Department of Computer Science and Engineering Information Technology Artificial Intelligence & Data Science

MINUTES of 23^{rd} Meeting of the Board of Studies held on 17^{th} May 2025, 09.30 AM

Venue: COE Conference Hall, National Engineering College K.R.Nagar, Kovilpatti – 628 503

23rd Board of Studies Meeting in the Departments of Computer Science and Engineering Information Technology Artificial Intelligence & Data Science

Venue: COE Conference Hall, National Engineering College

K.R.Nagar, Kovilpatti – 628 503

Date & Time: 17.05.2025 & 09.30 AM

Agenda

D G / GGB FF		
BoS / CSE, IT, AI&DS 23.1		Confirmation of the Minutes of the 22 nd meeting of Board of studies in the departments of
		Computer Science & Engineering,
		Information Technology,
		Artificial Intelligence & Data Science
		held on 23 rd November 2024 and Action taken report of 22 nd meeting of Board of studies.
BoS / CSE, IT,	:	Business brought forward by the Chairman, Board of studies
AI&DS 23.2		23.2.1.Core Courses for the 6th semester of B.E. CSE, B.Tech IT and B.Tech AI&DS degree programmes under R-2023.
		23.2.2.Syllabi for Verticals in B.E. CSE, B.Tech IT and B.Tech AI&DS degree programmes under R-2023, for Programme Elective Courses.
		23.2.3.Open elective courses for other UG degree programmes under R-2023
		23.2.4. Course design document for 5th semester courses of R-2023 B.E. CSE, B.Tech IT and B.Tech AI&DS programmes.
		23.2.5.Modifications of 1st semester core courses of R2023 M.E. CSE and M.Tech. ICW Programmes.
BoS / CSE, IT, AI&DS 23.3		Any other items.
BoS / CSE, IT, AI&DS 23.4		Suggestions given by the BoS Members

F. No. 1-1/NEC/CSE, IT, AI&DS

17th May, 2025

Dear Sir/Madam,

Sub: Minutes of the 23rd Meeting of the Board of studies in the Computer Science and Engineering, Information Technology, Artificial Intelligence & Data Science -Reg.

Kindly find attached herewith the Minutes of the 23rd Meeting of Board of studies of the Computer Science and Engineering, Information Technology and Artificial Intelligence & Data Science of the National Engineering College, K.R.Nagar, Kovilpatti - 628 503 held on 17th May 2025 at 09.30 AM in the COE Conference hall of National Engineering college. Hard copy of the Minutes is also being sent to you by speed post.

It is requested that comments on the Minutes, if any, may please be sent by emails at hodcse@nec.edu.in / hodit@nec.edu.in / hodai@nec.edu.in or by post, at the earliest. If no comments are received, within ten days, the minutes shall be taken as confirmed.

Yours Sincerely

Chairman/BoS-AI&DS

Dr.K.G.Srinivasagan Chairman/BoS-IT

Dr.V.Gomathi Chairman/BoS-CSE

Department of Computer Science and Engineering Information Technology Artificial Intelligence & Data Science

MINUTES OF THE MEETING

The 23rd Meeting of the Board of studies of the Computer Science and Engineering, Information Technology and Artificial Intelligence & Data Science was held on 17th May 2025 at 09.30 AM in the COE Conference Hall of National Engineering College.

The following members were present in the COE Conference Hall

1.	Dr.V.Gomathi Professor & Head/ CSE	Chairman BoS/ CSE
2.	Dr.K.G.Srinivasagan Professor & Head/ IT	Chairman BoS/ IT
3.	Dr.V.Kalaivani Professor & Head/ AI&DS	Chairman BoS/ AI&DS
	Experts attended the Meeting	
4.	Dr.S.Sendhil Kumar Professor, Dept. of Information Science and Technology, CEG Campus, Anna University, Chennai.	Anna University Nominee
5.	Dr. B.Surendiran Associate Professor, Dept. of Computer Science and Engineering, National Institute of Technology, Puducherry.	Academic Expert Nominated by the Academic Council
6.	Mr. Roy Antony Arnold George Charles, Lead Consultant, Process and Domain Consulting, Application Development and Maintenance, Infosys Private Ltd., Chennai.	
7.	Mr.K.Sujeeth, Senior Technical Lead- Data Analyst, Mercedes Benz R&D India, Brigate Tech Gargen, Kundanahalli, Bangalore.	Experts from Industries

