|| Jai Sri Gurudev ||
Sri Adichunchanagiri Shikshana Trust (R)

SJB Institute of Technology

BGS Health and Education City, Dr. Vishnuvardhana Road, Kengeri, Bengaluru-560060
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Recognized by UGC, New Delhi with 2(f) & 12 (B)

AUTONOMOUS SCHEME OF TEACHING & EXAMINATIONS (STE)
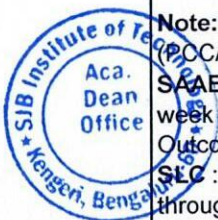## PG - MCA 1st year

SCHEME: 2025 **SEM : I** **Date:12.07.2025**

SL No	Course Type	Course type Count	Course Code	Course Title	BOS	Credits	Teaching Hrs/Week L Lecture	T Tutorial	P Practical	S SAAE	CIE Marks	SEE Dur.	SEE Th. Mrks	SEE Lab. Mrks.	Tot. Marks
1	IPCC	1	25MCAI101	Programming in Python	MCA	4	3	0	2	1	50	3	50	-	100
2	BSC	1	25MCAT102	Mathematical Foundations for Computer Applications		3	3	0	0	1	50	3	50	-	100
3	PCC	1	25MCAT103	Computer Networks		3	3	0	0	1	50	3	50	-	100
4	PCC	2	25MCAT104	Database Management Systems		3	3	0	0	1	50	3	50	-	100
5	PCC	3	25MCAT105	Web Technologies		3	3	0	0	1	50	3	50	-	100
6	PCC	4	25MCAT106	Software Engineering		3	3	0	0	1	50	3	50	-	100
7	PCCL	1	25MCAL107	DBMS & Web Technologies Laboratory		1	--	--	2	1	50	3	-	50	100
8	PCC	1	25MCAT108	Research Methodology & IPR		3	3	--	--	1	50	3	50	-	100
	Total					23	21	0	4	8	400		350	50	800

Note: BSC-Basic Science Courses, PCC: Professional core. **IPCC**-Integrated Professional Core Courses, **PCCL** - Professional Core Course Laboratory. Each Course (PCC/PCE) shall have case study discussion and may be considered as a part of assignment.

SAAE : Students Academic Activity Engagement Hours- Self learning, Project based learning,activity based learning, peer learning etc.., Compulsory min hours to be adopted per week by the faculty is mentioned. More no. of hours may be planned by the faculty. Holistic planning shall be done by the HOD at the class level for effective & Productive Outcomes. However, allocation of these hours in the timetable is not required.

SLC : 10 to 15 courses shall be defined at the begining of the course. The student should select any one course of their interest and mentors will be alloted to them to guide through the course. Weekly assignment reviews shall be done by mentors. The sudent should complete the course by end of 3rd semester. Rubrics and methodology will be defined separately.

S. Nagamani 12/7/25

Head of the Department. of Master
of Computer Application
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Bengaluru-560060.

HOD-MCA

Dean- Academics

Principal

Academic Director

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AUTONOMOUS SCHEME OF TEACHING & EXAMINATIONS (STE)
PG - MCA 1st year

SCHEME: 2025 **SEM: II** **Date: 12.07.2025**

SL No	Course Type	Course type Count	Course Code	Course Title	Teaching Dept.	QP setting dept	Credits	L Lecture	T Tutorial	P Practical	S SAAE	CIE Marks	SEE Dur.	SEE Th. Mrks	SEE Lab. Mrk	Tot. Marks
1	IPCC	2	25MCAI201	Machine Learning	MCA	MCA	4	3	0	2	1	50	3	50	—	100
2	IPCC	3	25MCAI202	Internet of Things			4	3	0	2	1	50	3	50	—	100
3	PCC	5	25MCAT203	Object Oriented Programming using Java			3	3	0	0	1	50	3	50	—	100
4	PCC	6	25MCAT204	Data Structures & Algorithms			3	3	0	0	1	50	3	50	—	100
5	PCC	7	25MCAT205	Operating Systems-Linux			3	3	0	0	1	50	3	50	—	100
6	PCCL	2	25MCAL206	DSA Laboratory			1	--	--	2	1	50	3	—	50	100
7	PCCL	3	25MCAL207	Object Oriented Programming Laboratory			1	--	--	2	1	50	3	—	50	100
8	AEC	1	25MCAAE21	Data Visualization and Analysis with Power BI			1	0	1	1	1	50	2	50	—	100
	Total						20	15	1	9	8	400		300	100	800
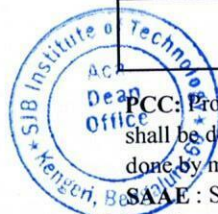
PCC: Professional core. **IPCC**-Integrated Professional Core Courses,**PEC:** Professional Elective Courses,**PCCL** - Professional Core Course Laboratory, AEC - Ability Enhancement course. **SLC :** 10 Courses shall be defined at the beginning of the course. Gthe student should select any one course of their interest and mentors will be alloted to them to guide through the course. Weekly assignment reviews shall be done by mentors. The student should complete the course by end of 3rd semester. Rubrics and methodology will be defined separately. SLC will be creadited in 4th semester.

