all concerned.
	11.2	Interpretation. —
		If any question arises relating to interpretation of these Regulations, the
		decision of the University shall be final and binding.



11.3	Removal of Difficulties
	(i) Nothing in the foregoing may be construed as limiting the power of the
	University to amend, modify or repeal any or all of the above.
	Notwithstanding anything contained in the foregoing, the University shall
	have the power to issue directions/ clarifications/orders and prescribe such
	format/ procedure, as it may deem fit in the course of implementation of
	these and related Regulations to address and removal of any difficulty.