	Mr.Sivaram Sundaram	
0	Senior Director,	
8.	Comcast India Engineering Centre,	
	Thoraipakkam, Chennai	V V V V V V V V V V
	Mr. Sudeesh Sankaravel,	
9. A	Associate fellow, Data Science,	
	Verizon, Chennai.	
	Dr.V. Natarajan (R&D),	Scientist from Research
10.	Scientist, Quantum Security Research Group,	& Development
	SETS, Chennai.	Laboratories
	Dr.Shajulin Benedict,	
11.	Associate Professor,	A1
11.	Indian Institute of Information Technology,	Alumni Member
	Kottavam, Kerala	
12.	Dr.K.Mohaideen Pitchai,	
12.	Professor/ CSE	
10	Dr.R.Rajakumari,	
13.	Associate Professor/ CSE	
	Dr.G.Sivakamasundari,	
14.	Associate Professor/ CSE	
1-	Dr.B.Shunmugapriya,	
15.	Associate Professor / CSE	
16.	Dr.S.Dheenathayalan,	
16.	Associate Professor / CSE	
17.	Mr.D.Vijayakumar,	
11.	Assistant Professor (SG)/ CSE	
18.	Ms.D.Thamarai Selvi,	
10.	Assistant Professor(SG)/ CSE	
19.	Mr.J.Karthikeyan,	
19.	Assistant Professor (SG)/ CSE	
90	Dr.J.Ida Christy,	Internal Members
20.	Assistant Professor (SG)/ CSE	
01	Dr.R.Muthukkumar,	
21.	Professor/ IT	
00	Dr.S.Chidambaram,	
22.	Associate Professor / IT	
00	Dr.S.Rajagopal,	
23.	Associate Professor / IT	
0.4	Ms.V.Anitha,	
24.	Assistant Professor(SG)/ IT	
0.5	Ms.N.Gowthami,	
25.	Assistant Professor(SG)/ IT	
0.0	Ms.M.Manimegalai,	
26.	Assistant Professor(SG)/IT	

27.	Ms.S.Santhi,	
21.	Assistant Professor(SG)/IT	
28.	Dr.B.Paramasivan	
40.	Professor/AI&DS	
29.	Dr.J.Naskath,	
49.	Associate Professor / AI&DS	
30.	Mr.A.Shenbagharaman,	
50.	Assistant Professor(SG)/ AI&DS	
31.	Ms.V.Veera Anusuya,	
51.	Assistant Professor(SG)/ AI&DS	
32.	Ms.K.Poorani,	
34.	Assistant Professor / AI&DS	
33.	Ms.P.Rampriya,	
აა.	Assistant Professor / AI&DS	
34.	Ms.G.Dhivya,	
54.	Assistant Professor / AI&DS	
35.	Ms.K.R.Indira	
35.	Assistant Professor/AI&DS	
36.	Mr. R. Aravinth Raj,	
50.	II year/ CSE	
37.	Ms.S. Shanmuga Nivetha,	
31.	II year/ CSE	
38.	Mr.S. Alex,	Student Members
30.	Final Year/IT	
39.	Ms.B.Subhainduja,	Nominated by concern HODs
39.	III year/IT	HODs
40.	Mr.M.Sivarama Krishnan,	
40.	II year/AI&DS	
41	Ms.A.Abijin Suvedha,	
41.	II year/AI&DS	

Dr.Dileep.A.D, Associate Professor, Dept. of Computer Science and Engineering, Indian Institute of Technology, Dharwad Karnataka, Dr.C.Mala, Professor, Department of CSE, National Institute of Technology, Tiruchirappalli, Dr. B.L. Velammal, Associate Professor, Department of CSE, Anna university, Chennai, Dr.Sujesh Sreedharan (R&D), Engineer-G, SCTIMST, Trivandrum, and Mr.Arun Rajkumar, Co-Founder & CTO, ATOA payment, Bengaluru could not attend the meeting due to their prior commitments and all of them were granted leave of absence.

