GLOBAL ACADEMY OF TECHNOLOGY
(Autonomous)

Approved by AICTE, New Delhi and Affiliated to VTU, Belagavi
Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru-560098

INTERNAL QUALITY ASSURANCE CELL

Compendium of
Board of Studies Proceedings

AY 2024-25

DISCLAIMER

All rights reserved by the competent authorities of Global Academy of Technology. No part of this book/report may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the competent authorities of Global Academy of Technology, except in the case of brief quotations embodied in critical reviews and certain other non-commercial uses permitted by copyright law. In this book/report, the thoughts, views, and opinions expressed by the respective Department's Board of Studies members are solely their own and do not reflect the official policy or position of either the Office of the Internal Quality Assurance Cell, Global Academy of Technology or the Institution.

GLOBAL ACADEMY OF TECHNOLOGY

Autonomous Institution Affiliated to Visveswaraya Technological University
Approved by UGC, AICTE and Govt of Karnataka

Office of the Internal Quality Assurance Cell

SUMMARY OF BOARD OF STUDIES (BOS) PROCEEDINGS
CURRICULUM DEVELOPMENT MEETINGS HELD DURING THE AY 2024-25

S. No.	Name of the Department	Date of Meeting		Page No.
		Odd Term	Even Term	
1	Aeronautical Engineering	09-08-2024	14-05-2025	1-27
2	Artificial Intelligence and Data Science	19-08-2024	21-05-2025	28-35
3	Artificial Intelligence and Machine Learning	26-07-2024	20-05-2025	36-59
4	Civil Engineering	21-09-2024	27-05-2025	60-82
5	Computer Science and Engineering	14-09-2024	-	83-88
6	CSE (Artificial Intelligence and Machine Learning)	05-07-2024	31-05-2025	89-104
7	Electronics and Communication Engineering	14-09-2024	19-05-2025	105-111
8	Electrical and Electronics Engineering	10-08-2024	24-05-2025	112-125
9	Information Science and Engineering	-	17-05-2025	126-142
10	Mechanical Engineering	17-09-2024	31-05-2025	143-174
11	Basic Science and Humanities	P: 06-08-2024 C: 08-08-2024 M: 31-07-2024	M: 23-05-2025	175-194
12	Master of Business Administration	13-11-2024 & 21-11-2024	-	195-219

Department of Aeronautical Engineering

GLOBAL ACADEMY OF TECHNOLOGY
(Autonomous)

Department of Aeronautical Engineering

Proceedings of Board of Studies Meeting

Date: 9th August 2024

at

Conference Hall

Department of Aeronautical Engineering, GAT

09/8/2024

Chairman, BoS
Head of the Department
Dept. of Aeronautical Engineering
Global Academy of Technology
R.R. Nagar, Bengaluru - 560 098.

Principal

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

GLOBAL ACADEMY OF TECHNOLOGY
(Autonomous)

Department of Aeronautical Engineering

Board of Studies

Date: 9th August 2024

at

Conference Hall

Department of Aeronautical Engineering GAT

COMPREHENSIVE REPORT

of

Proceedings and Curriculum Revision

for Academic Year 2024-25

Chairman, BoS
Dr Bino Prince Raja D
Professor & Head
Department of Aeronautical Engineering

GLOBAL ACADEMY OF TECHNOLOGY
(Autonomous)

Department of Aeronautical Engineering

Board of Studies meeting

(09-08-2024)

Conference Hall, Aeronautical Engineering, GAT

Agenda

1. Approval of scheme and syllabus for III to VIII Aeronautical Engineering semesters for the 2023-2027 batch students.
2. Reapproval of syllabus of V and VI Aeronautical Engineering semesters for the 2022-2026 batch students.
3. Reapproval of syllabus of VII and VIII semesters of Aeronautical Engineering for students of the 2021-2025 batch.
4. Approval of syllabus of 'Elements of Aeronautics' for the I year 2024-2028 batch.
5. Approval of a panel of BoE with external examiners.
6. Any other

BoS Panel for the Academic year 2024-2025

Name	Designation	Organisation	Position
Dr. Bino Prince Raja D	Professor & HOD	Aeronautical Department, GAT	Chairman
Dr.N. Balakrishnan	Professor	Aerospace Department, Indian Institute of Science	VTU Nominee
Mr. Jitesh Sachdeva	Scientist F and Group Director (FMC)	Aeronautical Development Establishment (ADE), DRDO	Industry Expert
Mr.Adishesha Sivaramasastry	Director- Technology & Innovation	Collins Aerospace	Industry Expert
Dr. Jayahar Sivasubramanian	HOD	Department of Aerospace and Automotive Engineering, M. S. Ramaiah University of Applied Sciences	Subject Expert
Dr. Tamilselvam N	Associate Professor	Aeronautical Department, GAT, Bangalore	Member Secretary
Dr.Suresh C	Associate Professor	Aeronautical Department, GAT, Bangalore	Member
Prof Mahantayya K H	Assistant Professor	Aeronautical Department, GAT, Bangalore	Member
Mrs. Chandrika M B	Assistant Professor	Aeronautical Department, GAT, Bangalore	Member

31/7/2024

Dr. Bino Prince Raja D
Chairman, BoS
Department of Aeronautical Engineering

Head of the Department
Dept. of Aeronautical Engineering
Global Academy of Technology
R.R. Nagar, Bengaluru - 560 098.

