MES GARWARE COLLEGE OF COMMERCE (AUTONOMOUS)

BBA-CA Programme (Autonomous)

Under the Guidelines of NEP 2020 and AICT

AY 2024-25

Programme Description

1. Introduction

MES Garware College of Commerce (Autonomous), established in 1967 is one of the largest independent Commerce Colleges in Pune. MES Garware College of Commerce (Autonomous) is NAAC Re- Accredited with 'A' grade and the recipient of the Best College Award of Savitribai Phule Pune University (SPPU).

We take pride to state that MES Garware College of Commerce (Autonomous) has been conferred the 'Autonomous' status by the University Grants Commission (UGC) and SPPU from the Academic Year 2021-2022.

This Autonomy is for academic purpose, and we believe that the Autonomous status has put more responsibility on the shoulders of the institution and at the same time has made available more opportunities in the field of higher education.

We, at MES GCC are committed to the enhancement of quality education and achievement of academic excellence for years together.

The 'Academic Autonomy' will be useful to make syllabi more relevant, delivery of education smarter, examinations more transparent, creating awakening & encouraging students to overcome their limitations, and thus program - outcomes leading to enrichment of personalities of our students.

Considering the guidelines of NEP 2020 for Autonomous Colleges and AICTE, The College is gearing up for the multidisciplinary undergraduate education.

As per the four-year UG Degree Program as suggested by NEP 2020, students shall obtain -

- A Certificate after completing 1 year (2 semesters) of study in the chosen discipline or field, including vocational and professional areas.
- A Diploma after 2 years (4 semesters) of study.
- A Bachelor's degree after a 3-year (6 semesters) programme
- A Bachelor's Degree with Honours after a 4-year (eight semesters) programme of study.

MES GCC (Autonomous) Academic System & Examination system will empower student generations, make them confident, employable & industrious.

In MES GCC (Autonomous), examinations would be in the form of Continuous Comprehensive Evaluation (CCE) of students and will enhance the teaching learning process.

The thrust of the evaluation methods used in this College would be on the all-round development of the students, which will include CGPA (Cumulative Grade Point Average) credit points / grade points while completing the UG & PG Degree Programmes.

The Examination Board has taken the efforts to ensure that the teachers / evaluators will be teaching the students to learn. Evaluation would be oriented towards their knowledge, analytical ability and logical reasoning. Evaluation feedback would be of use to enhance these abilities and make student apply the information & knowledge in day to day life.

Evaluation is divided into two parts. Cumulative Assessment, i.e. Internal Evaluation, With 40 Marks (out of 100) weightage. It will inculcate & enhance the values of regularity, discipline & consistency in learning endeavors. The focus is also given on experiential learning through various assignments, internships, projects, practicals and many more. This is to enhance practical orientation and it will be evaluated separately.

Summative Assessment will be conducted at the end of the every Semester for all the Programmes available in this College. This will carry 60 marks (out of 100) weightage for all the Programmes.

Thus, the College has adopted 40:60 Pattern of marking with the Semester System. The details of the Examination process are given in this Handbook. The Handbook of Examination is only for the internal circulation of the College.

This Programme is an applications-based Computer Degree Programme under Commerce and Management faculty. It includes introduction to computers, programming languages, Web Technology, Database management, Computer Networking, Cyber Security, Operating System, Software Testing and many more. To become an IT Professional, BBA-CA programme provides Computer Application skills with managerial knowledge.

BBA-CA programme facilitates students with hands-on programming language which builds strong foundation needed for career in Computer Application. BBA-CA programme provides an opportunity to students to pursue project-based learning to get the live experience of project development.

Students also acquire teamwork, managerial skills, communication skills, and time management skills with different complementary managerial courses.

The comprehensive syllabus and a wide range of value-added courses help the students to build an all-round personality to face the challenges of a professional career in Computer Applications.

Under the National Education Policy (NEP) 2020 and AICTE, the Bachelor of Business Administration in Computer Applications (BBA CA) program can play a significant role in preparing students for the evolving business and technology landscape.

BBA CA programs align with NEP 2020 by integrating business and technology, developing digital skills, promoting data-driven decision making, fostering entrepreneurship and innovation, emphasizing industry collaboration, and offering flexible learning pathways. These programs equip students with a unique blend of business acumen and technological expertise, preparing them for the digital age and aligning with the NEP's vision of transforming education to meet the needs of the 21st century.