		TO CONFIRM THE MINUTES OF 22 nd BOS MEETING HELD ON 23 rd NOV, 2024
D-C/CCD IM		The minutes of the 22 nd Board of Studies meeting held on 23 rd Nov 2024
BoS / CSE, IT,		were communicated to the members. The comments received have been
AI&DS 23.1		incorporated and placed for confirmation. The same was approved by
		the 22 nd Academic council.
	Verial land	> Action Taken Report (Enclosed in Annexure I)
		TO CONFIRM R-2023 B.E. CSE, B.Tech IT and B.Tech AI&DS degree
BoS / CSE, IT,	1800	programmes core courses of 6th semester curriculum and syllabi.
AI&DS 23.2.1		RESOLVED R-2023 B.E. CSE, B.Tech IT and B.Tech AI&DS degree
		programmes core courses of 6th semester curriculum and syllabi.
		TO CONFIRM Syllabi for Verticals in B.E. CSE, B.Tech IT and
		B.Tech AI&DS degree programmes under R-2023, for Programme
BoS / CSE, IT,		Elective Courses.
AI&DS 23.2.2		RESOLVED Syllabi for Verticals in B.E. CSE, B.Tech IT and B.Tech
		AI&DS degree programmes under R-2023, for Programme Elective
		Courses.
		TO CONFIRM Open elective courses for other UG degree programmes
BoS / CSE, IT,		under R-2023.
AI&DS 23.2.3	•	RESOLVED Open elective courses for other UG degree programmes
		under R-2023.
		TO CONFIRM Course design document for 5th semester courses of R-
BoS / CSE, IT,		2023 B.E. CSE, B.Tech IT and B.Tech AI&DS programmes.
AI&DS 23.2.4		RESOLVED Course design document for 5th semester courses of R-2023
		B.E. CSE, B.Tech IT and B.Tech AI&DS programmes.
· ·		TO CONFIRM Modifications of 1st semester core courses of R2023 M.E.
BoS / CSE, IT,		CSE and M.Tech. ICW programmes.
AI&DS 23.2.5		RESOLVED Modifications of 1st semester core courses of R2023 M.E.
		CSE and M.Tech. ICW programmes.
	10 V / 1	ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF
BoS / CSE, IT,		THE CHAIRMANS OF THE BOS (CSE, IT and AI&DS)
AI&DS 23.3		On the whole, this new initiative was very much appreciated by all
		members. The challenges faced by the students (if any) should be

		periodically discussed with them. They also congratulated the faculty members for their team efforts towards framing curriculum structure, syllabi and verticals under regulation 2023.		
BoS / CSE, IT, AI&DS 23.4	•	SUGGESTIONS GIVEN BY THE BOS MEMBERS		
BoS / CSE, IT, AI&DS 23.4.1	•	For R2023 - UG Programmes B.Tech (AI&DS), B.Tech (IT) and B.E.(CSE)) In 23AD61C - Optimization Techniques, in CO1, the Dual Simplex Method may be included and CO4 statement may be reframed.		
BoS / CSE, IT, AI&DS 23.4.2		In 23AD62C – Computer Vision, course contents may be reduced and number of COs may be reduced to 4 and in CO7, the contents may be based on 2D space.		
BoS / CSE, IT, AI&DS 23.4.3		In 23IT61C - Machine Learning, Perceptron may be removed and performance metrics may be added in CO1. The topics from Supervised Learning may be covered in 2 COs, Unsupervised Learning concepts may be given in next 2 COs. The final CO may cover Neural Network concepts.		
BoS / CSE, IT, AI&DS 23.4.4	•	In 23IT62C - Cloud Computing, CO2 statement may be reframed. Concepts of Poly Cloud and Multi Cloud may be included in CO1. In CO4, Firebase, Anaka and Docker may be added. Also for each service, a case study may be included.		
BoS / CSE, IT, AI&DS 23.4.5		In 23IT64C - Essentials of Mobile App Development, CO1 statement may be reframed and Kotlin KMP concept may be included. Also, error handling concepts may be included in CO2. SQLite may be considered for database connectivity instead of PostgreSQL and NoSQL.		
BoS / CSE, IT, AI&DS 23.4.6		In 23IT66C - Machine Learning Laboratory may also be refined based on its theory contents.		
BoS / CSE, IT, AI&DS 23.4.7	:	In 23IT67C - Cloud Computing Laboratory, the word "simple" in the list of experiments may be removed. In CO1 statement, the phrase "using open-source Tools" may be removed.		
BoS / CSE, IT, AI&DS 23.4.8	·	For Programme Core / Elective courses, it is suggested to limit the maximum number of text books as 2 only. In 23CS61C — Business Process Management course, it is suggested to include RPA as case study under CO5.		

