



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

SJB Institute of Technology

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)



REVISED

AUTONOMOUS SCHEME (Tentative) PG - MCA 1st year

SCHEME: 2023

Date: 07.11.2024

SEM: I

SL No	Course Type	Course type Count	Course Code	Course Title	Teaching Dept.	QP setting dept	Credits	Teaching Hrs/Week				Examinations				
								L	T	P	O	CIE Marks	SEE			Tot. Marks
								Lecture	Tutorial	Practical	PBL/ABL/SL/others.		Dur.	Th. Mrks	Lab. Mrks.	
1	BSC	1	23MCAT101	Mathematical Foundation for Computer Applications	MCA	MCA	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	3	0	2	50	3	50	-	100	
4	PCC	1	23MCAT104	Programming in Python			3	3	0	--	50	3	50	-	100	
5	PCC	2	23MCAT105	Database Systems & Modeling			3	3	0	--	50	3	50	-	100	
6	PCCL	1	23MCAL106	Python Programming Laboratory			2	--	2	2	50	3	-	50	100	
7	PCCL	2	23MCAL107	Database Systems & Modeling Laboratory			2	--	2	2	50	3	-	50	100	
8	AEC	1	23MCAAE11	Cyber Security Essentials		IE	2	--	2	2	50	2	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	

Note: 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 to 15 courses shall be defined at the beginning of the course. The student should select any one course of their interest and mentors will be allotted 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

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Note:


23MCAAE11 : change in generic course title to specific course title.

Please note that the course title in Syllabus copy was already updated.

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AUTONOMOUS SCHEME (Tentative) PG - MCA 1st year

SCHEME: 2023

Date: 07.11.2024

SEM: II

SL No	Course Type	Course type Count	Course Code	Course Title	Teaching Dept.	QP setting dept	Credits	Teaching Hrs/Week				Examinations				
								L Lecture	T Tutorial	P Practical	O PBL/A BL/ SL/oth	CIE Marks	SEE			Tot. Marks
													Dur.	Th. Mrks	Lab. Mr	
1	PCC	3	23MCAT201	Data Structures & Analysis of Algorithms	MCA	MCA	3	3	--	--	50	3	50	-	100	
2	PCC	4	23MCAT202	Object Oriented Programming			3	3	--	--	50	3	50	-	100	
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			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	Research Methodology & IPR			2	2	--	--	50	3	50		100	
10	AEC	2	23MCAAE21	AWS Cloud Foundations	IE	IE	2	--	2	2	50	2	50		100	
Total							27	18	10	6	500	29	400	100	1000	

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 allotted 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 credited in 4th semester.

Professional Elective 1		Professional Elective 2	
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

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Note:

23MCAE21 : change in generic course title to specific course title.

Please note that the course title in syllabus copy was already updated.

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AUTONOMOUS SCHEME (Tentative) PG - Second Year MCA

SCHEME: 2023

Date: 07.11.2024

SEM: III

SL No	Course Type	Course type	Course Code	Course Title	Teaching Dept.	QP setting dept	Credits	Teaching Hrs/Week				Examinations				
								L	T	P	O	CIE Marks	SEE			Tot. Marks
								Lecture	Tutorial	Practic	PBL/A BL/		Dur.	Th. Mrks	Lab. Mr	
1	PCC	7	23MCAT301	Data Analytics	MCA	MCA	3	3	--	--	50	3	50	-	100	
2	PCC	8	23MCAT302	Internet of Things			3	3	--	--	50	3	50		100	
3	IPCC	4	23MCAI303	Web Technologies - 2			4	3	-	2	50	3	50	-	100	
4	PEC	3	23MCAE33Y	Professional Elective 3			3	2	2	--	50	3	50	-	100	
5	PEC	4	23MCAE34Y	Professional elective 4			3	2	2	--	50	3	50	-	100	
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	3	23MCAA31	Data Visualization and Analysis With Power BI	IE		2		2	2	50	2	50	--	100	
Total							28	13	10	8	650	26	300	150	1100	

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 allotted 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 credited in 4th semester.

Professional Elective 3		Professional Elective 4	
Course Code	Course title	Course Code	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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SCHEME: 2023

Date: 07.11.2024

SEM: IV

SL No	Course Type	Course type Count	Course Code	Course Title	Teaching Dept.	QP setting dept	Credits	Teaching Hrs/Week				Examinations				
								L	T	P	O	CIE Marks	SEE		Tot. Marks	
								Lecture	Tutorial	Practical	PBL/ABL/ SL/others.		Dur.	Th. Mrks		Lab. Mrks.
1	PRJ3	1	23MCAPR41	Major Project work	MCA	MCA	18		-	-	@	200	3	-	200	400
2	SE	1	23MCASE42	Technical Paper writing with Seminar			2				@	50			50	100
3	SLC	1	23MCAS438	BOS recommended ONLINE NPTEL courses			2					50	-	50	--	100
Total							22	0	0	0	0	300	3	50	250	600

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

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