



DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

SUMMARY REPORT OF FEEDBACK FOR CURRICULUM DEVELOPMENT AND ACTION TAKEN

The feedback collected for curriculum development in AI&DS programs includes 38 responses spanning various roles, including students (22 responses), parents (9 responses), alumni (4 responses), faculty (2 responses), and industry personnel (1 response). Key suggestions for course additions highlight the importance of practical, industry-relevant subjects. Among the most frequently proposed courses are Web Development (MERN/MEAN stack), Data Science using Python, and Automation and Robotics in Construction, with several suggesting these as core topics. Other popular themes include Ethical Hacking, Network Security, and Advanced Artificial Intelligence. Feedback consistently emphasizes practical applications of concepts, a balanced focus on technical and non-technical skills, and aligning courses to emerging industry needs. Suggestions also include curating subjects to enhance project-based learning and professional development. Overall, responses advocate for a modernized, application-oriented curriculum tailored to industry trends.

Action Taken:

1. The curriculum development of regulation R22 till IV Semesters has been materialized and included the more practical oriented courses, which was highlighted in the attached R22 Scheme.
2. In R22 curriculum (I-IV Sem), the following courses were added: Digital Fabrication Lab, Basic Electrical Engineering Lab, Linux and Latex Lab.


HEAD OF THE DEPARTMENT
Department of AI&DS,
CHAITANYA BHARATHI
INSTITUTE OF TECHNOLOGY,
Hyderabad-500075, Telangana, India



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)
Scheme of Instructions of I Semester of B.E. – Artificial Intelligence and Data Science
(Inline with AICTE Model Curriculum with effect from AY 2022-23)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

SEMESTER – I

| S. No | Course Code | Title of the Course | Scheme of Instruction | | | Scheme of Examination | | Credits | |
|------------------|-------------|--------------------------------------|-----------------------|----------|-----------|--------------------------|---------------|------------|-----------|
| | | | Hours per Week | | | Duration of SEE in Hours | Maximum Marks | | |
| | | | L | T | P/D | | CIE | | SEE |
| THEORY | | | | | | | | | |
| 1 | 22MTC01 | Linear Algebra & Calculus | 3 | 1 | 0 | 3 | 40 | 60 | 4 |
| 2 | 22PYC01 | Optics and Semiconductor Physics | 3 | 0 | 0 | 3 | 40 | 60 | 3 |
| 3 | 22CSC01 | Problem Solving and Programming | 2 | 1 | 0 | 3 | 40 | 60 | 3 |
| 4 | 22EGC01 | English | 2 | 0 | 0 | 3 | 40 | 60 | 2 |
| PRACTICAL | | | | | | | | | |
| 5 | 22PYC03 | Optics and Semiconductor Physics Lab | 0 | 0 | 3 | 3 | 50 | 50 | 1.5 |
| 6 | 22EGC02 | English lab | 0 | 0 | 2 | 3 | 50 | 50 | 1 |
| 7 | 22CSC02 | Problem Solving and Programming Lab | 0 | 0 | 3 | 3 | 50 | 50 | 1.5 |
| 8 | 22MEC01 | CAD AND DRAFTING | 0 | 1 | 3 | 3 | 50 | 50 | 2.5 |
| 9 | 22MEC38 | Digital Fabrication Lab | 0 | 0 | 3 | 3 | 50 | 50 | 1.5 |
| TOTAL | | | 10 | 3 | 14 | 27 | 410 | 490 | 20 |

L: Lecture

T: Tutorial

D: Drawing

P: Practical

CIE - Continuous Internal Evaluation

SEE - Semester End Examination



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)
Scheme of Instructions of II Semester of B.E. – Artificial Intelligence and Data Science
(Inline with AICTE Model Curriculum with effect from AY 2022-23)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

SEMESTER –II

| S. No | Course Code | Title of the Course | Scheme of Instruction | | | Scheme of Examination | | Credits | |
|------------------|-------------|--|-----------------------|----------|-----------|--------------------------|---------------|------------|-----------|
| | | | Hours per Week | | | Duration of SEE in Hours | Maximum Marks | | |
| | | | L | T | P/D | | CIE | | SEE |
| THEORY | | | | | | | | | |
| 1 | 22MTC04 | Differential Equations & Numerical Methods | 3 | 1 | 0 | 3 | 40 | 60 | 4 |
| 2 | 22CYC01 | Chemistry | 3 | 0 | 0 | 3 | 40 | 60 | 3 |
| 3 | 22EEC01 | Basic Electrical Engineering | 2 | 1 | 0 | 3 | 40 | 60 | 3 |
| 4 | 22CSC03 | Object Oriented Programming | 2 | 1 | 0 | 3 | 40 | 60 | 3 |
| PRACTICAL | | | | | | | | | |
| 5 | 22CYC02 | Chemistry Lab | 0 | 0 | 3 | 3 | 50 | 50 | 1.5 |
| 6 | 22MBC02 | Community Engagement | 0 | 0 | 3 | | 50 | | 1.5 |
| 7 | 22CSC04 | Object-Oriented Programming Lab | 0 | 0 | 2 | 3 | 50 | 50 | 1 |
| 8 | 22MEC37 | Robotics & Drones Lab | 0 | 2 | 2 | 3 | 100 | | 3 |
| 9 | 22EEC02 | Basic Electrical Engineering Lab | 0 | 0 | 2 | 3 | 50 | 50 | 1 |
| TOTAL | | | 10 | 5 | 12 | | 460 | 390 | 21 |