	Die.	
BoS / CSE, IT,		In 23CS63C - Data Science course, it is suggested to remove the
AI&DS 23.4.9	•	overlapping contents with allied Mathematics courses. Also, it is
		advised to structure the flow of content in a horizontal slicing approach.
		Anna university nominee and external BoS experts had suggested
		refining the assessment patterns of experiential learning components.
		Also, identifying only few courses under experiential learning
BoS / CSE, IT,		component was pointed out. However, internal BoS experts informed
AI&DS 23.4.10		the NEC guidelines for R2023 and necessity of Project-based learning in
		addition to practical lab experiments for fulfilling the emerging
		technology aspects of Industry and soft-skill improvement of students.
		Syllabi for Programme Elective Courses under each verticals being
		offered (Commonly for B.E. CSE, B.Tech IT and B.Tech AI&DS), few
		suggestions and modifications are pointed out as detailed below:
		Blockchain Technology
		o In 23CS05E/23IT05E/23AD05E — Blockchain using Hyperledger
		course, suggested to rename as "Permissioned Blockchains".Also
		informed to add Kafka consensus algorithm concepts under CO1.
		o In 23CS05E/23IT05E/23AD05E — Blockchain using Hyperledger
		course suggested to remove the contents of Hyperledger Besu
		from CO4.
		Fullstack Development
BoS / CSE, IT,		o In 23CS15E/23IT15E/23AD15E – Mobile Application
AI&DS 23.4.11		Development course, suggested to include APK versioning
		concepts and Kotlin MultiPlatform; to introduce SQlite instead of
		PostgreSQL.
		Industrial AI
	**	o In 23CS43E/23IT43E/23AD43E - Reinforcement Learning, COs
		may be reduced to 4 and suggested to remove the overlapping
		topics in "Deep learning" course like "deep neural networks".
		o In 23CS46E/23IT46E/23AD46E- Ethical AI, in CO4, ethical issues
		of AI in banking, Judicial AI may be included and the reference
		book "AI ethics by Mark Coeckelbergh, MIT press" may be given
		as text book.
		o "Artificial general intelligence" and Machine learning operations

(MLOps) courses may be included in the "Industrial AI domain" verticals

• Computational Intelligence

- One of the experts suggested renaming the vertical from Computational Intelligence to Cognitive Intelligence. However, considering the course coverage in alignment with the IEEE Computational Intelligence Society (PSC of B.E CSE Programme), it has been decided to retain the vertical name as Computational Intelligence.
- In 23CS23E/23IT23E AI tools for Natural Language Processing course, instead of insisting (NLTK, SpaCy, Transformers, etc.)
 many tools, it is suggested to explore any one of the tools.
- o In 23CS25E/23IT25E Fundamentals of Deep Learning course, suggested to remove the overview of ML topics under CO1. Also it is informed to practice the pre-trained model explorations during lab practices. Also it is suggested to follow MLOps frameworks to enhance the skills of model development and deployment.
- o In 23CS28E/23IT28E Reinforcement Learning course may be renamed as Reinforcement Learning Techniques.

• Augmented Reality/ Virtual Reality

- In 23CS35E/23IT35E/23AD35E Augmented Reality and Virtual Reality course, the contents of CO1 may be reduced.
- In 23CS37E/23IT37E/23AD37E Design of Virtual Reality Systems course, CO3 contents to be restructured as per the project based component. Also, insisted to include latest edition of text books.

