

Name of the Department: MCA

Academic Year: 2020-21(2021 Passed Out)

PG Program: MCA

	Target Fixed	Target Achieved	Observation(Attained/Not Attained)	Actions Taken		
				A1	A2	A3
PO1	1.95	1.96	Attained	--	--	--
PO2	1.95	1.92	Not Attained	In order to achieve the target, in the new curriculum we have introduced the mandatory Internship as part of the course work. Which will provide them the latest art of domain knowledge and technology to meet the requisite attainment.	In order to achieve the target, in the new curriculum we have introduced the latest tools like Python, VS Code, etc.	
PO3	1.95	2.03	Attained	--	--	--
PO4	1.95	2.02	Attained	--	--	--
PO5	1.95	2.07	Attained	--	--	--
PO6	1.95	2.16	Attained	--	--	--

Evidences:

1. Drive Link for CO PO mapping Sheets Semester wise:
2. Complete PO attainment table for 2017 batch (AY: 2020-21) hard copy endorsed by Head of the department.

In-Charge

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DEPARTMENT OF MCA
CO PO ARTICULATION MATRIX 2020-21

Serial No.	SEM	Subject Code	Subject Name	PO1	PO2	PO3	PO4	PO5	PO6
1	SEM I	16MCC101	Discrete Mathematics	2.67	2.83	1.5	2.17	1	1.17
2	SEM I	16MCC102	Computer Programming and Problem Solving	1.15	1.06	0.9	1.45	0.85	1.17
3	SEM I	16MCC103	Elements Of Information Technology	2.5	2.17	2	2.33	1.17	1.83
4	SEM I	16MBC128	Managerial Economics and Financial Analysis	1.33	1.83	1.5	2.67	1.33	2.8
5	SEM I	16EGC101	Professional Communication in English	1	1.4	1.2	1.6	2.8	1.6
6	SEM I	16MCC104	Computer Programming Lab Using C	2.17	1.67	1.33	2.33	1.67	1
7	SEM I	16MCC105	Elements of Information Technology Lab	1.33	1.17	2.67	1	1.33	1.17
8	SEM I	16EGC102	Professional Communication Lab	1	1	1	1.2	3	1
9	SEM II	16MCC106	Object Oriented Programming(OOP)	2.67	2.5	1.83	1.67	1.83	1.17
10	SEM II	16MCC107	Computer Organization	2.33	2.67	1.67	1.5	1.17	1
11	SEM II	16MCC108	Software Engineering	2.33	2.33	2.5	2.17	2.17	2.33
12	SEM II	16MCC109	Data Structures Using C++	2.83	2	2	1.83	1.83	1.33
13	SEM II	16MCC110	Operations Research	2.67	3	1.5	1.33	2	1
14	SEM II	16MTC102	Probability and Statistics	3	2.4	1.6	1.6	1.8	1
