

|| Jai Sri Gurudev || Sri Adichunchanagiri Shikshana Trust (R) BGS Health and Education City, Dr. Vishnuvardhana Road, Kengeri, Bengaluru-560060



SJBIT/ RS/Dean (Dea.) /2025/22

Approved by AICTE, New Delhi. Autonomous Institute affiliated to Visvesvaraya Technological University, Belagavi Accredited by NAAC with 'A+'grade, Certified by ISO 9001 - 2015

Recognized by UGC, New Delhi with 2(f) & 12 (B)

AUTONOMOUS SCHEME (Tentative) PG - MCA 1st year

REVISED

SCHEME:

2024

Date: 08.01.2025

SEM:

		t l				t		Te	aching	g Hrs/	Week		Ex	aminati	ons	
SL No	Course Type	Course type Count		Course Title	Teaching Dept.	g dept	ts	L	T	P	О	S	SEE			8
			Course Code			QP setting	Credits	Lecture	Tutorial	Practical	PBL/ABL/ SL/othrs.	CIE Marks	Dur.	Th. Mrks	Lab. Mrks.	Tot. Marks
1	IPCC	1	MCA24I101	Programming in Python	MCA		4	3	0	2	-	50	3	50	-	100
2	BSC	1	MCA24T102	Mathematical Foundations for Computer Applications			3	3	0	0		50	3	50	-	100
3	PCC	1	MCA24T103	Computer Networks			3	3	0	0	-	50	3	50	-	100
4	PCC	2	MCA24T104	Database Management Systems		MCA	3	3	0	0	1	50	3	50	-	100
5	PCC	3	MCA24T105	Web Technologies		-	3	3	0	0		50	3	50	-	100
6	PCC	4	MCA24T106	Software Engineering			3	3	0	0		50	3	50	-	100
7	PCCL	1	MCA24L107	DBMS & Web Technologies Laboratory			2	-	2	2		50	3	-	50	100
8	MAC	1	MCA24M108	Research Methodology & IPR			PP/NP	1		-	2	50		-	-	50
9	AEC	1	MCA24AE11	Cyber Security Essentials	IE	IE	PP/NP		2	2		50	_	-	-	50
				Total			21	19	4	6	2	450	21	300	50	800

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

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.

Head of the Department, of Master

of Computer Application SJB Institute of Technology Bengaluru-560060.

Dean Agagemie demic Dean SJB Institute of Technology **BGS Health & Education City** Kengeri, Bengaluru-560060

Principalinal

SJB Institute of Technology # 67. BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560 060.

Note: Revised with corrections in L.T. P.O and totalling of marks.

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AUTONOMOUS SCHEME (Tentative) PG - MCA 1st year

REVISED

SCHEME:

2024

Date: 08.01.2025

		nt			Teaching Dept.	QP setting dept	Credits	Teaching Hrs/Week				Examinations						
	Course Type	Count	Course Code	Course Title				L	T	P	O	S		SEE		S		
SL No		Course type						Lecture	Tutorial	Practical	PBL/ABL/ SL/othrs.	CIE Marks	Dur.	Th. Mrks	Lab. Mrks.	Tot. Marks		
1	IPCC	2	MCA24I201	Machine Learning	MCA		4	3	0	2	-	50	3	50	1	100		
2	IPCC	3	MCA24I202	Internet of Things			4	3	0	2	-	50	3	50	-	100		
3	PCC	5	MCA24T203	Object Oriented Programming using Java		A	3	3	0	0	-	50	3	50	-	100		
4	PCC	6	MCA24T204	Data Structures & Algorithms		MC	MC	MCA	3	3	0	0		50	3	50	-	100
5	PCC	7	MCA24T205	Operating Systems-Linux			3	3	0	0		50	3	50		100		
6	PCCL	2	MCA24L206	DSA Laboratory			2		2	2		50	3	<u>-</u>	50	100		
7	PCCL	3	MCA24L207	Object Oriented Programming Laboratory			2		2	2		50	3	_	50	100		
8	AEC	2	MCA24AE21	AWS Cloud Foundations	E	IE	PP / NP		2	2		50	-	-	-	50		
				Total			21	15	6	10	0	400	21	250	100	750		

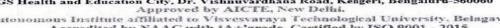
PCC: Professional core. IPCC-Integrated Professional Core Courses, PEC: Professional Elective Courses, PCCL - Professional Core Course Laboratory, AEC - Ability Enhancement course. SLC: 10 Courses shall be defined at the beginning of the course. Gthe student should select any one course of their interest 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 and methodology will be defined separately. SLC will be prof a Academic Dean

Head of the Department, of Master of ConHOR MCAplication
SJB Institute of Technology

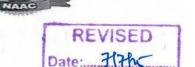
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Dean- Academics Berganin 12560060

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

SCHEME:

2024

Sem: III

Date:

