Feedback for Curriculum Development, B.E (AI&DS)

Dear Stakeholder.

Greetings from CBIT!!

Our department of AI& Data Science at CBIT is dedicated to teaching and continues to give the best educational experience possible to its students. We are pleased to inform you that the department is now offering UG and PG Programs in Artificial Intelligence & Data Science. The B.E. program was started in the academic year 2020-21 and the regulation R-20 was successfully rolled out. The department is currently engaged in further enhancement of its B.E. (AI&DS) curriculum (R-22, V to VIII semesters) to cater to the needs of latest technological developments.

The purpose of the questionnaire is to solicit, in a completely confidential manner, your opinion in effectively designing the curriculum for the B.E. (AI&DS) program. Please suggest any courses/topics for inclusion in order to enrich the curriculum to cater to industrial requirements across the globe. You can check the scheme and syllabus of B.E. (AI&DS) using the links given below:

R-20 Regulation (I to VIII semesters)

https://cbit.ac.in/wp-content/uploads/2019/04/AIDS-R20-I-and-II-Semesters-Syllabus-2020-21.pdf

https://www.cbit.ac.in/wp-content/uploads/2023/03/BE-AIDS-R-20-III-IV-SemScheme-and-Syllabus-21-03-23.pdf

https://www.cbit.ac.in/wp-content/uploads/2021/09/BE-AIDS-R-20-V-VI-Sem-Syllabus_compressed.pdf

https://www.cbit.ac.in/wp-content/uploads/2021/09/BE-AIDS-R-20-VII-VII Request edit access
Syllabus compressed.pdf

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R-22 Regulation (I to IV semesters):	
https://www.cbit.ac.in/wp-content/uploads/2024/01/UG-R-22-AIDS-SYLL/BOOK.pdf . We appreciate you for sparing your valuable time to give your	
R-22 (Regulation (V to VIII Semesters) Proposed Scheme: https://drive.google.com/file/d/1_iRoAp7JCKz8lInZEgbtBSAjedio-p/view	?usp=sharing
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Identify your role(s) - Choose whichever are applicable *	
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core, elective,		
Your answer		
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Course#4 - Related specific topics and text books or any other
resources (also please mention whether the course to be included as
core/elective)

Your answer

Course#5 - Related specific topics and text books or any other resources (also please mention whether the course to be included as core/elective)

Your answer

Any other Suggestions / Feedback *

Your answer

Send me a copy of my responses.

Submit

Page 1 of 1

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Feedback for Curriculum Development, B.E (AI&DS)

38 responses

Publish analytics

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S.Neha Reddy
Neelima Reddy
Alla Bindhu Sree Reddy
AKASH GUNDU
KALYAN KUMAR
Sai Sathvik Vadari
Gayathri Pullakhandam
Meghana
Ravi Kumar
Madhuri
MOHD AQUIB
Mohd Emaduddin
Sasi Vakul Rithwik
R Sarath Babu
Nitya Narla
Valleboina Shiva Prasad
MOHD ABDUL RAHMAN
Nazia Tabassum
Gayathri g
Rahul Vanukuri Head of the Department Department of AI & DS, CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY HYDERABAD-500 075, T.S.

Your Name

38 responses

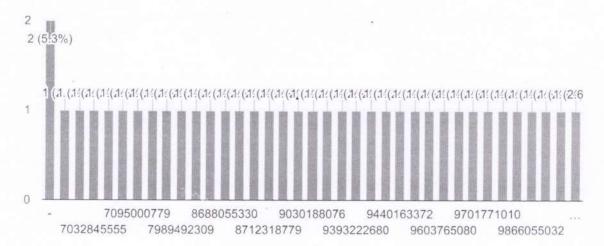
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Ateeta Hassan Pavan sai vamsi M varun reddy G. Sindhu Madhuri G. Manoj Kumar Rani Narla Raju Chippagiri Sumanth Chityala Sathwik Bandaru Sai Vamsee Eswar Reddy Sadhvik Reddy Vutkur Supraja Deviprasanna G Sujatha Saikumar Ellendula Identify your role(s) - Choose whichever are applicable □ Copy 38 responses Employer Industry personnel Parent Student 57.9% 10.5% Faculty Alumni- Student

Read of the Department
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38 responses



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Email Id

38 responses

gasuhasini25@gmail.com ugs20c158_aid.keerthi@cbit.org.in nehareddysingu@gmail.com neelimareddy2080@gmail.com allabindhusreereddy@gmail.com akash536g@gmail.com kalyankumargundu7@gmail.com vadari.sathvik@gmail.com gayathripullakhandam@gmail.com munagameghana28@gmail.com ravikumarpullakhandam88@gmail.com Madhurirao.narra@gmail.com mohdaquib842@gmail.com mohammademaduddin064@gmail.com rithwiksekharamanthri@gmail.com sharath.rakki@gmail.com miinitya@gmail.com vshivaprasad149@gmail.com marahman4002@gmail.com nazia.nmk@gmail.com Gayathriprasad510@gmail.com

