



# CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

An Autonomous Institute | Affiliated to Osmania University  
Kokapet Village, Gandipet Mandal, Hyderabad, Telangana-500075, www.cb.it.ac.in

Approved by Recognized Research Centers Programs Accredited by Grade A++ in All India Ranking 151-200 Band ISO Certifications Quality Audit 9001 : 2015 Green Audit 14001 : 2015 Energy Audit 50001 : 2018

COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**45**  
years

Name of the Department: MCA

Academic Year: 2022-23(2023 Passed Out-R20) Batch 2021-2023

PG Program: MCA

	Target Fixed	Target Achieved	Observation(Attained/Not Attained)	Actions Taken		
				A1	A2	A3
PO1	1.87	1.87	Attained	--	--	--
PO2	1.85	1.94	Attained	--	--	--
PO3	1.82	1.85	Attained	--	--	--
PO4	1.79	1.57	Not Attained	In order to attain this PO, Technical Seminar is introduced as part of R23 Regulation	In order to attain this PO, Professional Communications Skills lab is revised to include Presentation Skills , Interview Skills, and Group discussion	--
PO5	1.79	1.8	Attained	--	--	--
PO6	1.86	1.5	Not Attained	In order to attain this PO, vast range of Professional Electives are offered in R23 Regulation	In order to attain this PO, students are advised to participate in various Coding Hackathons and enroll in MOOCS.	--

  
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**DEPARTMENT OF MCA**

**R20 CO PO ARTICULATION MATRIX 2021-2023 BATCH (2022-23 Passed Out Batch)**


Serial No.	SEM	Subject Code	Subject Name	PO1	PO2	PO3	PO4	PO5	PO6
1	SEM I	20MCC101	Computer Programming using 'C'	2.5	2.8	2.1		2	1
2	SEM I	20MCC102	Computer Organization and Architecture	2	2.6	2.3	2	1.6	2
3	SEM I	20MCC103	Software Engineering	1.6	2	1.6	1.6	1.8	1.8
4	SEM I	20MCC104	Mathematical Foundations for Computer Applications	2.7	2	1.5	1.5	2.7	1.7
5	SEM I	20MTC27	Probability & Statistics	3	2.4	1.6	1.6	1.8	1
6	SEM I	20MCC105	Computer Programming Lab using 'C'	2.5	2.8	2.1		1.6	1
7	SEM I	20MCC106	Python Programming Lab	2.83	2.67	2.83	2.17	3	1.83
8	SEM I	20EG101	Professional Communication in English Lab	1	1	1	1.2	3	1
9	SEM II	20MCC107	Data Structures and Algorithms	2.3	1.8	2.3		1.8	1
10	SEM II	20MCC108	Artificial Intelligence	2.4	2.6	2.8	1.8	2.8	2.6
11	SEM II	20MCC109	Object Oriented Programming using Java	2.17	2.5	2.5	1.67	2.83	2.5
12	SEM II	20MCC110	Database Management	1.67	1.83	1.67	1.5	1.83	1.83
13	SEM II	20MCE103	Business Intelligence & Analytics.	2	2.33	2.5	2.33	2.5	2
14	SEM II	20MCE104	Software Project Management	1.25	1.83	1.6	3	2	2.17
15	SEM II	20MCC111	Data Structures Lab using	1.5	2	1.8		2	1
16	SEM II	20MCC112	Object Oriented Programming Lab using Java	2	2.17	2.5	2	2.5	2.33
17	SEM II	20MCC113	Database Management Systems Lab	1.83	1.83	1.5	1.5	1.67	1.33
18	SEM III	20MCC114	Data Communications and Computer Networks	2.36	2.1	1.92	1.5	2.08	1.83
19	SEM III	20MCC115	Data Science and Machine Learning	3	2.5	2.5	2.5	2.25	1.5
20	SEM III	20MCC116	Operating Systems	1.5	2	2		2	1
21	SEM III	20MCC117	Web Technologies	1.7	1.5	2.7		1	1.5
22	SEM III	20MCE105	Cloud Computing	2	2.83	2.83	2	2.83	2
23	SEM III	20MCC118	Object Oriented System Development Lab	2.5	3	2.8	2.2	2.4	2.5
24	SEM III	20MCC119	Machine Learning Lab using Python	3	2.33	2.33	2.5	2.67	1.67
25	SEM III	20MCC120	Web Technologies Lab	1.83	2.33	2.33	~	1.4	1.5
26	SEM IV	20MCE109	Cyber Security	1.33	1.83	1.2	~	1	1.33
27	SEM IV	20MCE112	Deep Learning	3	2.6	2.4	2.6	2.4	1.6
28	SEM IV	20MCE115	Internet of Things	1.75	1.8	1	1	1.5	1
29	SEM IV	20MCE116	Natural Language Processing	2.5	2.33	2.5	2.5	3	2.67
30	SEM IV	20MCC121	Major Project Work	2.17	3	3	2.25	2.17	2.5
			<b>Average -PO -Mapping</b>	2.13	2.24	2.12	1.95	2.14	1.69

