

SJB Institute of Technology



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

SCHEME:

2023

Aca. Year.: 2023-24

Date: 22.01.2024

SEM:

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	ype	Course Code Course Title	*		Dept.	dept	ts	L T I		P	0	S	SEE			S			
SL No	Course T		Teaching	QP setting	Credits	Lecture	Tutorial	Practical	PBL/ABL/ SL/othrs.	CIE Marks	Dur.	Th. Mrks	Lab. Mrks.	Tot. Marks					
1	BSC	1	23MCAT101	Mathematical Foundation for Computer Applications			3	3	0	-		50	3	50		100			
2	IPCC	1	23MCAI102	Operating Systems - Linux						4	3	0	2		50	3	50	-	100
3	IPCC	2	23MCAI103	Computer Networks	4	-	4	3	0	2		50	3	50	-	100			
4	PCC	1	23MCAT104	Programming in Python	MCA	MCA	3	3	0			50	3	50	•	100			
5	PCC	2	23MCAT105	Database Systems & Modeling			3	3	0	1		50	3	50	1	100			
6	PCCL	1	23MCAL106	Python Programming Laboratory			2	1	2	2		50	3	-	50	100			
7	PCCL	2	23MCAL107	Database Systems & Modeling Laboratory			2	1	2	2		50	3	-	50	100			
8	AEC	1	23MCAAE11	Ability Ennhancement course-1	IE	IE	2	-	2	2		50	3	50	-	100			
				Total			23	15	6	10	0	400		300	-	800			
9	MAC	1	23MCAM108	Basics of Programming & Computer Organization	MCA		PP	2	2			50		-	-	50			

BSC-Basic Science Courses, PCC: Professional core. IPCC-Integrated Professional Core Courses, PCCL - Professional Core Course Laboratory, MAC - Mandatory Audit course for non Computer Science students only. Each Course (PCC/PCE) shall have case study discussion and may be considered as a part of assignment. AEC: Ability Enhancement Course, SLC: 10 courses shall be defined at the beginning 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. SLC with the credited in 4th Semester

C. Nogamani [HOD-MCA] Dr. BABU. N.V Rrof. & Academic Dean SH Mathite of Technology BGS Health & Education City Kengeri, Bengaluru-560060

67, BGS Health & Education City,
Dr. Vishnuvardhan Road,
Kengeri Rengalum 560,060



Sri Adichunchanagiri Shikshana Trust (R) SJB Institute of Technology GS Health and Education City, Dr. Vishnuvardhana Road, Kengeri, Bengaluru-560060 Approved by AICTE, New Delhi.



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AUTONOMOUS SCHEME (Tentative) PG - MCA 1st year

SCHEME:

2023

Aca. Year.: 2023-24

Date 22.03.2024

SEM: II

	Type	ount			Dept.	setting dept	its	Te	aching	Hrs/V	Veek	Examinations				
SL		Course Code Course Title						L	T	P	0	S		SEE		S
No	Course		Teaching	QP settin	Credits	Lecture	Tutorial	Practical	PBL/ABL/ SL/othrs.	CIE Marks	Dur.	Th. Mrks	Lab. Mrks.	Tot. Marks		
1	PCC	3	23MCAT201	Data Structures & Analysis of Algorithms			3	3				50	3	50	_	100
2	PCC	4	23MCAT202	Object Oriented Programming				3	3				50	3	50	_
3	PCC	. 5	23MCAT203	Software Engineering & Product Management			3	3	-			50	3	50	_	100
4	IPCC	3	23MCAI204	Web Technologies -1]_	_	4	3		2		50	3	50	_	100
5	PEC	1	23MCAE21y	Professional Elective 1	MCA	MCA	3	2	2			50	3	50	_	100
6	PEC	2	23MCAE22y	Professional Elective 2			3	2	2			50	3	50	_	100
. 7	PCCL	3	23MCAL207	DSA Laboratory			2	-	2	2		50	3		50	100
8	PCCL	4	23MCAL208	Object Oriented Programming Laboratory			2	-	2	2		50	3		50	100
9	PCC	6	23MCAM209	Reseach Methodology & IPR			2	2				50	3	50		100
10	AEC	2	23MCAAE21	Ability Ennhancement course-2	IE	IE	2		2	2		50	3	50		100
	Total					27	18	10	6		500		400	100	1000	

PCC: Professional core courses, PEC: Professional Elective Courses, IPCC-Integrated Professional Core Courses, PCCL - Professional Core Course Laboratory, AEC- Ability Enhancement Course.