2. Program Objectives-

a. To develop fundamental knowledge of Computer Applications.
b. To enhance programming and logical skills to learn computer programming languages.
c. To make students well equipped with recent IT technologies of computer application such as AI, Mobile Computing, IoT, Cloud Computing etc.
d. To give in-depth knowledge of theory and practical of different softwares.
e. To understand the life cycle of software-development through project-based learning.
f. To introduce essential managerial, communication and technological skills through interactive learning process.

3. Program Outcomes -

Students would be able to:

a. Learn fundamentals of computer and related applications
b. Understand different programming languages by developing logical skills.

c. Accommodate themselves in recent technological changing environment.

d. Get hands on practical experience using different programming languages.

e. Understand the life cycle of software-development through the projects assigned.

f. Acquire different skill-sets useful for industry.

4. Program Duration

Bachelor of Commerce Degree Programme (Choice Based Credit System - CBCS pattern) will be introduced in the following Academic Years:-

First Year BBACA   -   Certificate Course   2023-2024
Second Year BBACA   -   Diploma   2024-2025
Third Year BBACA   -   Bachelors   2025-2026
Fourth Year BBACA   -   Bachelors with Honors   2026-2027

BBACA Degree Programme will be of four years, divided into Eight Semesters

5. Eligibility for Admission

Candidates shall be admitted to the First Year of BBACA Programme (CBCS pattern) after passing the Higher Secondary School Certificate Examination of the Maharashtra State Board of Secondary and Higher Secondary (10+2) Education or equivalent from any other Board.

a) Two years diploma course (after S.S.C., i.e. 10th Standard) of Board of Technical Education Government of Maharashtra or its equivalent.

b) MCVC.

6. Medium of Instructions

The medium of instructions for BBACA Programme shall be English.

Sr. No.	Credit Baskets	Courses
V1	Major Core	Basic C Language, Advance C Language, Data Structure using C, CPP Programing, LAB, Core Java, Software Testing, LAB, Adv Java, Business Ethics/Cyber Law/Ethical Hacking, Lab.
V2	Minor	Business Mathematics, Web Technology, Python, RTIT Operating System.
V3	Generic Elective / Open Elective	Principles of Management, Personality Development, Digital Marketing, Cyber Security.
V4	Vocational Skill Course	Fundamentals of Indian Business Environment, Business Organization and Systems, Principles of Marketing, Management Information System, International Relations.
	Skill Enhancement Course	DBMS, RDBMS, SQL, PL/SQL.
V5	Indian Knowledge System	Ancient Indian Textile Industry
	Ability Enhancement Course	Compulsory English for Business Communication, Marathi or other Indian Language.
	Vocational Education Course	Environment Awareness Course
V6	Co-curricular Courses	Youth Red Cross / Performing Arts (Cultural Activities) / National Social Service (NSS) / National Cadet Corps (NCC) / Physical Education

Choice Baskets for Student

9. Standard of Passing

The Semester End Examination will be conducted for 60 marks

Continuous Comprehensive Evaluation (CCE) will be conducted for 40 marks.

Thus for each Paper/(Course or Subject) the examination will be for 100 marks foreach Semester.

Passing marks percentage for any given paper is 40% (Out of 100). The Semester End Examination for every paper is of 60 Marks. Therefore, a student needs to get 24 marks minimum out of 60. For Continuous Comprehensive Evaluation (CCE), which means various internal examinations prior to Semester End, total marks are 40. Hence for CCE, a

student needs to get 16 marks in a Paper. But there is no separate passing for CCE conducted. It means, the shortage of marks in CCE (less than 16 out of 40) is allowed. But in that particular Paper, a student must compensate the shortage of marks in CCE, by getting more marks in Semester End Examination. A student must get 40 out of 100 in a given Paper. It is also to be noted that passing in the Semester End examination is compulsory.

Backlog Internal Examination will be conducted for the students whose Aggregate percentage is less than 40% in particular Paper and has cleared Semester End Examination.

Similarly, if a student has scored less than 40% marks in internal as well as Semester End Examination of a particular Paper, a student will become eligible to re-appear for the Internal Backlog Examination and Semester End Examination.

10. Rules for Special Examination

Those students who are representing College in N.S.S / N.C.C / Sports / Youth Red Cross / Cultural at University, State, National, International level and who had obtained prior permission from the College, such students will be eligible for the Special Examination.