31/7/2024

Dr. Tamilselvam N
Member secretary, BoS
Department of Aeronautical Engineering

GLOBAL ACADEMY OF TECHNOLOGY

(Autonomous)

Department of Aeronautical Engineering

Proceedings of the Board of Studies in Aeronautical Engineering meeting held on 09th August 2024 in the Department of Aeronautical Engineering

Members Present

Name	Designation	Organisation	Position
Dr. Bino Prince Raja D	Professor & HoD	Aeronautical Department, GAT	**Chairman**
Dr.N. Balakrishnan	Professor	Aerospace Department, Indian Institute of Science	**VTU Nominee**
Mr. Jitesh Sachdeva	Scientist F and Group Director (FMC)	Aeronautical Development Establishment (ADE), DRDO	**Industry Expert**
Mr.Adishesha Sivaramasastry	Director- Technology & Innovation	Collins Aerospace	**Industry Expert**
Dr. Jayahar Sivasubramanian	HoD	Department of Aerospace and Automotive Engineering, M. S. Ramaiah University of Applied Sciences	**Subject Expert**
Dr. Tamilselvam N	Associate Professor	Aeronautical Department, GAT, Bangalore	**Member Secretary**
Dr.Suresh C	Associate Professor	Aeronautical Department, GAT, Bangalore	**Member**
Prof Mahantayya K H	Assistant Professor	Aeronautical Department, GAT, Bangalore	**Member**
Mrs. Chandrika M B	Assistant Professor	Aeronautical Department, GAT, Bangalore	**Member**

The chairman welcomed all the members of the board. The subjects listed in the agenda were deliberated and proceedings are as follows:

1. The complete scheme and syllabus for III to VIII semesters for the batch 2023-2027(2023 scheme) has been approved and is enclosed herewith as Appendix-I.
2. The syllabus for the V to VI semesters of Aeronautical Engineering for students of the 2022-2026 batch (2022 scheme) has been reapproved.
3. The syllabus of VII and VIII semesters of Aeronautical Engineering for students of the 2021-2025 batch (2021 scheme) has been reapproved.
4. The syllabus of 'Elements of Aeronautics' for the first year (2024-2028 batch) has been approved and is enclosed herewith as Appendix II.
5. The Panel of Board of Examiners for the academic year 2024 – 2025 has been approved and is enclosed herewith as Appendix III.

Below is the list of panel members attended the meeting

Sl No.	Name	Position	Signature
1	Dr. Bino Prince Raja D	Chairman	9/8/2024
2	Dr.N. Balakrishnan	VTU Nominee	
3	Mr. Jitesh Sachdeva	Industry Expert	
4	Mr.Adishesha Sivaramasastry	Industry Expert	
5	Dr. Jayahar Sivasubramanian	Subject Expert	9/8/24
6	Dr. Tamilselvam N	Member Secretary	9/8/24
7	Dr.Suresh C	Member	9/8/24
8	Prof Mahantayya K H	Member	9/8/24
9	Mrs. Chandrika M B	Member	9/8/24

9/8/2024

Dr. Bino Prince Raja D
Chairman, BoS
Department of Aeronautical Engineering.

Head of the Department
Dept. of Aeronautical Engineering
Global Academy of Technology
R.R. Nagar, Bengaluru - 560 098.

9/8/24

Dr.Tamilselvam N
Member secretary, BoS
Department of Aeronautical Engineering.

Dr. H.M Rajashekar Swamy
Dean Academics, GAT

Dean Academic
Global Academy of Technology,
Rajarajeshwarinagar, Bengaluru-98

Global Academy of Technology
An Autonomous Institution Affiliated to Visvesvaraya Technological University, Belgavi
Approved by UGC, AICTE and Govt. of Karnataka
NBA Accredited CSE, CV, ECE, EEE, ISE and ME Programmes