Business Analytics

- o In 23CS67E/23IT67E/23AD67E-Feature Engineering course, the content under CO4 may be refined by removing topics such as Embedded Methods: Regularization and Tree-based Methods including Random Forest, Gradient Boosting, and XGBoost.
- o The contents under CO5 in the Feature Engineering course can be better organized by focusing on conducting periodic reviews to evaluate performance.

		o Certain topics in 23CS68E/23IT68E/23AD68E - Predictive Analytics
		course overlaps with the 23CS62E/23IT62E/23AD62E - Data Mining
		course. Those redundant contents may be removed and replaced with
		predictive modeling techniques to enhance the course relevance and
		depth.
		Cyber Security
		o In 23CS55E/ 23IT55E/ 23AD55E-Social Network Security, CO2 may
		be removed completely and CO3 may be splitted into two distinct
		COs (CO2 and CO3). Also, the necessity of including access control
		mechanisms for social network security course may be assessed.
		Topics such as phishing attacks may be included.
		o In 23CS59E/ 23IT59E/ 23AD59E- Digital Forensics, Course
		Outcomes may be refined for clarity and relevance. Topics on Data
		Recovery and Incident Response may be included. CERT-In
		guidelines may be referred to identify additional relevant topics.
		o In 23CS56E/ 23IT56E/ 23AD56E- Cyber Security and Ethical
		Hacking, duplication of tools with similar functionalities may be
		avoided. Also, the number of tools covered may be reduced; tool-
		related content may be refined and focus for better clarity and depth.
		Topics on Nessus for Vulnerability Assessment may be included.
		Modifications of Core Courses for R2023 (B.E.(CSE) & B.Tech (IT))
		For B.E. (CSE) & B.Tech (IT), in 23CS54C / 23IT53C - Modern Web
		Technologies course, the L, T, P and E is refined as 1, 0, 2 and 4. Also, the
BoS / CSE, IT,		refined syllabus is presented in the meeting.
AI&DS 23.4.12	÷	For B.Tech (IT), the integrated courses 23IT61C - Machine Learning and
11000 20.1.12		23IT62C - Cloud Computing in 6th Semester is restructured as Theory and
		Laboratory course. The L, T, P, E and C of the courses are mentioned
		accordingly. Also, the syllabus for the courses are presented in the meeting
		and approved.
BoS / CSE, IT,		For R2023 – PG Programmes (M.E. (CSE) & M.Tech (ICW))
AI&DS 23.4.13		The PG core course "Advanced Data Structures" is made common for both
11000 23.4.10		M.E CSE and M.Tech ICW.

The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Curriculum and the Syllabi of R-2023.

Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.

- a. Core Courses for the 6th semester of B.E. CSE, B.Tech IT and B.Tech AI&DS degree programmes under R-2023.
- b. Verticals for R-2023 B.E. CSE, B.Tech IT, and B.Tech AI&DS programmes Curriculum & Syllabi
- c. Additional open elective courses for other UG degree programmes under R-2023.
- d. Course Design Document for 5th semester courses of R2023 B.E. CSE,
 B.Tech IT and B.Tech AI&DS programmes
- e. Modifications of 1st semester core courses of R2023 M.E. CSE and M.Tech. ICW programmes.

Ms.S.Santhi, AP(SG)/IT, thanked all the members for their valuable suggestions and cooperation and the meeting came to an end.

Members Present

Dr.V.Gomathi					
Professor & Head/CSE	1 Jakou				
Chairman BoS/CSE	4.0/10				
Dr.K.G.Srinivasagan	4 1				
Professor & Head/IT	ALOX.				
Chairman BoS/IT	COGN V				
Dr.V. Kalaivani					
Professor & Head/AI&DS	V. Ka 115/25				
Chairman BoS/AI&DS	1 1/1/2/2				
Experts Attended the 2	3rd BoS meeting				
Expert Nominated by the Ann					
Dr.S.Sendhil Kumar					
Professor,	1. 058/1/05/25				
Department of Information Science and Technology,	7. 0 - 17/05/05				
CEG Campus, Anna University, Chennai.					
Academic Experts Nominated I	by the Academic Council				
Dr. B.Surendiran					
Associate Professor,					
Dept. of Computer Science and Engineering,	38mond 12/5/2020				
National Institute of Technology,	17/5/2020				
Puducherry.					
Experts from Industries					
Mr. Roy Antony Arnold George Charles					
Lead Consultant, Process and Domain Consulting,	1 May 1				
Application Development and Maintenance,	25				
Infosys Private Ltd., Chennai.	(4)				

