

National Engineering College, K.R.Nagar, Kovilpatti – 628 503
(An Autonomous Institution - Affiliated to Anna University, Chennai)
www.nec.edu.in

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

MINUTES of 25th Board of Studies Meeting held on
06th June 2026, 09.30 AM

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

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25th Board of Studies Meeting in the Departments of
**Computer Science and Engineering,
Information Technology and
Artificial Intelligence & Data Science**

Venue: COE Conference Hall, National Engineering College

K.R.Nagar, Kovilpatti – 628 503

Date & Time: 06.06.2026 & 09.30 AM

Agenda

BoS / CSE, IT, AI&DS 25.1	:	Confirmation of the Minutes of the 24 th meeting of Board of studies in the departments of Computer Science & Engineering, Information Technology, and Artificial Intelligence & Data Science held on 6 th Dec 2025 and Action taken report of 24 th meeting of Board of studies.
BoS / CSE, IT, AI&DS 25.2	:	Business brought forward by the Chairman, Board of studies 25.2.1. Curriculum & Syllabi for Programme Elective and Open Elective courses of B.E/B.Tech degree programmes under R-2023 25.2.2. Syllabi for One Credit Courses for B.E/B.Tech degree programmes under R-2023 25.2.3. Students views and Feedback about R-2023 - B.E (CSE) 25.2.4. Students views and Feedback about R-2023 - B.Tech (IT) 25.2.5. Students views and Feedback about R-2023 - B.Tech (AI&DS) 25.2.6. Graduate Outcomes
BoS / CSE, IT, AI&DS 25.3	:	Any other items
BoS / CSE, IT, AI&DS 25.4	:	Suggestions given by the BoS Members

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

06th June, 2026

Dear Sir/Madam,

Sub: Minutes of the 25th 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 25th 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 – 628503 held on 06th June 2026 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,



Dr. V. Kalaivani
Chairman/BoS- AI&DS



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



Dr. V. Gomathi
Chairman/BoS- CSE

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

MINUTES OF THE MEETING

The 25th Meeting of the Board of Studies of the Departments of Computer Science and Engineering, Information Technology and Artificial Intelligence & Data Science was held on 06th June 2026 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.V.Masilamani Professor, Department of CSE, Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram.	Academic Experts Nominated by the Academic Council
6.	Dr. C.Mala Professor, Department of CSE, National Institute of Technology, Tiruchirappalli.	
7.	Dr. B.Surendiran Professor, Department of CSE, National Institute of Technology Puducherry, Puducherry.	

8.	Mr. Roy Antony Arnold George Charles Senior Consultant, Process and Domain Consulting, Application Development and Maintenance, Infosys Private Ltd., Chennai.	Experts from Industries
9.	Mr. Arun Rajkumar Co-Founder & CTO, Atoa Payments Ltd, Bengaluru.	
10.	Mr. K.Sujeeth Senior Technical Lead- Data Analyst, Mercedes Benz R&D India, Bangalore.	
11.	Mr. S R.Dhinesh Khanna Global Head-Customer Success, Zoho Corporation, Chennai.	
12.	Mr. SivaramSundaram Senior Director, Comcast India Engineering Centre, Thoraipakkam, Chennai	
13.	Mr. Sudeesh Sankaravel Associate fellow, Data Science, Verizon, Chennai	
14.	Dr. Shajulin Benedict Associate Professor, Indian Institute of Information Technology, Kottayam, Kerala	Alumni Member
15.	Dr. B.Paramasivan Professor/CSE	Internal Members
16.	Dr.D.Manimegalai Professor/CSE	
17.	Dr. K.Mohaideen Pitchai Professor/ CSE	
18.	Dr. S.Kalaiselvi Associate Professor/ CSE	
19.	Dr. R.Rajakumari Associate Professor/CSE	
20.	Dr. G.Sivakamasundari Associate Professor/ CSE	
21.	Dr. B.Shunmugapriya Associate Professor / CSE	
22.	Dr. S.Dheenathayalan Associate Professor / CSE	
23.	Ms. D.Thamarai Selvi Assistant Professor (SG)/ CSE	
24.	Mr. J.Karthikeyan Assistant Professor (SG)/ CSE	
25.	Dr. J.Ida Christy Assistant Professor (SG)/ CSE	