rahulvankuri7@gmail.com

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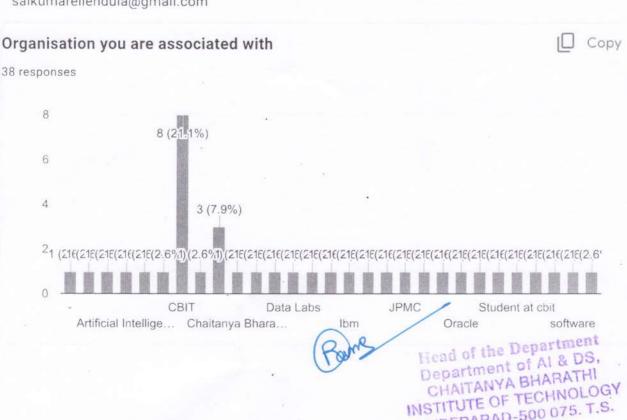
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Job Role ∟ Сору 38 responses 15 12 (31.6%) 10 3 (7.9%) Analyst Manager Student at C... Project Intern Software eng... Associate ma... Intern Teacher sy...

Rouns

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Course#1 - Related specific topics and text books or any other resources (also please mention whether the course to be included as core/elective)

38 responses

Data Mining

Robotics and Augmented Reality

nano technology engineering

mental health education

Web Development (MERN/MEAN stack) - core

Generative AI as core subject

NA

Computer Vision/Image Processing - Core

Image Processing

Image processesing

Digital Image Processing

More detailed courses on Artificial intelligence

Machine Learning Engineering for Production, ML Modelling Pipelines, MLOps, LLMOps, Deployment of various ML and Deep learning models (Core)

Evolution of Generative AI, General Adversarial Networks (GANs), Transformer architectures.

Machine Learning Foundations (Core)

Chatbots

TEXT BOOKS:

Rashid Khan, Anik Das, Build Better Chatbots: A Complete Guide to Getting Started with Chatbots, Apress)

Data analysis - elective

Cyber security as elective

QUANTUM COMPUTING (QISKIT) ,CLOUD COMPUTING @CORE

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QUANTUM COMPUTING explained Book by David McMahon

MICROSOFT AZURE, AWS(AMAZON WORK SERVICES) FOR CLOUD COMPUTING

Data Analytics: Data Analytics Made Accessible by Dr. Anil Maheshwari (core)

Analyzing a given problem statement and coming up with multiple solutions. Realmtime problems . -Elective

Data mining core

Practical Applications of Artificial Intelligence as elective

Database management system - Fundamentals of Database Management Systems By Mark Gillenson Text book can be added

Tableau or power bi as an elective

Large Language Models (Core)

devops(elective)

CRT - mandatory

Cloud based technologies-lab

Generative AI - Elective

Natural Langue Processing

Image processing

GenerativeAI (Google cloud course) - elective

Image Processing

Image processing

Computer Networks lab

Data science with python or Scala

looks good

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Course#2 - Related specific topics and text books or any other resources (also please mention whether the course to be included as core/elective)

38 responses

NA

Data Engineering

Project Monitoring and Control

sports engineering

naval architecture

Data Science using Python - core

Design Thinking - Elective

Visual Programming

Visual programming

Information Security

None

Generative AI, LLMs, Popular open-source LLMs like LangChain, Llama etc., Applications of LLMs (Core)

Prompt Engineering, Developing applications using ChatGPT API etc.

Reinforcement Learning (Core)

Authentication Techniques

TEXT BOOKS:

- 1. Protocols for Authentication and Key Establishment, Colin Boyd and Anish Mathuria, springer, 2021
- 2. Guide to Biometrics, Ruud M.Bolle, Sharath Pankanti, Nalini K. Ratha, Andrew W. Senior, Jonathan H. Connell, Springer 2009.
- 3. Digital Image Processing using MATLAB, Rafael C. Gonzalez, Richard Eugene Woods, 2nd Edition, Tata McGraw-Hill Education 2010.

PYTHON FLASKS, PYTORCH(ML), POWER BI(DV) @CORE

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https://www.amazon.in/Machine-Learning-PyTorch-Scikit-Learn-learning/dp/1801819319 Python Programming(core) Personality development-Emotional intelligence-/ active listening/ stress & time management elective Web data management core Practical Applications of Data science as elective Operating systems - The Design of the Unix Operating System by Maurice Bach textbook can be added None Generative AI (Core) generative ai(elective) Prompt Engineering - Core Imagine processing Natural language processing Software Technologies (Few topics like github, APIs, software methodologies etc.) core Block chain Natural language processing Data Mining Data mining looks good

> Head of the Department Department of AI & DS, CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY HYDERABAD-500 075, T.S.

please mention whether the course to be included as core/elective) 38 responses NA None Automation and Robotics in Construction Data Mining green technologist ceramic engineering Reactjs + Springboot related projects (elective) Organizational Behaviour - Elective Natural language Processing Linux and unix programming Al Ethics, Identifying Bias in Al, Al Fairness and Inclusiveness, Human-centered Al design (Elective) Fundamentals of Game Development Natural Language Processing (Core) **EDGE ANALYTICS** TEXT BOOK: 1. Hands-On Edge Analytics with Azure IoT: Design and develop IoT applications with edge analytical solutions including Azure IoT Edge by Colin Dow PROMPT ENGINEERING, ABOUT LLMS (LARGE LANGUAGE MODELS LIKE METAS LAMA 1.7 B) @CORE RESOURCES: LLM Prompt Engineering For Developers: The Art and Science of Unlocking LLMs' True Potential https://amzn.eu/d/5E7d8J6 Head of the Department Department of AI & DS,