Mr.K.Sujeeth Senior Technical Lead- Data Analyst Mercedes Benz R&D India, Brigate Tech Gargen, Kundanahalli,	K-Enjert
Bangalore. Mr.Sivaram Sundaram, Senior Director, Comcast India Engineering Centre, Thoraipakkam, Chennai.	Moon
Mr. Sudeesh Sankaravel Associate fellow, Data Science, Verizon, Chennai.	dudul
Scientist from Research & De	velopment Laboratories
Dr.V. Natarajan (R&D), Scientist, Quantum Security Research Group, SETS, Chennai.	V. Oeus
Alumni me	mber
Dr.Shajulin Benedict, Associate Professor, Indian Institute of Information Technology, Kottayam, Kerala.	

Internal E	SoS Members
Dr.K.Mohaideen Pitchai	AND THE STATE OF THE PROPERTY
Professor/ CSE	Ch. 0 7/15/25
Dr.R.Rajakumari	ch.o.d. 15/25
Associate Professor/ CSE	Rudingrons
Dr.G.Sivakamasundari	
Associate Professor/ CSE	8-Straken 1715/2025
Dr.B.Shunmugapriya	
Associate Professor / CSE	Multiply
Dr.S.Dheenathayalan	
Associate Professor / CSE	- Smthingson
Mr.D.Vijayakumar	THE STATE OF THE S
Assistant Professor (SG)/ CSE	Vjerskut
Ms.D.Thamarai Selvi	
Assistant Professor(SG)/ CSE	N) () 17/15/200
Mr.J.Karthikeyan	1113120
Assistant Professor (SG)/ CSE	J. Kanthiteye
Dr.J.Ida Christy	0000
Assistant Professor (SG)/ CSE	Ochery J
Dr.R.Muthukkumar,	EARDS 1
Professor/ IT	- nune 12/VW
Dr.S.Chidambaram,	and .
Associate Professor / IT	010 17/5/2x
Dr.S.Rajagopal,	2001
Associate Professor / IT	X - 6 / 1816 B
Ms.V.Anitha,) 0 101
Assistant Professor(SG)/ IT	V. Airthan 12) 12
Ms.N.Gowthami,	10 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Assistant Professor(SG)/ IT	10. Jan Jaka
Ms.M.Manimegalai	M., ()
Assistant Professor(SG)/IT	1. Mann 17/slex
Ms.S.Santhi,	0010
Assistant Professor(SG)/IT	Sour isk
Dr.B.Paramasivan	all w
Professor/AI&DS	P. Marshigh
Dr.J.Naskath	8.61
Associate Professor / AI&DS	30215/21
Mr.A.Shenbagharaman	100
Assistant Professor(SG)/ AI&DS	
Ms.V.Veera Anusuya	111
Assistant Professor(SG)/ AI&DS	V.Ve 175/25
Ms.K.Poorani,	1
Assistant Professor / AI&DS	المالية
Ms.P.Rampriya,	
Assistant Professor / AI&DS	P. 17/5/2,
Ms.G.Dhivya,	COHA -
Assistant Professor / AI&DS	11-125
Ms.K.R.Indira	14121.
Assistant Professor/AI&DS	ICE THE STATE OF T

Mr. R.Aravinth Raj, II year/ CSE	R-AAHONY
Ms.S. Shanmuga Nivetha, II year/ CSE	Right &
Mr.S.Alex, Final Year/IT	Alex-S
Ms.B.Subhainduja, III year/ TT	B. BubhaJendeja
Mr.M.Sivarama Krishnan, II year/AI&DS	M. S.RAL.
Ms.A.Abijin Suvedha, II year/AI&DS	@Quedha.