26.	Ms. R.Sandhiya Assistant Professor/ CSE	
27.	Dr. R.Muthukkumar Professor/ IT	
28.	Dr. S.Chidambaram Associate Professor / IT	
29.	Dr.V.Manimaran Associate Professor / IT	
30.	Dr. S.Rajagopal Associate Professor / IT	
31.	Dr. V.Anitha Assistant Professor(SG)/IT	
32.	Dr.M.Manimegalai Assistant Professor(SG)/IT	
33.	Ms. S.Santhi Assistant Professor(SG)/IT	
34.	Ms. R.Suguna Assistant Professor/IT	
35.	Dr. J.Naskath Associate Professor/AI&DS	
36.	Mr. A.Shenbagharaman Assistant Professor(SG)/ AI&DS	
37.	Ms. K.Poorani Assistant Professor/AI&DS	
38.	Ms.P.Rampriya Assistant Professor/AI&DS	
39.	Ms. G.Dhivya Assistant Professor/AI&DS	
40.	Ms. P.Swarna Gowsalya Assistant Professor/AI&DS	
41.	Ms. M.Saranya Assistant Professor/AI&DS	
42.	Ms. S.Durga Devi IV Year/CSE	Student Members Nominated by concern HODs
43.	Ms. C.Harini III Year/CSE	
44.	Mr.R.Lordson Jabez IV Year/IT	
45.	Ms.S.Darika III Year/IT	
46.	Ms.A.Abijin Suvedha IV Year/AI&DS	
47.	Mr.V.Barath Kumar III Year/AI&DS	

Dr.B.L.Velammal, Dr.Sujesh Sreedharan and Dr.V.Natarajan could not attend the meeting due to his prior commitments and was granted leave of absence.

BoS / CSE, IT, AI&DS 25.1	:	TO CONFIRM THE MINUTES OF 24th BOS MEETING HELD ON 06thDEC, 2025 The minutes of the 24thBoard of Studies meeting held on 06th Dec 2025 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 24thAcademic council. ➤ Action Taken Report (Enclosed in Annexure I)
BoS / CSE, IT, AI&DS 25.2.1	:	TO CONFIRM the approval of Curriculum & Syllabi for Programme Elective and Open Elective courses of B.E/B.Tech degree programmes under R-2023 RESOLVED the approval of Curriculum & Syllabi for Programme Elective and Open Elective courses of B.E/B.Tech degree programmes under R-2023
BoS / CSE, IT, AI&DS 25.2.2	:	TO CONFIRM the approval of Syllabi for One Credit Courses for B.E/B.Tech degree programmes under R-2023 RESOLVED the approval of Syllabi for One Credit Courses for B.E/B.Tech degree programmes under R-2023
BoS / CSE, IT, AI&DS 25.2.3	:	TO DISCUSS and obtain SUGGESTION about Student's Views and Feedback about R-2023 – B.E. (CSE) REVIEWED and ANALYZED the Student's Views and Feedback about R-2023 – B.E. (CSE)
BoS / CSE, IT, AI&DS 25.2.4	:	TO DISCUSS and obtain SUGGESTION about Student's Views and Feedback about R-2023 – B.Tech. (IT) REVIEWED and ANALYZED the Student's Views and Feedback about R-2023 – B.Tech. (IT)
BoS / CSE, IT, AI&DS 25.2.5	:	TO DISCUSS and obtain SUGGESTION about Student's Views and Feedback about R-2023 – B.Tech. (AI&DS) REVIEWED and ANALYZED the Student's Views and Feedback about R-2023 – B.Tech. (AI&DS)
BoS / CSE, IT, AI&DS 25.2.6	:	TO DISCUSS and obtain SUGGESTION about Graduate Outcomes of R-2019 REVIEWED and ANALYZED the Graduate Outcomes of R-2019

