



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

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



Name of the Department: MCA

Academic Year: 2023-24(2024 Passed Out-R20) Batch 2022-2024

PG Program: MCA

| | Target Fixed | Target Achieved | Observation(Attained/Not Attained) | Actions Taken | | |
|-----|--------------|-----------------|------------------------------------|---------------|----|----|
| | | | | A1 | A2 | A3 |
| PO1 | 2.04 | 2.2 | Attained | -- | -- | -- |
| PO2 | 2.04 | 2.18 | Attained | -- | -- | -- |
| PO3 | 2.04 | 2.13 | Attained | -- | -- | -- |
| PO4 | 1.72 | 1.97 | Attained | -- | | |
| PO5 | 1.94 | 1.98 | Attained | -- | -- | -- |
| PO6 | 1.94 | 2.18 | Attained | -- | -- | -- |

[Signature]
HEAD OF DEPARTMENT
 Master of Computer Applications
 C.B.I.T., Hyderabad-500 075

DEPARTMENT OF MCA

R20 CO PO ARTICULATION MATRIX 2022-2024 BATCH (2023-24 Passed Out Batch)

| Serial No. | SEM | Subject Code | Subject Name | PO1 | PO2 | PO3 | PO4 | PO 5 | PO6 |
|------------|--------|--------------|--|-----|-----|-----|-----|------|-----|
| 1 | SEM I | 20MCC101 | Computer Programming using 'C' | 2.5 | 2.8 | 2.2 | 1 | 2 | 1 |
| 2 | SEM I | 20MCC102 | Computer Organization and Architecture | 1.7 | 2.7 | 2.3 | 1.3 | 1.5 | 1.2 |
| 3 | SEM I | 20MCC103 | Software Engineering | 1.6 | 2.1 | 1.7 | 1.6 | 1.8 | 1.7 |
| 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' | 2.6 | 3 | 2.2 | 1 | 1.6 | 1 |
| 7 | SEM I | 20MCC106 | Python Programming Lab | 2.8 | 2.8 | 3 | 2.2 | 3 | 2 |
| 8 | SEM I | 20EG101 | Professional Communication in English Lab | 1 | 1 | 1 | 1.2 | 3 | 1 |
| 9 | SEM II | 20MCC107 | Data Structures and Algorithms | 2.2 | 1.8 | 2.2 | 1.0 | 1.8 | 1.0 |
| 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 | 2.0 | 2.6 | 2.6 | 1.6 | 2.8 | 2.4 |
| 12 | SEM II | 20MCC110 | Database Management | 1.6 | 2.0 | 1.8 | 1.6 | 2.0 | 2.0 |
| 13 | SEM II | 20MCE103 | Business Intelligence & Analytics. | 1.4 | 2.4 | 2.4 | 2.4 | 2.4 | 1.4 |
| 14 | SEM II | 20MCE104 | Software Project Management | 1.2 | 2.0 | 1.6 | 1.4 | 1.8 | 2.0 |
| 15 | SEM II | 20MCC111 | Data Structures Lab using | 1.4 | 1.8 | 1.6 | 1.0 | 2.0 | 1.0 |
| 16 | SEM II | 20MCC112 | Object Oriented Programming Lab using Java | 1.8 | 2.2 | 2.4 | 2.2 | 2.6 | 2.4 |