07.07.2025

	Course Type			Course Title	ept.	ng dept		Teaching Hrs/Week				Examinations					
SL		type	Course Code		Teaching De		Credits	L	T	P	0	rks		SEE		Marks	
No		Course	Course Code			QP setting		Lecture	Tutorial	Practic	BL/ SL/othr	CIE Ma	Dur.	Th. Mrks	ab. Mrk	Tot. Ma	
1	IPCC	4	MCA24I301	Cloud Essentials	3 30 15	Name of Sur	4	3	I	2		50	3	50	-	100	
2	PEC	1	MCA24E3XY	Specializaions	MCA		3	2	2	-		50	3	50	-	100	
3	PEC	2	MCA24E3XY	Specializaions		MCA	3	2	2	-		50	3	50	-	100	
4	PEC	3	MCA24E3XY	Specializaions	Σ	Σ	3	2	2	-		50	3	50	-	100	
5	INT	1	MCA24IN31	Internship			8	-	1		@	100	3		100	200	
6	AEC	3	MCA24AE31	Data Visualization & Analysis with Power BI	IE	IE	PP/NP	-	2	2	1	50	-	-	-	50	
	Total					21	9	8	4	0	350	7 -	200	100	650		

Note: PCC: Professional core Courses, PEC: Professional Elective Courses. PROJ-Project Work, IPCC- Integrated Professional Core Courses, SP- Societal Project, 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.

Specializations

Aritificial Int	telligence [MCA24E31Y]	Security [MCA24E32Y]							
Course Code	Course title	Course Code	Course title						
MCA24E311	Data Mining & Warehousing	MCA24E321	Network Security						
MCA24E312	Exploratory Data Analytics	MCA24E322	Cyber Security						
MCA24E313	Introduction to GenAI	MCA24E323	Block Chain Technology						

Note: The PEC in SI.NO.4- MCA24E3XY Specialization, the SEE

So marks is in Theorymarks as for SI.NO® & 3, which

was mistakenly mentioned in Lab marks due to Typological Emor

S. Nagamani 25.

Dr. BABU. N.V
Prof & Academic Dean
SJB Institute of Technology
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Kengeri, Bengaluru-560060



	olication Development MCA24E33Y]	Software	e Development [MCA24E34Y]				
Course Code	Course title	Course Code	Course title				
MCA24E331	MCA24E331 Full Stack Web Development		DevOps				
MCA24E332	UI & UX Design	MCA24E342	Software Testing				
MCA24E333	Advanced Databases	MCA24E343	Software Project Management				

Hop-McA 07/7/2 Head of the Department, of Master of Computer Application

SJB Institute of Technology Bengaluru-560060.

Dean-Academics

Dr. BABU. N.V Prof & Academic Dean SJB institute of Technology BGS Health & Education City Kengeri, Bengaluru-560060

Principal # 67, BGS Health & Education City,
Dr. Vishnuvardhan Road,
Kengeri, Bengaluru - 560 060. **Academic Director**

Note: As discussed in the 4th Bos meeting the following Changes in Cowses & names to be noted.

i) In Artificial Intelligence Stream,
a) Data Mining & Visualization is renamed as Data Mining & ubsechousing.
(MCA24£311)

2) In web Application development Stream,

a) web Development noing FULL STACK is renamed as Full Stack web Development (MCA24E331)

b) Instead of Advanced web Technology, it was Enggested to have

VII VX Dengn (MCA 24 E 332).

3) In Software Development Gream,

a) Software Metrics & anality Ammance i's replaced with Devop's in MCA24E341.

b) Software Design & patterns is replaced with Software project Management in MCA 24 E 343.

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AUTONOMOUS SCHEME OF TEACHING & EXAMINATIONS (STE)

PG - MCA IInd year

SCHEME: 2024

SEM: IV

Date:

07.07.2025

		nt		Course Title	Teaching Dept.	QP setting dept		Te	Hrs/W	eek						
		Count	38 38 38 38 38 38					L	T	P	0		SEE			
SL No	Course Type	Course type (Course Code				Credits	Lecture	Tutorial	Practical	PBL/ABL/ SL/othrs.	CIE Marks	Dur.	Th. Mrks	Lab. Mrks.	Tot. Marks
1	PRJ1	1	MCA24PR41	Major Project work	MCA		12		-	-	@	100	3	-	100	200
2	TS	1	MCA24TS42	Technical Seminar		MCA	2		-	1	-	100	3	-		100
3	SLC	1	MCA24SL43	BOS recommended ONLINE MOOC courses		2 2		3	-			-	50		50	
				Total			17	0	0	0	0	250	0-	50	100	400

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

HOD-MCASTE 7/15

of Computer Application
SJB Institute of Technology
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Dean- Academics

Dr. BABU. N.V
Prof & Academic Dean
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fealth & Education City
For Sengaluru-560060

Principal Principal

SJB Institute of Technology # 67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560 060. 1 Cm

Academic Director