BoS / CSE, IT, AI&DS 25.3	:	ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMANS OF THE BoS (CSE, IT and AI&DS) Overall, the external experts appreciated the curriculum innovations in teaching-learning practices, product development initiatives, and skill-based learning with advanced technologies.
BoS / CSE, IT, AI&DS 25.4	:	SUGGESTIONS GIVEN BY THE BOS MEMBERS
BoS / CSE, IT, AI&DS 25.4.1	:	For B.E.(CSE) - In the course 23CS71C – Mini Project, it was recommended to include Git contribution metrics as one of the evaluation parameters in the assessment rubric. - In the course 23CS07N – Simulation and Modeling, it was suggested to include topics such as Pseudo Random Number Generation and Automata, along with the addition of an one more textbook.
BoS / CSE, IT, AI&DS 25.4.2	:	Syllabi for Programme Elective Courses under Cyber Security vertical being offered (commonly for B.E. CSE, B.Tech IT and B.Tech AI&DS), the following suggestions and few modifications are pointed out by Experts: - For the course 23CS51E/23IT51E/23AD51E – Cyber Security, it was suggested to define prerequisite courses for students from other degree programmes; incorporate practical aspects of Cloud Security; limit syllabus overlap among related courses to 25%; verify and update textbook editions; and include industry-oriented case studies in alignment with COs. - For the course 23CS52E/23IT52E/23AD52E – Information Security, it was suggested to rename the course as Applied Information Security, and to include mathematical foundations and case studies corresponding to each CO. - Recommended introducing new courses: Cyber Laws, DevSecOps, Web Application Security, Mobile Security, Cloud Security, IoT Security - Suggested introducing Sprinto and similar industry tools within Cyber Security-related courses.

		Suggested covering Prompt Security Guidelines and utilizing Parrot OS for security testing exercises.
BoS / CSE, IT, AI&DS 25.4.3	:	Suggestions for Industry-oriented TLP practices: - Suggested to build students as “Problem solver” instead of “Code developer”. - Recommended providing hands-on exposure to cloud platforms such as Microsoft Azure, Google Cloud, or similar platforms for practical learning. - Suggested incorporating Git contribution star ratings as a performance indicator. - Recommended introducing coding-practice-based ranking assessments to evaluate programming proficiency.
BoS / CSE, IT, AI&DS 25.4.4	:	Suggestions for AI tools adaptation in TLP practices: - Recommended for integrating AI tool usages and prompt engineering practices across possible and relevant courses. - Recommended for regulating the usage of modern AI development platforms and frameworks such as CLI-based AI tools, and Claude Mythos. - Insisted the growing adoption of AI tools in industry and emphasized strengthening AI competency and understanding among students such as hallucination, ethics and correctness of solutions.
BoS / CSE, IT, AI&DS 25.4.5	:	Suggestions for upcoming R2027 curriculum updates: - Recommended exploring Digital Personal Assistants (Digital PA) as an emerging technology area. - Suggested including Intent Development Frameworks in AI-related courses. - Recommended introducing Agent Development Frameworks to support the development of autonomous AI systems. - Suggested introducing concepts related to FinOps (Financial Operations). - It was suggested to incorporate query optimization techniques for both NoSQL and RDBMS environments.

		• Suggested exploring Supply Chain Management as an emerging application area. • Suggested introducing concepts related to Vision-Language-Action (VLA) Models. • Recommended establishing Robotics and Automation as dedicated specialization/vertical areas.
BoS / CSE, IT, AI&DS 25.4.6	:	BoS members gave the following suggestions for the Student's feedback Questionnaire for R2023 – B.E.(CSE) / B.Tech (IT) / B.Tech AI&DS Curriculum: • To conduct the feedback in anonymous mode for open participations by students • To ask the ability of team leadership, by providing a scenario happened and their role they performed, and extract indirectly. • Feedback on Industrial-Zero Gap was informed to be removed, as the students have little exposure only about Industrial scenarios. • For suggested open views, informed to perform outlier analysis and percentages of key responses to rank them. • For product development, awareness about importance testing and commercialization was lagging among students, it was advised to bring more activities towards that. • Appreciated the real-time industry-sponsored project undertaken by the AI&DS students in collaboration with Mistral Solutions, Bangalore, and recognized its contribution toward experiential learning and industry-oriented learning. • Encouraged students to explore startup opportunities arising from project outcomes and to actively engage with incubation centers, innovation hubs, and industry collaborators. • Suggested greater utilization of authentic datasets from reputed repositories. • Recommended including questions related to infrastructure support to obtain actionable feedback from stakeholders.
BoS / CSE, IT, AI&DS 25.4.7	:	Suggested to strategize for attainment of 101-150 NIRF rank band for getting GCC level On Campus drives.