| | | | | | | | | | |
|-----------------------------|---------|----------|---|-----|-----|-----|-----|-----|-----|
| 17 | SEM II | 20MCC113 | Database Management Systems Lab | 1.8 | 1.8 | 1.4 | 1.4 | 1.4 | 1.2 |
| 18 | SEM III | 20MCC114 | Data Communications and Computer Networks | 2.2 | 2.2 | 2.0 | 1.0 | 1.8 | 1.6 |
| 19 | SEM III | 20MCC115 | Data Science and Machine Learning | 2.8 | 2.4 | 2.4 | 2.2 | 2.2 | 1.5 |
| 20 | SEM III | 20MCC116 | Operating Systems | 1.8 | 2.1 | 2.1 | 2.2 | 2.0 | 1.1 |
| 21 | SEM III | 20MCC117 | Web Technologies | 1.6 | 1.4 | 2.6 | 1.0 | 1.0 | 1.6 |
| 22 | SEM III | 20MCE105 | Cloud Computing | 1.6 | 3.0 | 3.0 | 1.6 | 2.8 | 1.8 |
| 23 | SEM III | 20MCC118 | Object Oriented System Development Lab | 2.2 | 3.0 | 3.0 | 2.0 | 2.4 | 2.2 |
| 24 | SEM III | 20MCC119 | Machine Learning Lab using Python | 3.0 | 2.6 | 2.2 | 2.4 | 2.8 | 1.8 |
| 25 | SEM III | 20MCC120 | Web Technologies Lab | 1.8 | 2.6 | 2.2 | 1.0 | 1.2 | 1.4 |
| 26 | SEM IV | 20MCE109 | Cyber Security | 1.2 | 1.8 | 1.2 | 1.0 | 1.0 | 1.4 |
| 27 | SEM IV | 20MCE115 | Internet of Things | 1.6 | 1.8 | 1.0 | 1.0 | 1.4 | 1.0 |
| 28 | SEM IV | 20MCC121 | Major Project Work | 2.2 | 2.7 | 3.0 | 1.8 | 2.2 | 2.5 |
| Average -PO -Mapping | | | | 2.0 | 2.3 | 2.1 | 1.5 | 2.1 | 1.6 |

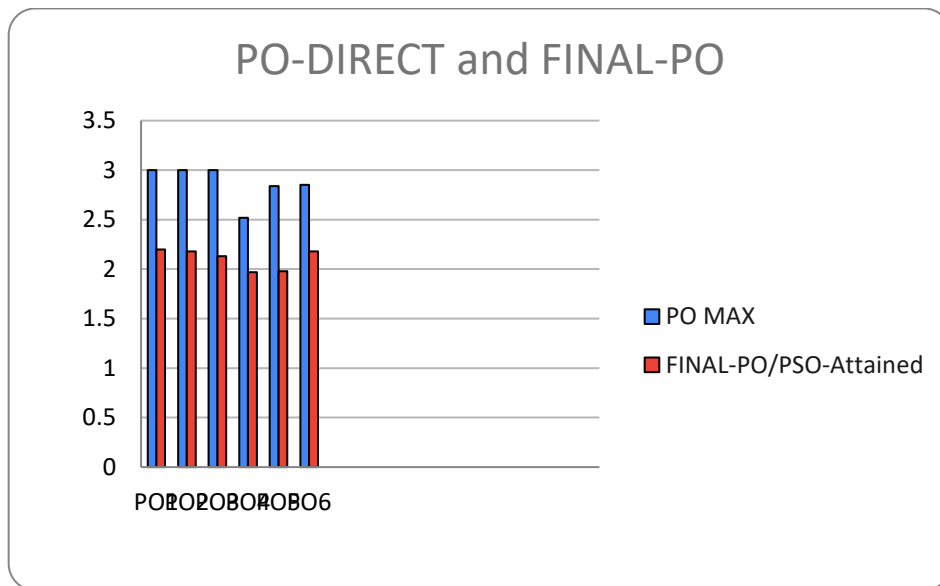
DEPARTMENT OF MCA

R20 CO PO ATTAINMENT 2022-2024 BATCH (2023-24 Passed Out Batch)