11. A.T.K.T. Rules for Theory Papers and Practicals

If a student fails in all the papers of First Semester, shall be Allowed To Keep the Terms (ATKT), that is, 'a student will be allowed to continue with the Second Semester, But at the time of the admission to the Second Year (SY), a student will have to acquire minimum 50% of credits of F.Y (Semester-I & Semester –II together)

Similarly, if a student fails in all the papers of the Semester III (Second Year), shall be allowed to proceed to Semester IV. But while getting admission in Semester V (Third Year), a students must have acquired 100% of credits of First year and 50% of credits of S.Y (semester III & IV together) [If a student fails in Theory as well as Practical of the same paper, it will be treated as the single head of Passing.]

Mandatory Non-CGPA Credit courses: completion of Non- grade and mandatory courses in necessary before completion of Degree. But this

shall not block the admission to the next year of the same Degree Programme.

11. Declaration of Result

The Result of Semester End Examination will be declared within 30 days from last day of said Examination.

12. Verification and Revaluation

A candidate may apply for verification and revaluation for result within ten days after the declaration of said result. In case of verification, the existing rules will be applicable.

Students who wish to apply for Revaluation of any Subject / Paper/ Course should compulsorily apply for the photocopy of answer-sheet of that Subject / Paper/ Course first. Without getting photocopy of answer sheet, revaluation is not allowed.

The revaluation result will be adopted if there is a change of at least 5 % marks and in the grade of Course.

13. Equivalence and Transitory Provision

Students who are coming from other Universities / Autonomous Colleges must have 2/3(Two Thirds) of total number of Papers in common with Papers from this College. The Equivalence Committee of the College will check the eligibility as per equivalence norms.

For transitory provision, the college will conduct Examinations of Old Pattern of Programme for next Five consecutive examinations only, from the date of implementation of New Pattern of Programme. After that, student will have to appear for the Equivalent existing pattern of Programme.

14. Programme Validity

Once a student takes an admission for the particular Degree Programme in Commerce, student's registration is valid for the period of 5 years (Programme duration + 2 years) only; within which a student must complete that particular Degree Programme.

15. Attendance

No candidate shall be allowed to appear for Semester End Examination unless and until a student fulfills the norms of attendance as per UGC / State Government / The College.

16. Academic Calendar

Normally dates for the commencement and conclusion of the First and the Second Term (Semesters) shall be as per the directions of The Director of Higher Education, Government of Maharashtra and the affiliating University as applicable.

17. Methods of Evaluation

The evaluation of students will be done on three parameters:-

A. Continuous Comprehensive Evaluation (CCE) will be a continuous process as per College norms. It is considered as 'Internal Assessment' and will be for total 40 marks per Paper. These 40 marks are obtained from the following methods:

1) Optional methods:
a) Presentations, including ppt.
b) Projects
c) Assignments
d) Tutorials
e) Oral Examinations
f) Open Book Tests
g) Field Visits
h) Surveys
i) Seminars
j) Guest Lectures.
k) Report writing
l) Case studies
m) Talk on the Topic

n) Group Discussions

o) Article Review

p) Quiz and many more methods invented by the teachers for evaluation.

BBACA Semester End Examination – Semester End Examination will be conducted for 60 marks. Question Papers will be set by the panel of subject experts.

C. Project / Practical-based Examination

- It is applicable to specific Papers only.
- Each Project will be for one credit.
- The Project may include the assigned work including Practicals.
- Projects or Practicals will be evaluated separately for 50 marks on the basis of work assigned and completed by students and corresponding Oral /Viva-Voce.
- External examiner shall be appointed from other colleges / institutions / universities, if necessary.

18. Structure of the Evaluation

At the end of each Semester, students will be given Evaluation Sheet showing the performance in each Paper / Course, indicating Percentage of Marks; Semester Grade Point Average (SGPA) and / or Cumulative Grade Point Average (CGPA); and the Letter Grades. These will be based on performance in the Internal (CCE) Examinations (Theory,Projects/ Practials) and Semester End Examinations. Class or Division gets revealed along with the performance as 'Pass' or 'Eligible for Re-appearance', at the time of the final award of Degree.