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

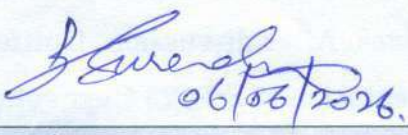
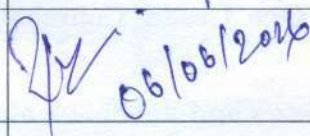
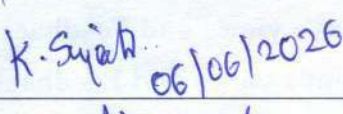
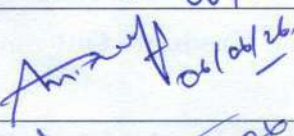
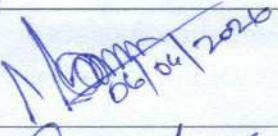
Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.

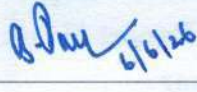
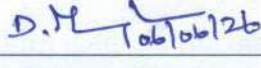
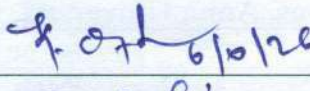
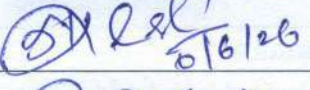
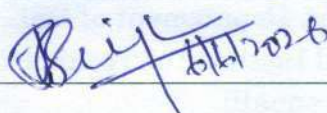
- Curriculum & Syllabi for Programme Elective and Open Elective courses of B.E/B.Tech degree programmes under R-2023
- Syllabi for One Credit Courses for B.E/B.Tech degree programmes under R-2023
- Student's views and Feedback about R-2023 - B.E (CSE)
- Student's views and Feedback about R-2023 - B.Tech (IT)
- Student's views and Feedback about R-2023 - B.Tech (AI&DS)
- Discussion on Graduate Outcomes

Dr.M.Manimegalai, Assistant Professor (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 Chairman BoS/CSE	V.L. 6/6/26
Dr.K.G.Srinivasagan Professor & Head/IT Chairman BoS/IT	[Signature]
Dr.V.Kalaivani Professor & Head/AI&DS Chairman BoS/AI&DS	V.Kal. 06/6/26
Experts Attended the 25th BoS meeting	
Expert Nominated by the Anna University, Chennai	
Dr.S.Sendhil Kumar Professor, Dept. of Information Science and Technology, CEG Campus, Anna University, Chennai.	J. S. 06/06/26
Academic Expert from Central Institutions	
Academic Experts Nominated by the Academic Council	
Dr.V.Masilamani Professor, Department of CSE, Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram.	V. 6/6/2026
Dr. C.Mala Professor, Department of CSE, National Institute of Technology Trichy, Tiruchirappalli.	C.M. 6/6/26

Dr. B.Surendiran Professor, Department of CSE, National Institute of Technology Puducherry, Puducherry.	 06/06/2026.
Experts from Industries	
Mr.Roy Antony Arnold George Charles Senior Consultant, Process and Domain Consulting, Application Development and Maintenance, Infosys Private Ltd., Chennai.	 6/6/26
Mr.Arun Rajkumar Co-Founder & CTO, Atoa Payments Ltd, Bengaluru	 06/06/2026
Mr.K.Sujeeth Senior Technical Lead- Data Analyst Mercedes Benz R&D India, Bangalore.	 K. Sujeeth 06/06/2026
Mr.S R.Dhinesh Khanna Global Head-Customer Success, Zoho Corporation, Chennai.	 06/06/26
Mr.Sivaram Sundaram Senior Director, Comcast India Engineering Centre, Thoraipakkam, Chennai	 06/06/2026
Mr.Sudeesh Sankaravel Associate fellow, Data Science, Verizon, Chennai	 6/6/26
Alumni member	
Dr. Shajulin Benedict Associate Professor, Indian Institute of Information Technology, Kottayam, Kerala.	 6/6/26

Internal BoS Members	
Dr.B.Paramasivan Professor/CSE	 6/6/26
Dr.D.Manimegalai Professor/CSE	 D.M 6/6/26
Dr.K.Mohaideen Pitchai Professor/ CSE	 6/6/26
Dr.S.Kalaiselvi Associate Professor/CSE	 S. Kalaiselvi 6/6/26
Dr.R.Rajakumari Associate Professor/CSE	 6/6/2026
Dr.G.Sivakamasundari Associate Professor/CSE	 G. Sivakamasundari 6/6/26
Dr.B.Shunmugapriya Associate Professor/CSE	 6/6/2026