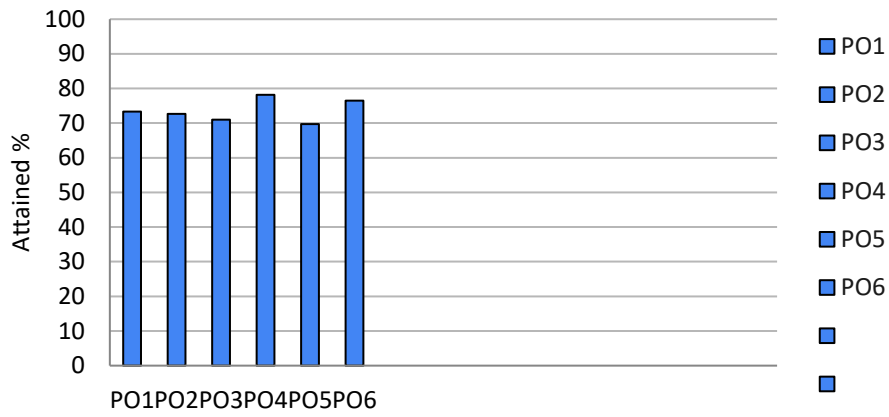
| S.No | SEM | Subject Code | Subject Name | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
|------|--------|--------------|--|-----|-----|-----|-----|-----|-----|
| 1. | SEM I | 20MCC101 | Computer Programming using 'C' | 2.1 | 2.4 | 2.0 | 1.9 | 1.7 | 2.0 |
| 2. | SEM I | 20MCC102 | Computer Organization and Architecture | 2.1 | 2.1 | 2.0 | 1.0 | 1.8 | 2.0 |
| 3. | SEM I | 20MCC103 | Software Engineering | 2.1 | 1.8 | 1.8 | 1.4 | 1.8 | 2.3 |
| 4. | SEM I | 20MCC104 | Mathematical Foundations for Computer Applications | 1.9 | 1.4 | 2.1 | 1.0 | 1.7 | 2.1 |
| 5. | SEM I | 20MTC27 | Probability & Statistics | 2.2 | 1.7 | 1.6 | 2.0 | 1.3 | 2.0 |
| 6. | SEM I | 20MCC105 | Computer Programming Lab using 'C' | 2.2 | 2.4 | 2.2 | 1.4 | 1.7 | 2.1 |
| 7. | SEM I | 20MCC106 | Python Programming Lab | 2.8 | 2.7 | 2.0 | 2.2 | 3.0 | 1.9 |
| 8. | SEM I | 20EG101 | Professional Communication in English Lab | 1.5 | 1.0 | 2.0 | 1.8 | 3.0 | 2.0 |
| 9. | SEM II | 20MCC107 | Data Structures and Algorithms | 2.0 | 1.6 | 2.0 | 1.9 | 1.6 | 1.9 |
| 10. | SEM II | 20MCC108 | Artificial Intelligence | 2.1 | 2.1 | 2.1 | 1.6 | 2.5 | 2.3 |
| 11. | SEM II | 20MCC109 | Object Oriented Programming using Java | 1.8 | 2.0 | 1.9 | 1.5 | 2.4 | 2.1 |
| 12. | SEM II | 20MCC110 | Database Management Systems | 1.9 | 1.5 | 2.0 | 1.0 | 2.0 | 1.8 |
| 13. | SEM II | 20MCE103 | Business Intelligence & Analytics. | 2.0 | 1.9 | 2.0 | 1.9 | 2.0 | 1.2 |
| 14. | SEM II | 20MCE104 | Software Project Management | 1.9 | 1.6 | 1.1 | 1.1 | 1.4 | 1.7 |

| | | | | | | | | | |
|-----------------------|---------|----------|--|-----|-----|-----|-----|-----|-----|
| 15. | SEM II | 20MCC111 | Data Structures Lab using C++ | 1.5 | 2.0 | 1.8 | 2.0 | 2.0 | 1.0 |
| 16. | SEM II | 20MCC112 | Object Oriented Programming Lab using Java | 2.0 | 2.2 | 2.0 | 1.8 | 2.5 | 2.3 |
| 17. | SEM III | 20MCC113 | Database Management Systems Lab | 2.0 | 2.0 | 1.3 | 2.0 | 1.3 | 2.0 |
| 18. | SEM III | 20MCC114 | Data Communications and Computer Networks | 2.0 | 2.0 | 1.7 | 2.0 | 1.5 | 2.0 |
| 19. | SEM III | 20MCC115 | Data Science and Machine Learning | 2.1 | 2.2 | 2.1 | 2.2 | 2.0 | 2.0 |
| 20. | SEM III | 20MCC116 | Operating Systems | 2.3 | 2.1 | 2.1 | 2.1 | 0.8 | 2.0 |
| 21. | SEM III | 20MCC117 | Web Technologies | 2.3 | 2.3 | 2.0 | 2.0 | 1.0 | 2.0 |
| 22. | SEM III | 20MCE105 | Cloud Computing | 2.3 | 2.1 | 2.1 | 2.2 | 1.1 | 2.0 |
| 23. | SEM III | 20MCC118 | Object Oriented System Development Lab | 2.0 | 2.2 | 2.0 | 2.0 | 2.2 | 2.0 |
| 24. | SEM III | 20MCC119 | Machine Learning Lab using Python | 2.0 | 2.2 | 2.3 | 2.0 | 2.6 | 2.0 |
| 25. | SEM IV | 20MCC120 | Web Technologies Lab | 2.0 | 2.0 | 2.0 | 2.0 | 1.2 | 2.0 |
| 26. | SEM IV | 20MCE109 | Cyber Security | 1.9 | 1.7 | 1.9 | 1.6 | 0.8 | 2.0 |
| 27. | SEM IV | 20MCE115 | Internet of Things | 2.0 | 1.7 | 2.0 | 1.5 | 1.1 | 2.6 |
| 28. | SEM IV | 20MCC121 | Major Project Work | 2.2 | 2.3 | 2.0 | 1.6 | 1.9 | 2.2 |
| Average PO Attainment | | | | 2.0 | 2.0 | 1.9 | 1.7 | 1.8 | 2.0 |