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Course#3 - Related specific topics and text books or any other resources (also

Statistical Methods for Al and DS(core) Frontiers of electronic commerce mobile commerce Ravi kolkati core Practical Applications of Management as elective Explainable artificial intelligence course can be included as core Microservices (Electives) large language models(elective) Large Language Models (LLM) Computer Vision Computer vision Computer vision- elective Natural learning processing Compiler design BLOCKCHAIN cyber security looks good

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Department of AI & DS,
Dep

Course#4 - Related specific topics and text books or any other resources (also please mention whether the course to be included as core/elective)

38 responses

None
NA .
Network Security
Ethical Hacking with Data-driven Construction
Naval architecture
Advanced Artificial intelligence- core
information Security
Mobile computing
Full Stack Development with Java, JSP and Servlets, Spring framework, Spring boot REST APIs etc. (Elective)
None
SOCIAL MEDIA MINING TEXT BOOKS:
1. Mining the Social WebData Mining Face book, Twitter, LinkedIn, Google+, GitHub, and More By Matthew A., 2nd Edition, Russell Publisher: O'Reilly Media.
2. Social Media Mining, An Introduction By Reza Zafarani, Mohammad Ali Abbasi, Huan Liu.
NET C# , RUST PROGRAMMING , NLP (NATURAL LANGUAGE PROCESSING), DL(DEEP LEARNING) THROUGH PYTHON (SICKIT MODULE)
@CORE .
https://www.amazon.in/Machine-Learning-PyTorch-Scikit-Learn-learning/dp/1801819319
.Net Programming Through C# for CM.E. Second Year, IV Semester https://www.falconpublishers.com/product/net-programming-through-c-for-cm-e-second-year-
iv-semester/
The Rust Programming Language by Steve Klabnik and Carol Nicholas Rad of the Department Al & DS,
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Data Analysis and Visualization(core)

Total order multicast fault tolerance distributed systems core

Practical Applications of Data Analytics as elective

DevOPS (Core)

augumented reality(elective)

Statistics and Probability -Core

Cyber Security

Explainable AI

Virtual Reality

Compiler design

Personality development

security techniques

looks good

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Course#5 - Related specific topics and text books or any other resources (also please mention whether the course to be included as core/elective)

38 responses

NA .	
None	
Ethical Hacking	
Sustainable Infrastructure Development	
Rubber and plastic technology engineering	
Aws cloud / azure cloud and its usage in development -	(elective)
Mobile Computing	
Information security	
Competitive Programming and Advanced Data Structure	s and Algorithms (Elective)
None	
GRAPH ANALYTICS TEXT BOOKS: David A. Bader, Massive Graph Analytics, CRC Press	
SWIFT BY APPLE	
@ELECTIVE	
Robotic Process Automation Design and Development(E	lective)
Blockchain imran Bashir mastering blockchain elective	
Practical Applications of Data science as elective	
Kubernetes (Elective)	
robotics(elective)	Rome
Cloud Integrated Big Data	Head of the Department Department of Al & DS.

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY HYDERABAD-500 075. T.S. Computer design

Augmented reality

Personality development

Generative AI

Robotics

blockchain

looks good

Rome

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Any other Suggestions / Feedback 38 responses NA None Nothing Ensure a practical application of concepts, curriculum adaptable to evolving industry requirements, chances for industry collaboration and internships, Maintain a balanced coreelective mix. Ensure a practical application of concepts, Curriculum adaptable to evolving industry requirements, Chances for industry collaboration and internships, Maintain a balanced coreelective mix, Career guidance teaching the students not only technical topics but also general topics can be more efficient everything is good The subjects should be curated to focus more on practical knowledge. In cloud computing please include deployment and pipelines. Kubernetes and Docker should be taught. Industry standard tools should be taught how to be used. Many people are unable to work in Linux environment. Tool-based learning is really beneficial in placements. The teachers are only doing textbook teaching but practical knowledge is not reached to the students. Some of the UNIX /LINUX pratical lab into the curriculum

Nothing

The lab should also be conducted for elective subjects to get Hands-on practice. Model deployment should be included in ML, DL Lab course Thank you!

N/A

PLEASE KEEP THE SYLLABUS RELEVANT TO UPCOMING FUTURE NOT TODAYS

For AI data visualization is equally important... if possible can be included as an elective partment
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None all are good
Everything is perfect
None
Incorporating current world subjects into the curriculum is crucial for providing students with relevant and up-to-date knowledge.
none
Though proper attention should be laid on Buzz words mentioned above, it is equally important to focus and strengthen the basics in the Mathematics involved behind, basics of AI & ML
Non
None
No .
Having one subject on Reporting/Visualization Tool would help in covering end to end

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Bors

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Head of the Department of Al & D