  
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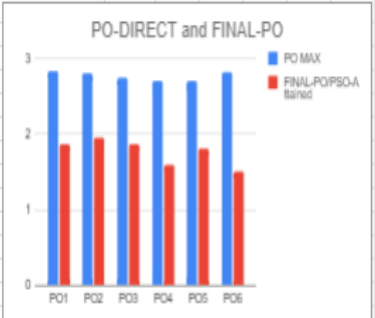
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**R20 CO PO ATTAINMENT 2021-2023 BATCH (2022-23 Passed Out Batch)**

Serial No.	SEM	Subject Code	Subject Name	PO1	PO2	PO3	PO4	PO5	PO6
1	SEM I	20MCC101	Computer Programming using 'C'	1.86	2.11	1.62	~	1.49	0.75
2	SEM I	20MCC102	Computer Organization and Architecture	1.80	2.03	1.75	0.96	1.31	0.72
3	SEM I	20MCC103	Software Engineering	1.49	1.80	1.43	1.43	1.61	1.63
4	SEM I	20MCC104	Mathematical Foundations for Computer Applications	1.85	1.40	0.90	1.00	1.69	1.06
5	SEM I	20MTC27	Probability & Statistics	2.62	2.08	1.44	1.34	1.54	0.87
6	SEM I	20MCC105	Computer Programming Lab using 'C'	2.50	2.83	2.17	~	1.67	1.00
7	SEM I	20MCC106	Python Programming Lab	2.83	2.67	2.83	2.17	3.00	1.83
8	SEM I	20EG101	Professional Communication in English Lab	1.00	1.00	1.00	1.20	3.00	1.00
9	SEM II	20MCC107	Data Structures and Algorithms	1.88	1.44	1.88	~	1.43	0.79
10	SEM II	20MCC108	Artificial Intelligence	1.93	2.39	1.93	1.66	2.55	2.35
11	SEM II	20MCC109	Object Oriented Programming using Java	1.75	1.94	1.90	1.26	2.29	1.98
12	SEM II	20MCC110	Database Management Systems	1.31	1.50	1.31	1.14	1.46	1.36
13	SEM II	20MCE103	Business Intelligence & Analytics.	1.63	1.78	1.94	1.87	2.05	1.50
14	SEM II	20MCE104	Software Project Management	0.97	1.40	1.26	2.28	1.57	1.65
15	SEM II	20MCC111	Data Structures Lab using C++	1.50	2.00	1.83	~	2.00	1.00
16	SEM II	20MCC112	Object Oriented Programming Lab using Java	2.00	2.17	2.50	2.00	2.50	2.33
17	SEM III	20MCC113	Database Management Systems Lab	1.83	1.83	1.50	1.50	1.67	1.33
18	SEM III	20MCC114	Data Communications and Computer Networks	1.74	1.56	1.41	1.22	1.43	1.27
19	SEM III	20MCC115	Data Science and Machine Learning	2.16	1.82	1.82	1.82	1.57	1.10
20	SEM III	20MCC116	Operating Systems	1.20	1.47	1.47	~	1.47	0.73
21	SEM III	20MCC117	Web Technologies	1.38	1.25	2.21	~	1.03	1.22
22	SEM III	20MCE105	Cloud Computing	1.60	2.23	2.23	1.73	2.26	1.58
23	SEM III	20MCC118	Object Oriented System Development Lab	2.50	3.00	2.83	2.20	2.40	2.50
24	SEM III	20MCC119	Machine Learning Lab using Python	2.90	2.23	2.27	2.40	2.57	1.60
25	SEM IV	20MCC120	Web Technologies Lab	1.83	2.33	2.33	~	1.40	1.50
26	SEM IV	20MCE109	Cyber Security	1.16	1.63	1.02	~	0.89	1.18
27	SEM IV	20MCE112	Deep Learning	1.20	1.30	1.50	1.20	1.50	1.40
28	SEM IV	20MCE115	Internet of Things	1.26	1.34	0.84	0.41	1.26	0.76
29	SEM IV	20MCE116	Natural Language Processing	2.00	1.84	1.99	1.96	2.43	2.11
30	SEM IV	20MCC121	Major Project Work	2.17	3.00	2.67	2.25	2.17	2.50
			<b>Average PO Attainment</b>	<b>1.80</b>	<b>1.92</b>	<b>1.80</b>	<b>1.60</b>	<b>1.85</b>	<b>1.43</b>

  
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	PO1	PO2	PO3	PO4	PO5	PO6												
PO-DIRECT-Attained	1.80	1.92	1.80	1.60	1.85	1.43												
PO-INDIRECT-Attained	2.14	2.07	2.09	1.57	1.65	1.85												
FINAL-PO-PSO-Attained	1.87	1.95	1.86	1.59	1.81	1.51												
PO Mapping Max	2.83	2.82	2.83	2.82	2.81	2.81												
PO Indirect Max	2.83	2.70	2.43	2.23	2.24	2.79												
PO MAX	2.83	2.8	2.75	2.7	2.7	2.81												
0.66																		
Target (66% of MAX)	1.87	1.85	1.82	1.79	1.79	1.86												
Result	Attained	Attained	Attained	NOT	Attained	NOT												
Attained %	66.08	69.64	67.64	58.89	67.04	53.74												



  
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