Percentage of Marks and Grade Point average (GPA) are related as follows

Sr. No	% Max Marks	Grade point	Grade
1	90 to 100	10	O (Outstanding)
2	75 to 89	9	A+ (Excellent)
3	60 to 74	8	A (Very Good)
4	55 to 59	7	B+ (Good)
5	50 to 54	6	B (Above Average)

6	45 to 49	5	C (Average)
7	40 to 44	4	D (Pass)
8	Less than 40	0	F (Fail)
9	Nil	0	Ab (Absent)
10	-	0	Fx (Detained, Repeat, the course)

Note : If GPA is for a Semester, it is considered as Semester Grade Point Average (SGPA)

If GPA is for the final award of Degree Programme, it is Cumulative Grade Point Average (CGPA)

Grade Point Average (GPA), Letter Grades (LG), Award of Class / Division

a) Grade Points System

'Grade Points System' is a System revealing the evaluated performance of astudent by using 'Grade – Points' and the 'Letter – Grades'. The performance within a Semester and Continuous Performance starting from the First Semester onwards are indicated by 'Grade Points Average' (GPA) and 'Cumulative Grade Points Average' (CGPA), respectively.

b) Letter Grades -

The 10-point scale would be used to convert marks out of 100 to Grade Pointsand Letter Grades according to the given table. (In the following point (c))
Class of Passing or Division of Passing

Traditionally in many educational institutions or universities, Percentage of Marks is used to indicate 'Class of Passing' or 'Division of Passing'. Example 'First Class' or 'First Division', etc. The conversion table given here shows the 'Class' or 'Division' based on Percentage of marks obtained in a Course / Paper or at the time of aggregative result, as applicable.

The award of Class shall be based on the aggregate marks obtained by a student inall Papers from all the Semesters.

Sr. no	CGPA	Grade
1	9.50 and Above	O (Outstanding)
2	8.25 to 9.50	A+ (Excellent)
3	6.75 to 8.25	A (Very Good)
4	5.75 to 6.75	B+ (Good)

5	5.25 to 5.75	B (Above Average)
6	4.75 to 5.25	C(Average)
7	4.00 to 4.75	D(Pass)

Percentage of marks=

If O grade then 20 X CGPA-100 If A+ grade then 12X CGPA-25 If A grade then 10X CGPA-7.5 If B+ grade then 5X CGPA-26.25 If B grade then 10X CGPA -2.50 If C grade then 10X CGPA -2.50

If D grade then 6.6X CGPA +13.6

Please note:

A student obtaining Grade Ab shall be considered as absent and will be required to re-appear for the examination.

A student obtaining Grade F shall be considered as failed and will be required to re-appear for the examination.

Credit Distribution Structure for Three/Four Years Honours with Multiple Entry and Exit Options

Level / Difficulty	Semester	Major Core				Major Elective 8	VSC		IKS		FP / OJT/ CEP		Minor		GE/OE		SEC		AEC		VEC		CC		Total
						V-1 48+8	V-4-8		V-5-2		V-6-10		V-2-18		V-3-12		V-4-6		V-5-8		V-5-4		V-6		
	1	Basic C Language	4	DBMS	2		SQL	2	IKS	2					POM	2	LAB	4	Eng	2	EVS	2	CC	2	22
	2	Advance C Language	4	RDBMS	2		PL/SQL	2					Maths	2	PD	2	LAB	4	Eng	2	EVS	2	Phy. Ed	2	22
	3	Data Structure using C	4	J-Query	2		Software Engineering	2			LAB	4	Web Technology	4	Digital Marketing	2			Marathi/Hindi	2				2	22
	4	CPP Programing	4	Computer Networking	2		Object Oriented Software Eng	2			Project	2	Python	2	Cyber Security	2			Marathi/Hindi	2				2	22
		LAB	4																							
	5	Core Java	4	Angular JS/PHP	4		Big Data/Block Chain	2			Project	2	RTIT	2											22
		Software Testing	2																							
		LAB	6																							
	6	Adv Java	4	Node JS/Adv PHP	4						Project	4	Operating System	4											22
		Business Ethics/Cyber Law/Ethical Hacking	2																							
		Lab	4																							
			42	0	0	16	0 0 0 0 0	0	10	0	2	0	12	0	14	0	8	0	8	0	8	0	4	0	8	132
	7	Dot Net Programing	4	Research Methodology	4						Live Project	4	Report Writing	2											22
		LAB	2																							
		Android Programing	4																							
		Lab	2																							
	8	IoT	4																							
		Lab	2																							
		Multimedia	4																							
		Project	4																							
		Claude Computing	4																							
		Business Ethics	4																							