

Government College of Engineering, Karad

(An Autonomous Institute of Government of Maharashtra)

MCA First year

Curriculum Structure (W.E.F. AY 2017-18)

Semester – I

Sr. No.	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Credits	EXAM SCHEME				
								CT1	CT2	TA/CA	ESE	TOTAL
1	MC101	Digital Electronics & Microprocessor	3	-	-	3	3	15	15	10	60	100
2	MC102	Computer Organisation and Architecture	3	-	-	3	3	15	15	10	60	100
3	MC103	Discrete Mathematics	3		-	3	3	15	15	10	60	100
4	MC104	Data Structures and Algorithms	3	-	-	3	3	15	15	10	60	100
5	MC105	Software Engineering	3	1	-	4	4	15	15	10	60	100
6	MC106	Digital Electronics & Microprocessor Lab	-	-	2	2	1	-	-	50	-	50
7	MC107	C Programming Lab	-	2	4	6	4	-	-	25	50	75
8	MC108	Data Structure and Algorithm Lab	-	-	2	2	1	-	-	25	50	75
9	MC109	Web Programming Lab	-	2	2	4	3	-	-	50	-	50
		Total	15	5	10	30	25	75	75	200	400	750

L- Lecture T-Tutorial P-Practical

CT1- Class Test 1

TA/CA- Teacher Assessment for theory courses / Continuous Assessment for lab courses

CT2- Class Test 2

ESE- End Semester Examination (For Laboratory End Semester performance)

Credits Distribution:

Course Category	HS (Hum. And So.Sci)	BS (Basic Sc.)	ES (Eng. Sc.)	PC (Programme Core)	PE (Programme Electives)	OE (Open Elective)	MC (Mandatory Course)
Credits	0	0	0	25	0	0	0
Cumulative Sum	0	0	0	25	0	0	0

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Semester – II

Sr. No.	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Credits	EXAM SCHEME				
								CT1	CT2	TA/CA	ESE	TOTAL
1	MC201	Computer Oriented Numerical and Statistical Methods	3	1	-	4	4	15	15	10	60	100
2	MC202	Principle Of Management	3	-	-	3	3	15	15	10	60	100
3	MC203	Object Oriented Programming	3	-	-	3	3	15	15	10	60	100
4	MC204	System Software	3	-	-	3	3	15	15	10	60	100
5	MC205	Database Management System	3	-	-	3	3	15	15	10	60	100
6	MC206	Object Oriented Programming Lab	-	-	4	4	2	-	-	25	50	75
7	MC207	Database Management System Lab	-	-	4	4	2	-	-	25	50	75
8	MC208	Seminar	-	2	-	2	2	-	-	50	-	50
9	MC209	Soft Skills	-	2	2	4	3	-	-	50	-	50
		Total	15	5	10	30	25	75	75	200	400	750

L- Lecture T-Tutorial P-Practical

CT1- Class Test 1

TA/CA- Teacher Assessment for theory courses / Continuous Assessment for lab courses

CT2- Class Test 2

ESE- End Semester Examination (For Laboratory End Semester performance)

Credits Distribution:

Course Category	HS (Hum. And So.Sci)	BS (Basic Sc.)	ES (Eng. Sc.)	PC (Programme Core)	PE (Programme Electives)	OE (Open Elective)	MC (Mandatory Course)
Credits	6	0	0	19	0	0	0
Cumulative Sum	6	0	0	44	0	0	0

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MCA Second year
Curriculum Structure (W.E.F. AY 2017-18)
Semester – III

Sr. No.	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Credits	EXAM SCHEME				
								CT1	CT2	TA/CA	ESE	TOTAL
1	MC301	Operating System	3	1	-	4	4	15	15	10	60	100
2	MC302	Computer Networks	3	-	-	3	3	15	15	10	60	100
3	MC303	Enterprise Resource Planning	3	2	-	5	5	15	15	10	60	100
4	MC304	Object Oriented Modeling and Design	3	-	-	3	3	15	15	10	60	100
5	MC305	Software Testing	3	-	-	3	3	15	15	10	60	100
6	MC306	Computer Networks Lab	-	-	2	2	1	-	-	50	-	50
7	MC307	Object Oriented Modeling and Design Lab	-	-	2	2	1	-	-	50	-	50
8	MC308	Software Testing Lab	-	-	2	2	1	-	-	25	25	50
9	MC309	Advanced Java Programming Lab	-	2	4	6	4	-	-	50	50	100
		Total	15	5	10	30	25	75	75	225	375	750

L- Lecture T-Tutorial P-Practical

CT1- Class Test 1 TA/CA- Teacher Assessment for theory courses / Continuous Assessment for lab courses

CT2- Class Test 2 ESE- End Semester Examination (For Laboratory End Semester performance)

Credits Distribution:

Course Category	HS (Hum. And So.Sci)	BS (Basic Sc.)	ES (Eng. Sc.)	PC (Programme Core)	PE (Programme Electives)	OE (Open Elective)	MC (Mandatory Course)
Credits	0	0	0	44	0	0	0
Cumulative Sum	6	0	0	69	0	0	0

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MCA Second year

Curriculum Structure (W.E.F. AY 2017-18)

Semester – IV

Sr. No.	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Credits	EXAM SCHEME				
								CT1	CT2	TA/CA	ESE	TOTAL
1	MC401	Information Security	3	-	-	3	3	15	15	10	60	100
2	MC402	Advanced Database System	3	-	-	3	3	15	15	10	60	100
3	MC4*3	Elective-I	3	-	-	3	3	15	15	10	60	100
4	MC404	E-Governance	3	-		3	3	15	15	10	60	100
5	MC409	Computer Algorithm	3	-	-	3	3	15	15	10	60	100
6	MC405	Web Technology Lab	-	1	2	3	2	-	-	25	25	50
7	MC406	Scripting Language Lab	-	1	2	3	2	-	-	25	25	50
8	MC407	Project Planning and Management Lab	-	1	4	5	3	-	-	50	50	100
9	MC408	Business Communication	-	2	2	4	3	-	-	50	-	50
		Total	15	5	10	30	25	75	75	200	400	750

L- Lecture T-Tutorial P-Practical

CT1- Class Test 1

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CT2- Class Test 2

ESE- End Semester Examination (For Laboratory End Semester performance)

Elective-I

1. Digital Forensics

2. Embedded Systems

3. Distributed Systems

Credits Distribution:

Course Category	HS (Hum. And So.Sci)	BS (Basic Sc.)	ES (Eng. Sc.)	PC (Programme Core)	PE (Programme Electives)	OE (Open Elective)	MC (Mandatory Course)
Credits	6	0	0	16	3	0	0
Cumulative Sum	12	0	0	85	3	0	0

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MCA Third year
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Semester – VI

Sr. No.	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Credits	EXAM SCHEME				
								CT1	CT2	TA/CA	ESE	TOTAL
1	MC601	Industrial Project	-	-	-	30	15	-	-	100	100	200
		Total	-	-	-	30	15	-	-	100	100	200

L- Lecture T-Tutorial P-Practical

CT1- Class Test 1

CT2- Class Test 2

TA/CA- Teacher Assessment for theory courses / Continuous Assessment for lab courses

ESE- End Semester Examination (For Laboratory End Semester performance)

Credits Distribution:

Course Category	HS (Hum. And So.Sci)	BS (Basic Sc.)	ES (Eng. Sc.)	PC (Programme Core)	PE (Programme Electives)	OE (Open Elective)	MC (Mandatory Course)
Credits	0	0	0	15	0	0	0
Cumulative Sum	15	0	0	116	9	0	0