

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-VIII-Syllabus_compressed.pdf  Request edit access



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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-SYLLABUS-BOOK.pdf> . We appreciate you for sparing your valuable time to give your feedback.

R-22 (Regulation (V to VIII Semesters) Proposed Scheme:

https://drive.google.com/file/d/1_iR--oAp7JCKz8lInZEgbtBSAjedio-p/view?usp=sharing

sheena_aids@cbit.ac.in Switch account



* Indicates required question

Email *

Record sheena_aids@cbit.ac.in as the email to be included with my response

Your Name *

Your answer

Identify your role(s) - Choose whichever are applicable *

Choose

Contact Number *

Your answer

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Email Id *

Your answer

Organisation you are associated with *

Your answer

Job Role *

Your answer

Course#1 - 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#2 - 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#3 - Related specific topics and text books or any other resources (also please mention whether the course to be included as 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

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38 responses

Publish analytics


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Your Name

38 responses

G A Suhasini

Keerthi G A

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 Naria

Valleboina Shiva Prasad

MOHD ABDUL RAHMAN

Nazia Tabassum

Gayathri g

Rahul Vanukuri



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Afeeta 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

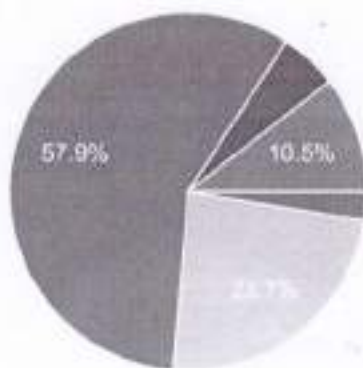
Sujatha

Saikumar Ellendula


Identify your role(s) - Choose whichever are applicable

 Copy

38 responses



- Employer
- Industry personnel
- Parent
- Student
- Faculty
- Alumni- Student



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Copy

38 responses




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Email Id

38 responses

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sahitheee25@gmail.com

saikumarellendula@gmail.com

Organisation you are associated with

 Copy

38 responses



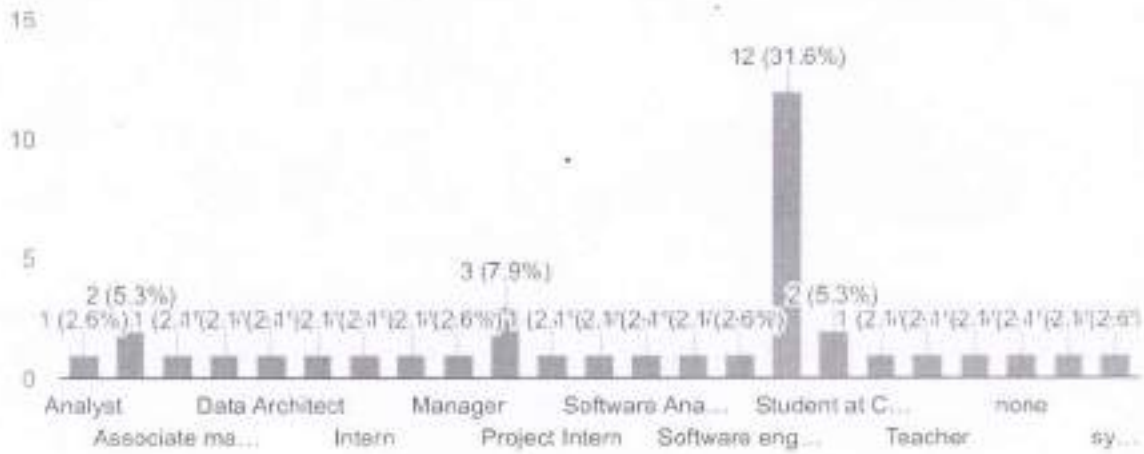
Rames

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Job Role

Copy

38 responses



Rame

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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)

18 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 processsing

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. Realtime 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

Image 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



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Course#3 - 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

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

AI Ethics, Identifying Bias in AI, AI Fairness and Inclusiveness, Human-centered AI 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>


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Statistical Methods for AI 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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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 C.M.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


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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 Structures 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(Elective)


Blockchain imran Bashir mastering blockchain elective

Practical Applications of Data science as elective

Kubernetes (Elective)

robotics(elective)

Cloud Integrated Big Data


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Computer design

Augmented reality

Personality development

Generative AI

Robotics

blockchain

looks good



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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 core-elective mix.

Ensure a practical application of concepts, Curriculum adaptable to evolving industry requirements, Chances for industry collaboration and internships, Maintain a balanced core-elective 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


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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

Not

None

No

Having one subject on Reporting/Visualization Tool would help in covering end to end

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Sl. No.	Name of the Candidate	Registration No.	Grade	Result	Remarks
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