SAAE : Students Academic Activity Engagement Hours- Self learning, Project based learning,activity based learning, peer learning etc.., Compulsory min hours to be adopted per week by the faculty is mentioned. More no. of hours may be planned by the faculty. Holistic planning shall be done by the HOD at the class level for effective & Productive Outcomes. However, allocation of these hours in the timetable is not required.

Head
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Dean- Academics

Principal

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AUTONOMOUS SCHEME OF TEACHING & EXAMINATIONS (STE)
PG - MCA IInd year

SCHEME: 2025　　　　　　　　**SEM: III**　　　　　　　　**Date:　12.07.2025**

SL No	Course Type	Course type Count	Course Code	Course Title	Teaching Dept.	QP setting dept	Credits	Teaching Hrs/Week				Examinations				
								L	T	P	S	CIE Marks	SEE			Tot. Marks
								Lecture	Tutorial	Practical	SAAE	CIE Marks	Dur.	Th. Mrks	Lab. Mrks.	Tot. Marks
1	IPCC	4	25MCAI301	Cloud Essentials	MCA	MCA	4	3	--	2	1	50	3	50	-	100
2	PEC	1	25MCAE3XY	Specializaions			3	2	2	--	1	50	3	50	-	100
3	PEC	2	25MCAE3XY	Specializaions			3	2	2	--	1	50	3	50	-	100
4	PEC	3	25MCAE3XY	Specializaions			3	2	2	--	1	50	3	50	-	100
5	INT	1	25MCAIN31	Internship			8	--	--	--	@	100	3	--	100	200
Total							21	9	6	2	4	300		200	100	600

Note: PCC: Professional core Courses, **PEC**: Professional Elective Courses. **IPCC**- Integrated Professional Core Courses, **SLC** : 10 Courses shall be defined at the beginning of the course. Gthe student should select any one course of their interest and mentors will be alloted to them to guide through the course. Weekly assignment reviews shall be done by mentors. The student should complete the course by end of 3rd semester. Rubrics and methodology will be defined separately. SLC will be creadited in 4th semester.

SAAE : Students Academic Activity Engagement Hours- Self learning, Project based learning,activity based learning, peer learning etc.., Compulsory min hours to be adopted per week by the faculty is mentioned. More no. of hours may be planned by the faculty. Holistic planning shall be done by the HOD at the class level for effective & Productive Outcomes. However, allocation of these hours in the timetable is not required.
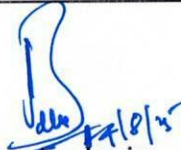
Specializations

Aritificial Intelligence [25MCAE31Y]		Security [25MCAE32Y]	
Course Code	Course title	Course Code	Course title
25MCAE311	Data Mining & Warehousing	25MCAE321	Network Security
25MCAE312	Exploratory Data Analytics	25MCAE322	Cyber Security
25MCAE313	Introduction to GenAI	25MCAE323	Block Chain Technology

Web Application Development [25MCAE33Y]		Software Development [25MCAE34Y]	
Course Code	Course title	Course Code	Course title
25MCAE331	Full Stack Web Development	25MCAE341	DevOps
25MCAE332	UI & UX Design	25MCAE342	Software Testing
25MCAE333	Advanced Databases	25MCAE343	Software Project Management

S. Nagamani
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Dean- Academics

25.8.2025

Principal

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AUTONOMOUS SCHEME OF TEACHING & EXAMINATIONS (STE)
PG - MCA IInd year

SCHEME: 2025 **SEM: IV** **Date: 12.07.2025**

SL No	Course Type	Course type Count	Course Code	Course Title	Teaching Dept.	QP setting dept	Credits	Teaching Hrs/Week				Examinations				
								L	T	P	S			SEE		
								Lecture	Tutorial	Practical	SAAE	CIE Marks	Dur.	Th. Mrks	Lab. Mrks.	Tot. Marks
1	PRJ1	1	25MCAPR41	Major Project work	MCA	MCA	12	--	--	--	@	100	3	--	100	200
2	TS	1	25MCATS42	Technical Seminar			2	--	--	--	1	100	--	--	--	100
3	SLC	1	25MCAS4XY	BOS recommended ONLINE MOOC courses			2	--	--	--	1	50	--	50	--	100
				Total			16	0	0	0	2	250		50	100	400

Note: PRJ-Project Work, SLC- Self Learning Course, TS - Technical Seminar

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25 14.81.2025
Principal

Academic Director