SLC: 10 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. SLC will be credited in 4th Semester

	Professional Elective 1 [23Mc A21y]	Professional Elective 2 [23McA:							
Course Code	Course title	Course Code	Course title						
23MCAE211	Data Mining & Warehousing	23MCAE221	Artificial Intelligence & Machine Learning						
23MCAE212	UI & UX Design	23MCAE222	Mobile Computing						
23MCAE213	Cloud Computing	23MCAE223	Edge Computing						
23MCAE214	Computer Vision	23MCAE224	Digital Marketing						

S. Nagamani. [HOD-MCA]

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

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

Note: changes in course codes of Professional elective courses.







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AUTONOMOUS SCHEME (Tentative) PG - Second Year MCA

SCHEME:

2023

Aca. Year.: 2024-25

Date:

22.01.2024

SEM: III

	SENT. III			ode Course Title	Dept.			Te	eaching	Hrs/We	ek		Ex	aminati	ations					
		Count	Course Code			dept	sı	L	T	P	S	50	SEE			100				
SL No	Course Type	Course type			Teaching Dept.	QP setting	Credits	Lecture	Tutorial	Practical	PBL/ABL/ SL/othrs.	CIE Marks	Dur.	Th. Mrks	Lab. Mrks.	Tot. Marks				
1	PCC	7	23MCAT301	Data Analytics			3	3	-	-		50	3	50	-	100				
2	PCC	8	23MCAT302	Internet of Things	MCA		3	3		-		50	3	50		100				
3	IPCC	4	23MCAI303	Web Technologies - 2		MCA		4	3		2		50	3	50	-	100			
4	PEC	3	23MCAE33y	Professional Elective 3			MCA	МСА	3	2	2			50	3	50	-	100		
5	PEC	4	23MCAE34y	Professional elective 4				M	M	M	M	M	3	2	2			50	3	50
6	PCCL	5	23MCAL306	Data Analytics Lab			2	-	2	2		50	3		50	100				
7	PCCL	6	23MCAL307	IoT Laboratory			2		2	2		50	3		50	100				
8	PRJ	1	23MCAPR31	Societal Project			2				@	100				100				
9	PRJ	2	23MCAPR32	Mini Project			2				@	100				100				
10	INT	1	23MCAIN31	Internship			2				@	50	3		50	100				
11	AEC	2	23MCAAE31	Ability Ennhancement course-3]	Œ	2		2	2		50	3	50		100				
	Total					28	13	10	8		700	21	250	150	1100					

Note: PCC: Professional core Courses, PEC: Professional Elective Courses. PROJ-Project Work, IPCC- Integrated Professional Core Courses, SP- Societal Project, SLC: 10 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. SLC will be credited in 4th Semester

	Professional Elective - 3[23McA33y]	Professional Elective - 4 [23McA341]								
Course code	Course Title	CourseCode	Course Title							
23MCAE331	Generative AI	23MCAE341	Enterprises resource Planning							
23MCAE332	Cyber Security &Block chain Technology	23MCAE342	Software Metrics & Quality Assurance							
23MCAE333	Devops	23MCAE343	Semantic Web and Social Networks							
23MCAE334	NOSQL	23MCAE344	Optimization Techniques							

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Principal
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Note: Changer in course codes of professional elective courses.



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

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SCHEME:

2023

Aca. Year.: 2024-25

Date:

22.01.2024

SEM: IV

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		ount				dept		L	T	P	0			SEE				
	Course Type	Course type C	Course Code			QP setting	Credits	Lecture	Tutorial	Practical	PBL/ABL/ SL/othrs.	CIE Marks	Dur.	Th. Mrks	Lab. Mrks.	Tot. Marks		
1	PRJ	3	23MCAPR41	Major Project work with Seminar & Technical Paper writing	CA.	MCA MCA	20	-		-	@	250	3	-	250	500		
2	SLC	1	23MCASL42	BOS recommended ONLINE NPTEL courses	MC		M	M	M	2	-	-	-	@	50	-	50	-
	Total					22	0	0	0	0	250	3	-	250	500			

Note: PRJ-Project Work, SLC- Self Learning Course

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