L: Lecture

T: Tutorial

D: Drawing

P: Practical

CIE - Continuous Internal Evaluation

SEE - Semester End Examination



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)
(Inline with AICTE Model Curriculum with effect from AY 2023-24)

B.E. (ARTIFICIAL INTELLIGENCE AND DATA SCIENCE)

SEMESTER – III

| S.N O | Course Code | Title of the Course | Scheme of Instruction | | Scheme of Examination | | | Credits |
|---------------------------------|----------------|--|--------------------------|----------|--------------------------------|------------------|------------|-----------|
| | | | Hours per Week | | Duration of SEE in Hours | Maximum Marks | | |
| | | | L/T | P/ D | | CI E | SEE | |
| THEORY | | | | | | | | |
| 1. | 22MTC07 | Mathematical and Statistical Foundations | 3 | - | 3 | 40 | 60 | 3 |
| 2. | 22CSC15 | Operating Systems | 3 | - | 3 | 40 | 60 | 3 |
| 3. | 22CSC11 | Database Management Systems | 3 | - | 3 | 40 | 60 | 3 |
| 4. | 22ITC02 | Java Programming | 3 | - | 3 | 40 | 60 | 3 |
| 5. | 22ITC01 | Digital Logic and Computer Architecture | 3 | - | 3 | 40 | 60 | 3 |
| 6. | 22CSC05 | Data Structures | 3 | - | 3 | 40 | 60 | 3 |
| 7. | 22EGM01 | Indian Constitution and Fundamental Principles | 2 | - | 2 | - | 50 | NC |
| PRACTICALS | | | | | | | | |
| 8. | 22CSC33 | Database Management Systems Lab | - | 2 | 3 | 50 | 50 | 1 |
| 9. | 22ITC03 | Java Programming Lab | - | 2 | 3 | 50 | 50 | 1 |
| 10. | 22CSC31 | Data Structures Lab | - | 2 | 3 | 50 | 50 | 1 |
| 11. | 22ADI01 | MOOCs/Training/Internship | 3-4 Weeks/ 90 Hours | | - | 50 | - | 2 |
| TOTAL | | | 20 | 6 | 29 | 390 | 500 | 23 |
| Clock Hours Per Week: 26 | | | | | | | | |

L: Lecture T: Tutorial
CIE – Continuous Internal Evaluation

D: Drawing P: Practical
SEE - Semester End Examination



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)
(Inline with AICTE Model Curriculum with effect from AY 2023-24)

B.E. (ARTIFICIAL INTELLIGENCE AND DATA SCIENCE)

SEMESTER – IV

| NO | Course Code | Title of the Course | Scheme of Instruction | | Scheme of Examination | | | Credits |
|---------------------------------|-------------|--|-----------------------|----------|--------------------------|---------------|------------|-----------|
| | | | Hours per Week | | Duration of SEE in Hours | Maximum Marks | | |
| | | | L/T | P/D | | CIE | SEE | |
| THEORY | | | | | | | | |
| 1. | 22MTC16 | Stochastic Process and Queueing Theory | 3 | - | 3 | 40 | 60 | 3 |
| 2. | 22ECC39 | Systems and Signal Processing | 3 | - | 3 | 40 | 60 | 3 |
| 3. | 22CSC14 | Design and Analysis of Algorithms | 3 | - | 3 | 40 | 60 | 3 |
| 4. | 22ADC01 | Fundamentals of Machine Learning | 3 | - | 3 | 40 | 60 | 3 |
| 5. | | Professional Elective – I | 3 | - | 3 | 40 | 60 | 3 |
| 6. | 22MBC01 | Engineering Economics and Accountancy | 3 | - | 3 | 40 | 60 | 3 |
| 7. | 22CEM01 | Environmental Science | 2 | - | 2 | - | 50 | NC |
| PRACTICAL | | | | | | | | |
| 8. | 22MTC17 | Stochastic Process and Queueing Theory Lab | - | 2 | 3 | 50 | 50 | 1 |
| 9. | 22CSC34 | Design and Analysis of Algorithms Lab | - | 2 | 3 | 50 | 50 | 1 |
| 10. | 22ADC02 | Machine Learning Lab | - | 2 | 3 | 50 | 50 | 1 |
| 11. | 22ADC04 | Linux and Latex Lab | - | 2 | 3 | 50 | 50 | 1 |
| | | | 20 | 8 | 32 | 440 | 550 | 22 |
| Clock Hours Per Week: 28 | | | | | | | | |

L: Lecture T: Tutorial
CIE – Continuous Internal Evaluation

D: Drawing P: Practical
SEE - Semester End Examination

| | | | | | |
|---------------------------------|------------------------------------|----------------------------|--|---|--|
| Professional Elective #1 | Digital Image Processing (22ITE02) | Web Technologies (22ITC17) | Mobile Application Development (22ITE04) | Data Analysis and Visualization (22ADE01) | Data Warehousing and Data Mining (22ADE02) |
|---------------------------------|------------------------------------|----------------------------|--|---|--|