

Faculty of Commerce and Management Science

REGULATIONS SPECIFIC TO

M.C.A. PROGRAMME

(Applicable for University Department &

Affiliated Colleges)



**Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad.**

(With Effect from Academic Year 2018-19)

MCA Course Structure

Sem	Course	Ref. No	Subject Title	Credit	No. of Hrs. per Sem/Min Assessment/Tutorial	Exam Hrs.	Marks		Total
							Internal	End Sem Exam	
I	Generic Foundation Course	MANC401	Computer Organization & Architecture	4	60 – 05	3	20	80	100
		MANC402	Information System Analysis & Design Methodology	4	60 – 05	3	20	80	100
		MANC403	Mathematics – I	4	60 – 05	3	20	80	100
		MANC404	Basic of Web technology	4	60 – 05	3	20	80	100
		IC0001	Constitution of India	2	30	1.5	10	40	50
		MANC405	Research Methodology	2	30	1.5	10	40	50
		MANC406	Yoga	2	30	1.5	50	--	50
	Skill Based Foundation Course	MANC451	Practical Based on MANC404	2	30	1.5	10	40	50
	Core Course	MANC407	Object Oriented Programming using C++	4	60 – 05	3	20	80	100
		MANC452	Practical Based on MANC407	2	30	1.5	10	40	50
			Total	30	450		190	560	750

Sem	Course	Ref. No	Subject Title	Credit	No. of Hrs. per Sem/Min Assessment/Tutorial	Exam Hrs.	Marks		Total
							Internal	End Sem Exam	
II	Generic Foundation Course	MANC408	Operating System Concepts	4	60 – 05	3	20	80	100
		MANC409	Database Management System	4	60 – 05	3	20	80	100
		MANC410	Mathematics – II	4	60 – 05	3	20	80	100
	Skill Based Foundation Course	MANC453	Practical Based on MANC409	2	30	1.5	10	40	50
	Core Course	MANC411	Software Engineering	4	60 – 05	3	20	80	100
		MANC412	Data Structure Using C++	4	60 – 05	3	20	80	100
		MANC413	ASP.NET	4	60 – 05	3	20	80	100
		MANC454	Practical Based on MANC412	2	30	1.5	10	40	50
		MANC455	Practical Based on MANC413	2	30	1.5	10	40	50
				Total	30	450		150	600

Sem	Course	Ref. No	Subject Title	Credit	No. of Hrs. per Sem/Min Assessment/Tutorial	Exam Hrs.	Marks		Total
							Internal	End Sem Exam	
III	Core Course	MANC501	Entrepreneurship Development	4	60 – 05	3	20	80	100
		MANC502	Software Testing – I	4	60 – 05	3	20	80	100
		MANC503	Java Programming	4	60 – 05	3	20	80	100
		MANC504	Design and Analysis of Algorithms	4	60 – 05	3	20	80	100
		MANC505	Advance Database Management System	4	60 – 05	3	20	80	100
		MANC551	Practical Based on MANC503	2	30	1.5	10	40	50
		MANC552	Practical Based on MANC504	2	30	1.5	10	40	50
		MANC553	Practical Based on MANC505	2	30	1.5	10	40	50
		MANC554	Project	4	60	--	20	80	100
	Open Elective Course	MANC52X	Group A	4	60 – 05	3	20	80	100
Total				34	510		170	680	850

Open Elective Course: Group A

Elective Course	MANC521	Cloud Computing	4	60 – 05	3	20	80	100
	MANC522	Artificial Intelligence						
	MANC523	Cyber Laws						
	MANC524	ERP						

Sem	Course	Ref. No	Subject Title	Credit	No. of Hrs. per Sem/Min Assessment/Tutorial	Exam Hrs.	Marks		Total
							Internal	End Sem Exam	
IV	Skill Based Foundation Course	MANC506	Verbal & Non- Verbal Aptitude	4	60 – 05	3	100	--	100
	Core Course	MANC507	Software Testing – II	4	60 – 05	3	20	80	100
		MANC508	Advanced Data Communication and Networks	4	60 – 05	3	20	80	100
		MANC509	Object Oriented Analysis and Design	4	60 – 05	3	20	80	100
		MANC510	Linux Administration and Server Configuration	4	60 – 05	3	20	80	100
		MANC555	Practical Based on MANC507	2	30	1.5	10	40	50
		MANC556	Practical Based on MANC510	2	30	1.5	10	40	50
		MANC560	Project	4	60	--	20	80	100
		Open Elective Course	MANC52X	Group B	4	60 – 05	3	20	80
	MANC55X	Practical Based on Group B	2	30	1.5	10	40	50	
	Total				34	510		250	600

Open Elective Course: Group B

Elective Course	MANC525	Advanced Java	4	60 - 05	3	20	80	100
	MANC557	Practical Based on MANC525	2	30	1.5	10	40	50
	MANC526	C Sharp	4	60 - 05	3	20	80	100
	MANC558	Practical Based on MANC526	2	30	1.5	10	40	50
	MANC527	Data Mining	4	60 - 05	3	20	80	100
	MANC559	Practical Based on MANC527	2	30	1.5	10	40	50

Sem	Course	Ref. No	Subject Title	Credit	No. of Hrs. per Sem/Min Assessment/ Tutorial	Exam Hrs.	Marks		Total
							Internal	End Sem Exam	
V	Generic Foundation Course	MANC701	Software Project Management	4	60 - 05	3	20	80	100
	Skill Based Foundation Course	MANC702	Quantitative Aptitude	4	60 - 05	3	100	--	100
	Core Course	MANC703	Ethical Hacking	4	60 - 05	3	20	80	100
		MANC704	Web Development using PHP	4	60 - 05	3	20	80	100
		MANC751	Practical Based on MANC704	2	30	1.5	10	40	50
		MANC705	Java Server Pages (JSP)	4	60 - 05	3	20	80	100
		MANC752	Practical Based on MANC705	2	30	1.5	10	40	50
		MANC756	Summer Internship	2	30	--	10	40	50
		MANC757	Project	2	30	--	10	40	50
	Open Elective Course	MANC72X	Group C	4	60 - 05	3	20	80	100
MANC75X		Practical Based on Group C	2	30	1.5	10	40	50	
Total				34	510		250	600	850

Open Elective Course: Group C

Elective Course	MANC721	Android Development	4	60 - 05	3	20	80	100
	MANC753	Practical Based on MANC721	2	30	1.5	10	40	50
	MANC722	Image Processing	4	60 - 05	3	20	80	100
	MANC754	Practical Based on MANC722	2	30	1.5	10	40	50
	MANC723	Hadoop	4	60 - 05	3	20	80	100
	MANC755	Practical Based on MANC723	2	30	1.5	10	40	50