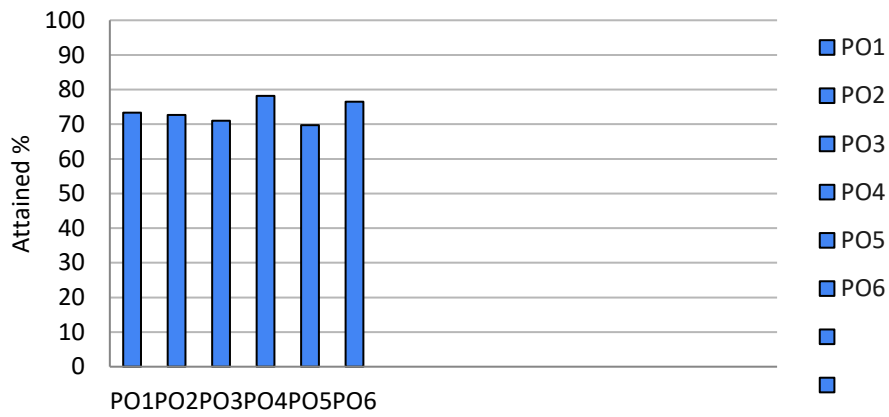
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
|------------------------------|----------|----------|----------|----------|----------|----------|
| PO-DIRECT-Attained | 2.04 | 1.97 | 1.94 | 1.74 | 1.78 | 1.98 |
| PO-INDIRECT-Attained | 2.85 | 3.00 | 2.90 | 2.90 | 2.80 | 2.95 |
| FINAL-PO/PSO-Attained | 2.2 | 2.18 | 2.13 | 1.97 | 1.98 | 2.18 |
| | | | | | | |
| PO Mapping Max | 3.00 | 3.00 | 3.00 | 2.40 | 2.80 | 2.81 |
| PO Indirect Max | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 |
| PO MAX | 3 | 3 | 3 | 2.52 | 2.84 | 2.85 |
| 0.68 | | | | | | |
| Target (68% of MAX) | 2.04 | 2.04 | 2.04 | 1.72 | 1.94 | 1.94 |
| Result | Attained | Attained | Attained | Attained | Attained | Attained |
| Attained % | 73.33 | 72.67 | 71 | 78.17 | 69.72 | 76.49 |



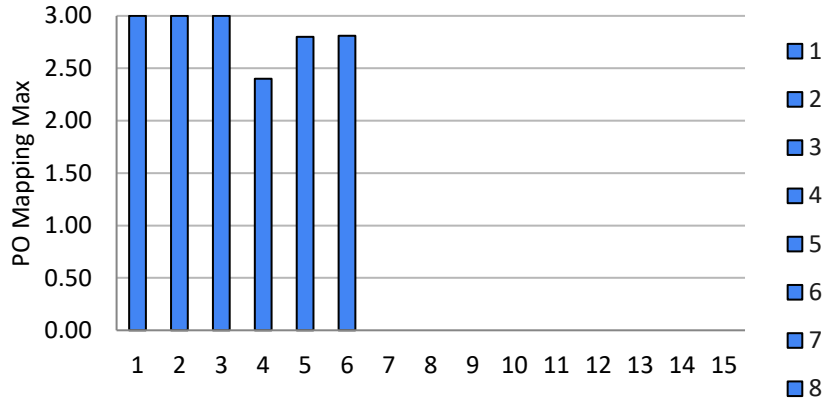
Attained %



Attained %



PO Mapping Max



Attainment vs Target (Batch 2022-24)