Dr.S.Dheenathayalan Associate Professor/CSE	S. Dheenathayalan 6.6.26
Ms.D.Thamarai Selvi Assistant Professor(SG)/CSE	D. Thamarai Selvi 6/6/26
Mr.J.Karthikeyan Assistant Professor(SG)/CSE	J. Karthikeyan 6/6/26
Dr.J.Ida Christy Assistant Professor(SG)/CSE	J. Ida Christy 6/6/26
Ms.R.Sandhiya Assistant Professor/CSE	R. Sandhiya 6/6/26
Dr.R.Muthukkumar Professor/ IT	R. Muthukkumar 6.6.26.
Dr.S.Chidambaram Associate Professor/IT	S. Chidambaram 6/6/26
Dr.V.Manimaran Associate Professor/IT	V. Manimaran 060626
Dr.S.Rajagopal Associate Professor/IT	S. Rajagopal 6/6/26
Dr.V.Anitha Assistant Professor (SG)/IT	V. Anitha 6/6/26
Dr.M.Manimegalai Assistant Professor (SG)/IT	M. Manimegalai 6/6/26
Ms.S.Santhi Assistant Professor (SG)/IT	S. Santhi 6/6/26
Ms.R.Suguna Assistant Professor/IT	R. Suguna 6/6/26
Dr.J.Naskath Associate Professor/AI&DS	J. Naskath 6/6/26
Mr.A.Shenbagharaman Assistant Professor(SG)/AI&DS	A. Shenbagharaman 6/6/26
Ms.K.Poorani Assistant Professor/AI&DS	K. Poorani 6/6/26
Ms.P.Rampriya Assistant Professor/AI&DS	P. Rampriya 6/6/26
Ms.G.Dhivya Assistant Professor/AI&DS	G. Dhivya 6/6/26
Ms.P.Swarna Gowsalya Assistant Professor/AI&DS	P. Swarna Gowsalya 6/6/26
Ms.M.Saranya, Assistant Professor/AI&DS	M. Saranya 6/6/26
Ms.S.Durga Devi IV Year/CSE	S. Durga Devi 6/6/26
Ms.C.Harini III Year/CSE	C. Harini 6/6/26

Mr.R.Lordson Jabez IV Year/IT	<u>R. L Jabez</u> 6/6/26
Ms.S.Darika III Year/IT	David S 6/6/26
Ms.A.Abijin Suvedha IV Year/AI&DS	<u>Abinudha</u> 6/6/26
Mr.V.Barath Kumar III Year/AI&DS	<u>V. Barath</u> 6/6/26

V. xpl
CHAIRMAN
BOS / AI&DS

David S
CHAIRMAN
BOS / IT

V. L 6/6/26
CHAIRMAN
BOS / CSE

Annexure I

Action Taken Report for Minutes of 24thBOS Meeting

As per BOS committee suggestions,

Particulars of 24 th BoS MEETING Minutes	DETAILS OF ACTIONS TAKEN
For CSE Board	
Student participation in Opensource contributions, Leetcode / Hackerrank, Gitflows to be included as part of their programming-based courses, Mini project and Mini-capstone projects review rubrics as KPIs.	As per suggestions, it is planned to redesign the rubrics and to be included in the respective course design documents.
In 23CS71C/23IT71C/23AD71C – Mini Project course, insisted the outcomes of projects to be assured with TRL levels.	The initiatives on innovative projects for the faculty mentors with TRL level mappings are informed, to bring the outcomes of projects with TRL levels.
In 23CS61C – Business Process Management in that course, for CO3 and CO4 Agile/ Scrum methodologies to be integrated; for CO5 to follow SaaS orchestration with APIs. To practice AI tools like Zapier, n8n, Camunda for work flow automation.	It is planned to include the suggestions in the course design document as a part of CO Assessments.
In 23CS63C – Data Science course, suggested to practice SQL query optimization module (EXPLAIN/EXPLAIN ANALYZE, indexing, performance tuning in CO1, A/B testing fundamentals with statistical significance interpretation in CO2 and ETL, data warehousing basics, and introduction to Apache Airflow- CO4&CO8.	It is planned to include the suggestions in the course design document as a part of Theory, Practical and Experiential CO component Assessments. Also, refined the syllabus for 23CS63C – Data Science course.
For IT Board	
In 23IT61C - Machine Learning, Bias detection and model fairness evaluation may be covered under the topic Performance measures in CO1. Also, Feature engineering best practices and feature stores concept may be included under CO2 as CO2 deals with supervised learning algorithms	It is planned to include the suggestions in the course design document.

