



# EXCEL ENGINEERING COLLEGE

(Autonomous)

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai  
NBA (AERO,CSE, MECH,ECE), NAAC with "A+" and Recognised by UGC (2f &12B)

KOMARAPALAYAM - 637303

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

ACADEMIC YEAR 2022 - 23

**1.1.1 Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution:**

**Classification / Mapping of Course with their societal needs**

Course code and name	Local needs	Regional Needs	National Needs	Global Needs
<b>B.TECH AI&amp;DS Regulation 2020</b>				
20MA203 -Mathematics-I For Computing Sciences	✓		✓	✓
20CS101-Computer Hardware and Networking		✓	✓	✓
20PH101-Physics for Computing Sciences	✓		✓	✓
20ENE01-Communicative English	✓			
20CS102-Problem Solving using Python		✓	✓	✓
20CS103Computer Practices Laboratory		✓	✓	✓
20MC101-Induction Programme	✓		✓	✓
20MA203-Mathematics-II For Computing Sciences	✓		✓	✓
20AI101-Programming and Data Structures		✓	✓	✓
20ENE02-Advanced Communicative English	✓		✓	✓
20CH201-Chemistry for Computing Sciences	✓		✓	✓
20ME203-Engineering Graphics	✓		✓	✓
20AI202-Programming and Data Structures Laboratory		✓	✓	✓
20MC202-Interpersonal Skills	✓		✓	✓
20MA303-Discrete Mathematics and Graph Theory		✓	✓	✓
20AI301-Foundation of Artificial Intelligence		✓	✓	✓
20EC306-Digital Logics and Microprocessor		✓	✓	✓
20AI302-Operating Systems		✓	✓	✓

20AI303-Database Management Systems	✓	✓	✓	✓
20AI304-Intelligent Systems Laboratory	✓	✓	✓	✓
20MC301-Environmental Science	✓		✓	✓
20MA404-Statistical Methods for Data Analysis	✓		✓	✓
20AI401-Data warehousing and Data Mining		✓	✓	✓
20AI402-Concepts in Data Science		✓	✓	✓
20AI403-Formal Languages and Automata Theory		✓	✓	✓
20AI404-Object Oriented Programming		✓	✓	✓
20AI405-Data mining Tools Laboratory	✓	✓	✓	✓
20AI406-R Programming Laboratory			✓	✓
20AI407-Object Oriented Programming Laboratory	✓	✓	✓	✓
20MC401-Soft Skills	✓	✓	✓	✓
20AI501-Data Analytics	✓	✓	✓	✓
20AI502-Machine learning	✓	✓	✓	✓
20AI503-Data Communication and Computer Networks	✓	✓	✓	✓
20AI504-Object Oriented Analysis and Design	✓	✓		
20AI505-Machine Learning Laboratory				✓
20AI506-Data Analytics Laboratory				✓
20AI507-Data Communication and Computer Networks Laboratory	✓	✓	✓	✓
20AI601-Professional Ethics and Human Values	✓	✓	✓	✓
20AI602-Data Visualization	✓	✓	✓	✓
20AI603-IoT Fundamentals and Architecture	✓	✓	✓	✓
20AI604-Cloud Computing Services	✓	✓	✓	✓

20AIO01 - Game Programming	✓	✓	✓	✓
20AIO02-CISCO- Routing and Switching	✓	✓	✓	✓
20AIO03-Foundations of Artificial Intelligence			✓	✓
20AIO04-Content Based Image and Video Retrieval	✓	✓	✓	✓
20AIO05-Mobile Computing	✓	✓	✓	✓
20AIO06-Human Computer Interaction		✓	✓	✓
20AIO07-Database management System and Administration		✓	✓	✓
20AIO08-Advanced Java Programming		✓	✓	✓
20AIO09-Soft Computing			✓	✓
20AIO10-Data Science for Engineers	✓	✓	✓	✓
20AIE01-Intelligent Information Retrieval	✓		✓	✓
20AIE02-Advanced Artificial Intelligence Systems	✓	✓	✓	✓
20AIE03-Neural Networks	✓		✓	✓
20AIE04-Robotic Process Automation	✓	✓	✓	✓
20AIE05-Natural Language Processing		✓	✓	✓
20AIE06-Augmented Reality & Virtual Reality	✓	✓	✓	✓
20AIE07-Pattern Recognition	✓	✓	✓	✓
20AIE08-Statistical Decision Making		✓	✓	✓
20AIE09-Computer Vision		✓	✓	✓
20AIE10-Geometric Modelling			✓	✓
20AIE21-Cyber Law and Ethics	✓		✓	✓

20AIE22-Cyber Forensics		✓		
20AIE23-Ethical Hacking Fundamentals	✓	✓	✓	✓
20AIE24-Secure Cloud Computing	✓	✓	✓	✓
20AIE25-Information Security	✓	✓	✓	✓
20AIE26-Quantum Cryptography		✓	✓	✓
20AIE27-Blockchain and Cryptocurrency Technologies	✓	✓	✓	✓
20AIE28-Cyber Crime and Computer Ethics	✓	✓	✓	✓
20AIE29-Mobile Application Security	✓		✓	✓
20AIE30-Intrusion Detection and Prevention		✓	✓	✓

SIGN	Prepared by	Reviewed by	Approved By
NAME			