15	SEM II	16MCC111	Object Oriented Programming Lab Using Java	2	2.17	2.5	2	2.5	2.33
16	SEM II	16MCC112	Data Structures Lab Using C++	2	2.67	2.17	1.83	1.5	1
17	SEM III	16MCC113	Database Management Systems	1.83	2.17	1.83	1.5	2	1.33
18	SEM III	16MCC114	Web Technologies	2	2.33	3	2.67	2.33	1.67
19	SEM III	16MCC115	Design and Analysis of Algorithms	3	2.6	1	2	2	1.8
20	SEM III	16MCC116	Operating Systems	2.83	1.5	1.33	1.5	1.67	1.33
21	SEM III	16MBC04/ 16CEC03 /	HVPE / Entrepreneurship	1	1	1	1.8	2.8	2
22	SEM III	16MEE20/16CE		1.83	1.17	1.83	1.5	2	1.33
23	SEM III	16MCC117	Database Management Systems Lab	2	2.67	2.67	2.33	1.83	1.67
24	SEM III	16MCC118	Web Technologies Lab	2.1	2.7	2.1	2.7	1.95	1.5
25	SEM III	16MCC119	Operating Systems Lab	2.83	1.5	1.33	1.5	1.67	1.33
26	SEM IV	16MCC120	Computer Networks	2	2.33	1.33	1.17	1.17	1.17
27	SEM IV	16MCC121	Data warehousing and Data Mining	2.17	2.17	2.17	1.83	1.83	1.5
28	SEM IV	16MCC122	Advanced Java Programming	2.83	3	2.67	2.5	1.33	1.5
29	SEM IV	16MCE103	ANN	2.6	2.4	2.6	1.8	2	1.6
30	SEM IV	16MCE102	Software Testing	1.83	2	2	1.17	1.17	1.67
31	SEM IV	16MCE106	CLOUD COMPUTING	2	2.83	2.83	2.83	1	1.17
32	SEM IV	16MCE107	SOFTWARE PROJECT MANAGEMENT	1.83	1.83	1.67	1.33	2.17	1.5
33	SEM IV	16MCC123	Computer Networks Lab	1.33	1.83	2.5	1.33	1.33	1
34	SEM IV	16MCC124	Data warehousing and Data Mining Lab	3.11	3.14	3.61	2.5467	1.91	2.11
35	SEM IV	16MCC125	Mini Projects	1.33	1.83	2.5	1.33	1.33	1
36	SEM V	16MCC126	Object Oriented System Development(OOSD)	2	2.67	2	2.5	1.67	2.17
37	SEM V	16MCC127	Machine Learning	2	1.17	2.17	1.5	1.5	1.17
38	SEM V	16MCC128	Cryptography & Network Security	1.33	2.83	2.17	1.83	1.83	1.67
39	SEM V	16MCE110	IOT	2.17	2.67	2	2.83	1.5	1
40	SEM V	16MCE111	BIA	1.67	2.17	1.5	2	1.83	1.5
41	SEM V	16MCE113	BIG DATA ANALYTICS	2.83	3	2.67	2.5	1.33	1.5
42	SEM V	16MCE114	E-COMMERCE	2.33	1.67	1.5	1.33	1.5	1.17
43	SEM V	16MCC129	Object Oriented System Development Lab	2	2.67	2	2.5	1.67	2.17
44	SEM V	16MCC130	Machine Learning Lab using Python	2.83	3	2.67	2.5	1.33	1.5
45	SEM V	16MCC131	Seminar	1.33	2	1.33	1.67	3	1.67
46	SEM VI	16MCC132	Major Project Work	1.8	2.4	1.8	2.2	2	2
			Average -PO -Mapping	2.09	2.18	1.95	1.9	1.76	1.5

