BASAVESHWARENGINEERINGCOLLEGE, BAGALKOTE-587102
Department of Computer Applications (MCA)

MCA–I Semester Scheme of teaching and examinations for 2025-2026

BVVS

Sl. No.	Category	Course Code	Course Name	Credits	Hours/Week			Examination Marks		
					Lecture	Tutorial /SDA	Practical/ Seminar	CIE	SEE	Total
1	IPCC	1PCAA101C	Programming and Problem Solving in C	4	3	-	2	50	50	100
2	BSC	1PCAA102C	Mathematical Foundation for Computer Applications	3	3	-	-	50	50	100
3	PCC	1PCAA103C	Database Management Systems	3	3	-	-	50	50	100
4	PCC	1PCAA104C	Operating Systems	3	3	-	-	50	50	100
5	PCC	1PCAA105C	Computer Networks	3	3	-	-	50	50	100
6	PCCL	1PCAA106L	DBMS Laboratory	2	-	-	4	50	50	100
7	PCCL	1 PCAA107L	Web Technologies Laboratory	2	-	-	4	50	50	100
8	**NCMC**	**1PCAA001M**	**Bridge Course Mathematics for MCA Program**	PP	3	-	-	100	-	100
			Total	20	18	00	10	450	350	800

Note:**BSC**-BasicScienceCourses,**PCC**:Professionalcore.**IPCC**-IntegratedProfessionalCoreCourses,**PCC(PB):**ProfessionalCoreCourses(ProjectBased),**PCCL**-ProfessionalCoreCourselab,**NCMC**-NoneCreditMandatoryCourse,**PP**-Pass/Pass, **NP**- Not Pass ,**L**-Lecture,**P**-Practical,**T/SDA**-Tutorial**/**SkillDevelopmentActivities(Hours are for Interaction between faculty and students NCMC- Research Methodology (**Online**) course is not counted for vertical progression; Students have to qualify for the award of the master's degree.

NCMC- Non Credit Mandatory Course (NCMC),Research Methodology, which students have to register and pass the course mandatorily through NPTEL/VTU Online Courses between 1st to 3rd semester for the award of the degree. Passing the course will be as per NPTEL/VTU Online Course Criteria. The result of the same will be reflected in the 4th semester.

MOOCS (3 credits / 12 weeks- PEC/MDC): This is mandatory course of 3 credits (12 weeks duration), which student have to register between 1st to 3rd semester or 4th semester from the BOS approved list of Swayam/ NPTEL /VTU Online Courses and passed with minimum of **50%** score for the award of the degree. The result will be reflected in the 4th semester.

Bridge Course: Non-Credit Mandatory Course - Bridge Course Mathematics for MCA Program: Students who have not taken Mathematics at the 10+2 or degree level are required to study and pass this course in the 1st semester. However, this course/subject will not be considered for vertical progression.

BSC: Basic Science Courses: Courses like Mathematics/ Science are the prerequisite courses that the concerned board of Studies will decide.

PCC: Professional Core Course: Courses related to the stream of engineering, which will have both CIE and SEE components, students have to qualify in the course for the award of the degree. **Integrated Professional Core Course (IPCC)**: Refers to a Professional Theory Core Course Integrated with practical of the same course. The IPCC's theory part shall be evaluated by CIE and SEE. The practical part shall be evaluated by only CIE (no SEE).However, questions from the practical part of IPCC shall be included in the SEE question paper. **PCCL: Professional Core Course Laboratory:** Practical courses whose CIE will be evaluated by the class teacher and SEE will be evaluated by the two examiners.

MCA-II Semester Scheme of teaching and examinations for 2025-2026

Sl. No.	Category	Course Code	Course Name	Credits	Hours/Week			Examination Marks		
					Lecture	Tutorial / SDA	Practical	CIE	SEE	Total
1.	IPCC	1PCAA201C	Introduction to Python	4	3	-	2	50	50	100
2.	PCC	1PCAA202C	Object Oriented Programming using JAVA	3	3	-	-	50	50	100
3.	PCC	1PCAA203C	Data Structures and Algorithms	4	4	-	-	50	50	100
4.	PCC	1PCAA204C	Software Engineering	3	3	-	-	50	50	100
5.	PCC	1PCAA205C	Introduction to AI	3	3	-	-	50	50	100
6	PCCL	1PCAA206L	Object Oriented Programming using JAVA Laboratory	1.5	-	-	3	50	50	100
7.	PCCL	1PCAA207L	Data Structures and Algorithms Laboratory	1.5	-	-	3	50	50	100
8.	**NCMC**	**1PCA A002M**	Seminar	PP	-	-	-	100	-	100
			Total	**20**	**16**	**00**	**08**	**450**	**350**	**800**

Note: **BSC**-Basic Science Courses, **PCC:** Professional Core Course. **IPCC-**Integrated Professional Core Courses, **PCC(PB):** Professional Core Courses (Project Based), **PCCL-**Professional Core Course lab ,**NCMC**- Non Credit Mandatory Course, ,L-Lecture, P-Practical, T/SDA-Tutorial / Skill Development Activities(Hours are for Interaction between faculty and students).

BSC: Basic Science Courses: Courses like Mathematics/ Science are the prerequisite courses that the concerned board of Studies will decide. **PCC:** Professional Core Course: Courses related to the stream of engineering, which will have both CIE and SEE components, students have to qualify in the course for the award of the degree. **Integrated Professional Core Course (IPCC):** Refers to a Professional Theory Core Course Integrated with practical of the same course. The IPCC's theory part shall be evaluated by CIE and SEE. The practical part shall be evaluated by only CIE (no SEE). However, questions from the practical part of IPCC shall be included in the SEE question paper. **PCCL:** Professional Core Course Laboratory: A Practical course who's CIE will be evaluated by the class teacher and SEE will be evaluated by the two examiners. **Seminar -** Non Credit Mandatory Course (NCMC), Students have to select the relevant topic and prepare on the same and present the content in the class. Student has to submit seminar report to the department. The Head of the Department shall make an arrangement for conducting seminars through concerned faculty members of the Department. The committee, constituted for the purpose by the Head of the Department, shall award only the CIE marks for the seminar. The committee comprising of Guide/Co-Guide, Senior faculty of the department and HoD/HoD nominee.