For Syllabi for Programme Elective Courses under each vertical being offered (commonly for B.E. CSE, B.Tech IT and B.Tech AI&DS), the following suggestions and few modifications are pointed out by Experts:

Blockchain Technology

- In 23CS04E / 23IT04E / 23AD04E - Blockchain Security course, it is suggested to convert the course into an integrated theory-practical course by reducing the content that requires extensive hands-on sessions or case studies.

As per suggestion, 23CS04E / 23IT04E / 23AD04E - Blockchain Security course is restructured as integrated theory-practical course with L-2 and P-2 hours.

Theoretical Computer Science

- In 23CS72E / 23IT72E / 23AD72E - Approximation Algorithms course, the contents of CO4 and CO5 may be interchanged.
- In 23CS74E / 23IT74E / 23AD74E - Computational Graph Theory course, the practical components may be implemented using C or C++ only. The Neo4j tool may be used for simulation.

As per the suggestions, CO4 and CO5 order was changed.

As per the suggestions, it is decided to demonstrate Neo4j tool for visualization along with C / C++ coding practices.

Fullstack Development

- In 23CS17E / 23IT17E / 23AD17E - Fullstack testing, include end to end testing with playwright and Cucumber framework, remove CI/CD pipeline. Offer as an integrated practical course instead of theory-only. Refine CO3. Allow students to practice any one tool as hands-on.
- In 23CS18E / 23IT18E / 23AD18E - Flutter and Firebase, the first reference book may be prescribed as a text book. Also, contents on Performance Optimization and CI/CD for mobile may be included. Suggested to revise the title as "Fullstack App with Flutter and Firebase". Also, encouraged to deploy the app in either Google play or Apple app store.

As per the suggestions, 23CS17E/23IT17E/23AD17E - Full stack testing course is restructured as integrated theory-practical course with L-2 and P-2 hours. Also, the corrections are carried out by removing the few topics and CO3 statement was refined. Also, the content level corrections are done. It is planned to follow practice exercises using Selenium / Cucumber / Playwright tools.

As per the suggestions, the course title was revised as "23CS18E/23IT18E/23AD18E - Fullstack App with Flutter and Firebase". Both textbook and references are updated. Also, the content level corrections are carried out.

Computational Intelligence • In 23CS26E/23IT26E/23AD26E - Time Series Analysis course, suggested to merge CO1 and CO2; CO4 and CO5. Instead, informed to introduce two COs that are related to deep learning models such as RNN, LSTM, GRUs and transformer-based models. • In 23CS27E / 23IT27E / 23AD27E - Nature and bio inspired computing course, suggested to remove the contents of CO4 and elaborate the contents CO3 into CO3 and CO4. • In 23CS24L / 23IT24L / 23AD24L - Remote sensing and GIS, suggested to change the textbooks with recent editions. • In 23CS22L / 23IT22L / 23AD22L - Agentic AI tools and frameworks course, suggested to modify the course as a Practical rather than as a Theory. Also, insisted to verify the latest practices in Industry. • In 23CS23L / 23IT23L / 23AD23L - CUDA programming course name may be changed as Accelerated AI development using CUDA.	As per the suggestions, in overall the four COs (Co1-CO2, CO4-CO5), the content level corrections are carried out. Also, latest topics related to deep learning models are included. As per the suggestions, the course content flow was modified and the redundant contents in CO2 with Soft Computing course were removed. As per the suggestions, the following new edition books were included as text books. As per the suggestions, for 23CS22L/23IT22L/23AD22L - Agentic AI tools and frameworks, the course structure was modified as Practical one credit course (P-2 hours) with latest industrial practices. As per the suggestions, the course title was revised as “23CS23L/23IT23L/23AD23L - Accelerated AI development using CUDA”.
Augmented Reality & Virtual Reality • In 23CS36E/23IT36E/23AD36E - Human Computer Interaction course name may be changed as “AI for Human Computer Interaction” to emphasize the integration of AI concepts within HCI. • In 23CS38E/23IT38E/23AD38E - Metaverse Development course, revise CO5 statement, incorporate case studies to illustrate real-world applications, and consider adding simulators (e.g., Roblox Studio) to enhance hands-on learning.	As per the suggestions, the course title was revised as “23CS36E/23IT36E/23AD36E - AI for Human Computer Interaction”. As per the suggestions, the CO5 statement was revised and Roblox studio and suggested case studies were included in CO5.
Cyber Security • In 23IT57E/23CS57E/23AD57E - Firewall and Intrusion Detection Systems Course, suggested to interchange the order of CO3 & CO4 contents and to add Case studies or may add Institutional firewall analysis	As per the suggestions, CO3 and CO4 has contents were interchanged and Institutional Firewall Study and Analysis included in CO4.