CHAIRMAN BOS/AI&DS

CHAIRMAN BOS/IT CHAIRMAN BOS/CSE

Annexure I

Action Taken Report for Minutes of 22nd BOS

As per BOS committee suggestions,

- In few core courses, CO statements are refined and the relevance of content coverage are verified.
- In 23CS54C/23IT53C Web Technology, course name was renamed as Modern Web Technologies.
- In 23CS55C/23IT52C Artificial Intelligence course, in CO1, basics of AI are included.
- In 23CS53C/23AD51C DevOps and Agile Methodologies course, Kubernetes is proprietary, an equivalent open source tool was included and reduced few other topics, and credits is balanced to 2 only.
- In 23IT51C Cryptography and Network Security course, Steganography and Watermarking topics are removed; OWASP Top 10, basics on Number Theory was added. The reference book by Behrouz A. Forouzan was shifted as text book.
- In 23AD52C Natural Language Processing, conventional textbooks were included.
- In 23AD53C Big Data Analytics course, advance concepts like AWS, cloud were included as separate course in verticals.
- In 23AD55C Deep Learning, laboratory exercises were given as generic.
- In 23AD43C Computer networks was changed as integrated course.
- The proposed vertical on "Network Security" was renamed as "Cyber Security".
- In the proposed six verticals (offered commonly for B.E. CSE, B.Tech IT and AI&DS), the following courses were renamed as
 - 23CS02E/23IT02E/23AD02E Smart Contract and Web 3.0 course name was renamed as Ethereum Smart Contract.
 - o 23CS11E/23IT11E/23AD11E Python Web Frameworks course name was renamed as Python based Web Frameworks or Web Frameworks using Python.
 - o 23CS13E/23IT13E/23AD13E Open Source Technologies course name was renamed as Open Source Technologies for Web Development.
 - o 23CS17E/23IT17E/23AD17E- Software Testing Techniques course name was renamed as Full stack Testing
 - o 23CS54E/23IT54E/23AD54E IoT Security course name was renamed as IoT and Hardware Security or Hardware Security.
 - o 23CS59E/23IT59E/23AD59E Network Forensics course name was renamed as Digital Forensics.

- For the following vertical courses, CO contents were refined Blockchain Technology
 - o The CO3 and CO4 contents were swapped for 23CS01E/23IT10E/23AD01E Blockchain Architecture and Design course and CO1 was refined.
 - o 23CS33E/23IT33E/23AD33E Game Development course was renamed as Blockchain Gaming and the contents were properly blended.

Business Analytics

- o For 23CS62E/23IT62E/23AD62E Data Mining course, CO4 contents refined and books were updated.
- o In 23CS63E/23IT63E/23AD63E Data Engineering course, Kubernetes were removed and shifted to 23CS53C/23AD51C-DevOps and Agile Methodologies course.
- o Publishers were added for text book of 23CS64E/23IT64E/23AD64E Image and Video Analytics course.

Computational Intelligence

- o Course contents were modified for 23CS22E/23IT22E/23AD22E Machine Learning Techniques course.
- o It was planned to consider the suggested course "Edge Intelligence" in the upcoming revision.

Industrial AI

- o Course contents were refined for 23CS41E/23IT42E/23AD41E Generative AI course.
- o CO4 contents were refined for 23CS42E/23IT42E/23AD42E AI for Industrial applications course.
- For B.Tech IT Programme, the curriculum structure is refined under R-2023.
 - o 5th Semester Programme Elective Course –III was shifted to 6th Semester and Open Elective Course I shifted from 6th to 5th semester.
 - o UI/UX Design course was shifted as an Elective Course and Big Data.

 Analytics was introduced as course during 6th semester.
- For M.E CSE / M.Tech ICW, In 23CT41C/23IC41C Project Work II course, CO5 title was changed.

CHAIRMAN BOS / AI&DS

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23rd BOARD OF STUDIES MEETING - DEPARTMENT OF CSE, IT

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5th BOARD OF STUDIES MEETING - DEPARTMENT OF AI&DS ON 17.05.2025