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Serial No.	SEM	Subject Code	Subject Name	PO1	PO2	PO3	PO4	PO5	PO6
1	SEM I	16MCC101	Discrete Mathematics	1.495	0.42	0.23	0.35	0.175	1.19
2	SEM I	16MCC102	Computer Programming and Problem Solving	1.3006	1.4283	1.2839	1.1467	1.6039	1.73
3	SEM I	16MCC103	Elements Of Information Technology	1.86	0.73	0.65	1.845	0.39	1.63
4	SEM I	16MBC128	Managerial Economics and Financial Analysis	1.205	1.335	0.205	1.495	1.19	1.558
5	SEM I	16EGC101	Professional Communication in English	0.354	1.534	0.426	0.606	1.9	1.75
6	SEM I	16MCC104	Computer Programming Lab Using C	1.95	1.5	1.2	2.1	1.5	0.9
7	SEM I	16MCC105	Elements of Information Technology Lab	1.2	1.05	2.4	0.9	1.2	1.05
8	SEM I	16EGC102	Professional Communication Lab	0.82	0.82	0.82	1	2.46	0.82
9	SEM II	16MCC106	Object Oriented Programming(OOP)	0.485	0.485	0.325	1.31	1.335	1.19
10	SEM II	16MCC107	Computer Organization	0.455	1.49	0.36	1.36	1.22	1.22
11	SEM II	16MCC108	Software Engineering	0.625	0.74	0.845	1.57	0.685	1.72
12	SEM II	16MCC109	Data Structures Using C++	1.24	1.195	1.195	0.165	1.155	1.125
13	SEM II	16MCC110	Operations Research	0.925	0.99	0.51	0.395	0.66	0.33
14	SEM II	16MTC102	Probability and Statistics	0.882	0.504	1.51	0.552	0.57	1.294
15	SEM II	16MCC111	Object Oriented Programming Lab Using Java	1.8	1.95	2.25	1.8	2.25	2.1
16	SEM II	16MCC112	Data Structures Lab Using C++	1.8	2.4	1.95	1.65	1.35	0.9
17	SEM III	16MCC113	Database Management Systems	1.6	0.83	1.71	0.535	1.75	1.525
18	SEM III	16MCC114	Web Technologies	0.85	0.985	1.275	1.085	0.985	0.785
19	SEM III	16MCC115	Design and Analysis of Algorithms	1.648	0.612	0.216	0.432	0.432	1.288
20	SEM III	16MCC116	Operating Systems	0.555	0.3	0.29	0.41	0.33	0.255
21	SEM III	16MBC04 / 16CEC03 / 16MFE20/16	HVPE / Entrepreneurship	1.414	0.414	1.414	0.63	1.188	0.828
22	SEM III			0.435	0.675	0.48	0.525	0.985	0.87
23	SEM III	16MCC117	Database Management Systems Lab	1.8	2.4	2.4	2.1	1.65	1.5
24	SEM III	16MCC118	Web Technologies Lab	2.1	2.7	2.1	2.7	1.95	1.5
25	SEM III	16MCC119	Operating Systems Lab	2.55	1.35	1.2	1.35	1.5	1.2
26	SEM IV	16MCC120	Computer Networks	0.82	0.64	0.39	0.39	0.39	0.39
27	SEM IV	16MCC121	Data warehousing and Data Mining	0.9	0.9	0.9	1.66	0.7	0.655
28	SEM IV	16MCC122	Advanced Java Programming	0.9383	1.955	1.8439	1.8367	1.4239	0.5089
29	SEM IV	16MCE103	ANN	0.972	0.954	1.726	0.408	1.672	0.39
30	SEM IV	16MCE102	Software Testing	1.875	0.78	1.78	1.53	1.435	1.735
31	SEM IV	16MCE106	CLOUD COMPUTING	0.6867	0.9517	1.95	1.97	0.3283	0.4483
32	SEM IV	16MCE107	SOFTWARE PROJECT MANAGEMENT	0.835	1.835	1.7	1.565	1.765	1.75
33	SEM IV	16MCC123	Computer Networks Lab	1.2	1.65	2.25	1.2	1.2	0.9
34	SEM IV	16MCC124	Data warehousing and Data Mining Lab	2.25	2.25	1.95	1.05	1.35	1.2
35	SEM IV	16MCC125	Mini Projects	1.2	1.65	2.25	1.2	1.2	0.9
36	SEM V	16MCC126	Object Oriented System Development(OOSD)	1.725	1.07	1.695	1.925	1.725	0.89
37	SEM V	16MCC127	Machine Learning	0.51	1.235	1.455	0.355	0.355	0.235
38	SEM V	16MCC128	Cryptography & Network Security	1.675	1.485	1.075	1.95	0.95	1.925
39	SEM V	16MCE110	IOT	1.03	1.315	1.005	1.365	0.59	0.46
40	SEM V	16MCE111	BIA	1.525	0.76	0.5	1.595	0.63	0.565
41	SEM V	16MC E113	BIG DATA ANALYTICS	1.1278	1.2833	1.9611	1.2278	0.5167	0.4944
42	SEM V	16MCE114	E-COMMERCE	2	1.45	1.3	1.15	1.3	1
43	SEM V	16MCC129	Object Oriented System Development Lab	1.8	2.4	1.8	2.25	1.5	1.95
44	SEM V	16MCC130	Machine Learning Lab using Python	2.55	2.7	2.4	2.25	1.2	1.35
45	SEM V	16MCC131	Seminar	1.2	1.8	1.2	1.5	2.7	1.5
46	SEM VI	16MCC132	Major Project Work	1.62	2.16	1.62	1.98	1.8	1.8
			Average PO Attainment	1.3	1.31	1.31	1.27	1.2	1.12