to demonstrate the Layout / Architecture of firewalls. • In 23IT54E/23CS54E/23AD54E - Security and Privacy in IoT course, suggested to convert the course into an integrated theory-practical with inclusion of AI tools in possible COs. Also to shift the second reference book as the text book. • In 23IT58E/23CS58E/23AD58E - Threat Intelligence and Risk Management course, first reference book may be shifted as text book. • In 23IT5ME/23CS5ME/23AD5ME - Mini-Capstone Project, remove the word "Introduction" in Module 5. • Fundamentals of IOT and its Applications may be given as a Programme Core Course in curriculum instead of from NPTEL. • Risk Management for Medical devices course may be included with R&D related case studies. • Suggested to create talent pools in Cyber Security domain with AI tools integration.	As per the recommendations, practical component included in the syllabus and restructured as an Integrated Course. Also, second reference book shifted to text book. As per the suggestions, first reference book is changed as text book. As per the suggestions, "Introduction" keyword in Module 5 is removed and R&D related case studies were included
Business Analytics • To include 23IT61E/23CS61E/23AD61E - Bioinformatics course, recommended to change the vertical name as Data analytics. • In 23IT69E/23CS69E/23AD69E - Prescriptive Analytics and Optimization, the book given in references titled, "Hands-On Prescriptive Analytics: Optimizing Your Decision Making with Python", may be prescribed as text book and content can be aligned as per the book content.	The course has been realigned and will hereafter fall under the "Industrial AI" vertical. As per the recommendations, the book has been prescribed as the textbook and the course content has been revised accordingly.
Industrial AI • In 23AD44E/23CS44E/23IT44E – AI for Robotics, simulation-based case studies may be included to strengthen practical understanding and applications. • In 23AD45E/23CS45E/23IT45E – AI in Supply Chain, Alumni/Industry	In 23AD44E/23CS44E/23IT44E – AI for Robotics, simulation-based case studies were included to strengthen practical understanding and applications. In 23AD45E/23CS45E/23IT45E – AI in Supply Chain, it is planned to invite

experts/Management faculty specializing in Supply Chain Management may be invited to conduct one or two sessions on recent trends and emerging practices in the field. - In 23AD47E/23CS47E/23IT47E – Responsible AI, AI tools such as Claude may be included to enhance hands-on learning related to ethics, bias, and safe AI practices. - In 23AD41L/23CS41L/23IT41L – Intelligent Dashboard Development using Modern Tools, Open-source platforms such as Apache Superset, Cursor IDE may be included. Integration of data streaming from various sources may also be included.	Alumni/Industry experts/Management faculty specializing in Supply Chain Management to conduct one or two sessions on recent trends and emerging practices in the field. In 23AD47E/23CS47E/23IT47E – Responsible AI, AI tools such as Claude were included to enhance hands-on learning related to ethics, bias, and safe AI practices. In 23AD41L/23CS41L/23IT41L – Intelligent Dashboard Development using Modern Tools, Open-source platforms such as Apache Superset, Cursor IDE were included. Integration of data streaming from various sources were also included.
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25th BOARD OF STUDIES MEETING - DEPARTMENT OF CSE, IT
&
7th BOARD OF STUDIES MEETING - DEPARTMENT OF AI&DS ON 06.06.2026

