

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



BGS Health and Education City, Dr. Vishnuvardhana Road, Kengeri, Bengaluru-560060 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)

SJBIT/ PS/Dean (Dea.) /2020/22

AUTONOMOUS SCHEME (Tentative) PG - MCA 1st year

REVISED

SCHEME:

2024

Date: 08.01.2025

SEM:

11		ıt			Teaching Dept.	± .		Te	eaching	g Hrs/	Week	Examinations					
SL No	Course Type Countse type Counts	Coun				g dept	ts	L	Т	P	o	S	SEE			S	
		type	Course Code	Course Title		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			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	MCA	3	3	0	0		50	3	50	-	100	
5	PCC	3	MCA24T105	Web Technologies	2	2	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		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	
			V	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.

Dear Agademic 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.



SJB Institute of Technology



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AUTONOMOUS SCHEME (Tentative) PG - MCA 1st year

REVISED

SCHEME:

2024

Date: 08.01.2025

SEM: II

		ınt			Dept.	setting dept		Т	eachin	g Hrs/V	Veek	Examinations					
SL	Course	Count					its	L	Т	P	О	S		SEE		S	
No	Course Code Course Lifle	Course Title	Teaching Dept.	QP settin		Lecture	Tutorial	Practical	PBL/ABL/ SL/othrs.	CIE Marks	Dur.	Th. Mrks	Lab. Mrks.	Tot. Marks			
1	IPCC	2	MCA24I201	Machine Learning			4	3	0	2	-	50	3	50	1	100	
2	IPCC	3	MCA24I202	Internet of Things	MCA		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		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		50	100	
7	PCCL	3	MCA24L207	Object Oriented Programming Laboratory			2		2	2		50	3	_	50	100	
8	AEC	2	MCA24AE21	AWS Cloud Foundations	IE	IE	PP / NP		2	2	-	50	1	-	_	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 creadited in 4th semester.

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

SJB Institute of Technology BGS Health & Education City Dean- Academics Desgraph 560060

SJB Institute of Technology
67, BGrincipan & Education City,
Dr. Vishnuvardhan Road,
Kengeri Bengalum, 560,060



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AUTONOMOUS SCHEME (Tentative) PG - Second Year MCA

SCHEME:

2024

Date:

08.01.2025

	S	EM:	III															
		.		Course Title	Teaching Dept.		<u>s</u>	Teaching Hrs/Week				Examinations						
		Count				QP setting dept		L	T	P	o	S	SEE			S		
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	IPCC	4	MCA24I301	Cloud Essentials			4	3		2		50	3	50		100		
2	PEC	1	MCA24E3XY	Specializaions		20		3	2	2			50	3	50	-	100	
3	PEC	2	MCA24E3XY	Specializaions	MCA	MCA	MCA	3	2	2			50	3	50	-	100	
4	PEC	3	MCA24E3XY	Specializaions	Σ			Σ	Σ	Σ	3	2	2		Fr. 4-10	50	3	
5	INT	1	MCA24IN31	Internship			8			-	@	100	3	- 1	100	200		
6	AEC	3	MCA24AE31	Data Visualization & Analysis with Power BI	Œ	E	PP/NP	-	2	2		50	-	-	1	50		
				Total			21	9	8	4	0	350	15	150	150	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

Ari	tificial Intelligence		Security
Course Code	Course title	Course Code	Course title
MCA24E311	Data Mining & Visualization	MCA24E321	Network Security
MCA24E312	Exploratory Data Analytics	MCA24E322	Cyber Security
MCA24E313	Introduction to GenAI	MCA24E323	Block Chain Technology

Web Ap	plication Development		Software Development
Course Code	Course title	Course Code	Course title
MCA24E331	Web Development using FULL STACK	MCA24E341	Software Metrics & Quality Assurance
MCA24E332	Advanced Web Technology	MCA24E342	Software Testing
MCA24E333	Advanced Databases	MCA24E343	Software Design & Patterns

S. Nogamani HOD-MCA Of 1/25.

of Computer Application

SJB Institute of Technology

Bengaluru-560060.

Dean- Academies 09701/16

Head of the Department, of Master

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

Principal
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AUTONOMOUS SCHEME (Tentative) PG - Second Year MCA

REVISED

SCHEME: 2024

SEM: IV

Date: 08.01.2025

		unt						Te	aching	Hrs/W	eek		Examinations										
		Co			ept.	dept		L	T	P	0		SEE										
SL No	Course Type	Course type	Course Code Course Title G	Teaching Dept.	QP setting o	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 MCA	MCA		12		-		@	100	3		100	200						
2	TS	1	MCA24TS42	Technical Seminar			2	222		-	@	100	3			100							
3	SLC	1	MCA24SL43	BOS recommended ONLINE NPTEL courses			2 2								2	3					50		50
				Total		1	17	0	0	0	0	250	6	50	100	400							

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

HOD-MCA

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

Dean- Academics

Dr. BABU. N.V
Prof & Academic Dean
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Principal

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Kengeri, Bengaluru - 560 060.