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Actual	PO1	PO2	PO3	PO4	PO5	PO6
Student	2.16	1.954	2.134	2.152	1.56	1.908
Parent	2.41	2.346	1.883	1.58	1.534	1.73
Employer	2.297	2.297	1.583	1.667	1.958	1.875
Alumni	1.7	1.7	1.044	0.892	1.065	1.88
PO_INDIRECT	2.142	2.074	1.661	1.573	1.529	1.848
PO-Indirect Maximum						
Maximum	PO1	PO2	PO3	PO4	PO5	PO6
Student	3	2.75	3	3	2.2	2.667
Parent	2.857	2.6	2.833	2.333	2.286	2.5
Employer	2.8	2.8	1.8	1.6	1.75	3
Alumni	2.667	2.667	2	2	2.5	3
	2.831	2.704	2.408	2.233	2.184	2.792



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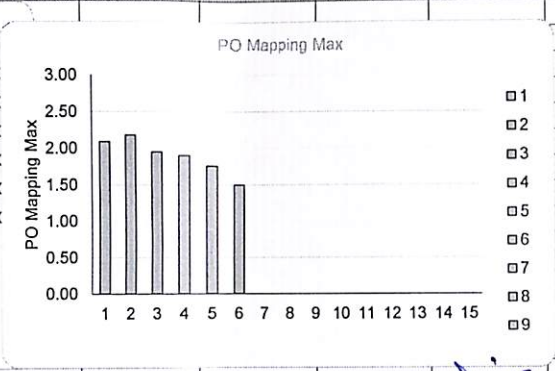
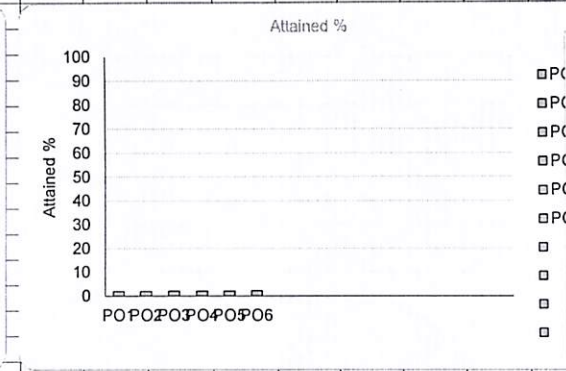
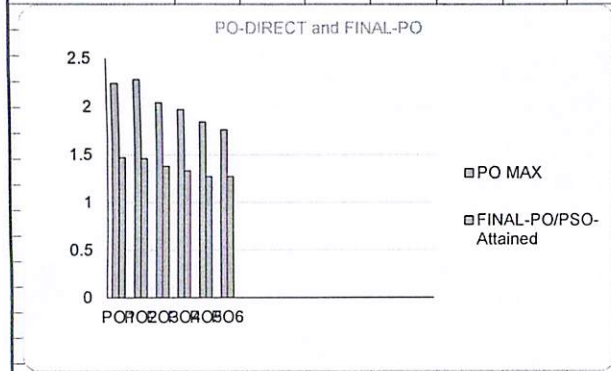
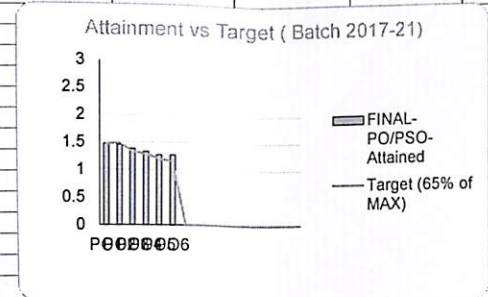
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	PO1	PO2	PO3	PO4	PO5	PO6
PO-DIRECT-Attained	1.3	1.31	1.31	1.27	1.2	1.12
PO-INDIRECT-Attain	2.14	2.07	1.66	1.57	1.53	1.85
FINAL-PO/PSO-Atta	1.47	1.46	1.38	1.33	1.27	1.27
PO Mapping Max	2.09	2.18	1.95	1.90	1.76	1.50
PO Indirect Max	2.83	2.70	2.41	2.23	2.18	2.79
PO MAX	2.24	2.28	2.04	1.97	1.84	1.76
0.65						
Target (65% of MAX)	1.46	1.49	1.33	1.29	1.2	1.15
Result	Attained	NOT	Attained	Attained	Attained	Attained
Attained %	1.96	1.92	2.03	2.02	2.07	2.16



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