DEPARTMENT OF AERONAUTICAL ENGINEERING

BOARD OF STUDIES (BOS) MEMBERS A.Y 2024-2025

Name	Designation	Organization	Email ID	Mobile Number	Position
Dr. Bino Prince Raja D	Professor & HOD	Aeronautical Department, GAT	hodae@gat.ac.in	9715808525	**Chairman**
Dr.N. Balakrishnan	Professor	Aerospace Department, Indian Institute of Science	nbalak@iisc.ac.in	9448466504	**VTU Nominee**
Mr. Jitesh Sachdeva	Scientist F and Group Director (FMC)	Aeronautical Development Establishment (ADE), DRDO	jitesh14@gmail.com	63635 58925	**Industry Expert**
Mr.Adishesha Sivaramasastry	Director-Technology & Innovation	Collins Aerospace	adishesha.sivaramasastry@collins.com	9741995670	**Industry Expert**
Dr. Jayahar Sivasubramanian	HOD	Department of Aerospace and Automotive Engineering, M. S. Ramaiah University of Applied Sciences	hod.aae.et@msruas.ac.in	+91 7795701987	**Subject Expert**
Dr. Tamilselvam N	Associate Professor	Aeronautical Department, GAT, Bangalore	tamilselvam@gat.ac.in	9003797583	**Member Secretary**
Dr.Suresh C	Associate Professor	Aeronautical Department, GAT, Bangalore	Sureshc@gat.ac.in	9943218339	**Member**
Prof Mahantayya K H	Assistant Professor	Aeronautical Department, GAT, Bangalore	mahantayya@gat.ac.in	7795503593	**Member**
Mrs. Chandrika M B	Assistant Professor	Aeronautical Department, GAT, Bangalore	Chandrika@gat.ac.in	7204891624	**Member**

BOS CHAIRMAN
Head of the Department
Dept. of Aeronautical Engineering
Global Academy of Technology
R.R. Nagar, Bengaluru - 560 098.

H.M. Rajashekhar Swar
DEAN
Dean Academic
Global Academy of Technology,
Rajarajeshwarinagar, Bengaluru-98

PRINCIPAL
PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

GLOBAL ACADEMY OF TECHNOLOGY
An Autonomous Institute, Affiliated to VTU Belagavi,
Approved by AICTE, Accredited by NAAC,'A' Grade,
Ideal Homes Township, Raja Rajeshwari Nagar, Bengaluru – 560 098
Tel: +91 80 28603158 Email: hodae@gat.ac.in Web: www.gat.ac.in
Department of Aeronautical Engineering

- **Action Taken**: Avionics standards, communication and control, standards regulations, and certification-related topics are added to the avionics course syllabus.

Dr. Jayahar – HoS, MSRAU

1. The 'Aircraft Design' subject can be shifted to an earlier semester to provide students with a head start in design-related concepts.
   - **Action Taken**: Aircraft Design has been moved to the sixth semester in the revised curriculum.
2. Elements of Aeronautics (EOA) can be offered in the third semester to allow early exposure to optimization techniques.
   - **Action Taken**: EOA has been introduced in the third semester for the revised 2023 scheme.
3. Students can study control systems before system-related subjects to ensure a proper understanding of control fundamentals.
   - **Action Taken**: Control Systems has been repositioned before systems subjects in the revised 2023 scheme.
4. AI/ML for Aeronautics can be introduced as a course in the fourth semester to equip students with cutting-edge knowledge in AI and machine learning.
   - **Action Taken**: 'AI/ML in aerospace applications' has been added as an Ability Enhancement Course in the fourth semester.
5. The eighth semester will be kept free of coursework to allow students to focus on final projects, internships, or research.

GLOBAL ACADEMY OF TECHNOLOGY
An Autonomous Institute, Affiliated to VTU Belagavi,
Approved by AICTE, Accredited by NAAC,'A' Grade,
Ideal Homes Township, Raja Rajeshwari Nagar, Bengaluru – 560 098
Tel: +91 80 28603158 Email: hodae@gat.ac.in Web: www.gat.ac.in
Department of Aeronautical Engineering

- **Action Taken**: A combined course on drone technology is being drafted and accommodated in the curriculum 2023.

Dr. Adhishesha – Collins Aerospace

1. More electronics-related subjects can be introduced to provide a strong foundation in electronics throughout the program.
   - **Action Taken**: decided to provide a value-added program on "Basic Electricals and Electronics for Aeronautical Engineering" in the fourth sem.
   - **Introduced 'System Engineering for Aeronautical Engineers' in the sixth semester.**
2. The subject of Stability and Control can be shifted to the sixth semester to better align with the program's progression.
   - **Action Taken**: Flight Mechanics has been rescheduled to the sixth semester in the revised curriculum 2023.
3. Mathematics can be taught using MATLAB to enhance the computational understanding and practical application of mathematical concepts.
   - **Action Taken**: MATLAB-based teaching methods have been introduced in Mathematics courses starting from the first semester.
4. The System Engineering subject can be moved to higher semesters to accommodate advanced learning once students are familiar with the core concepts.
   - **Action Taken**: System Engineering has been shifted to the sixth semester for better curriculum flow.
5. Avionics standards, communication and control, standards regulations, and certification-related topics can be introduced to better prepare students for industry requirements.

GLOBAL ACADEMY OF TECHNOLOGY
An Autonomous Institute, Affiliated to VTU Belagavi,
Approved by AICTE, Accredited by NAAC,'A' Grade,
Ideal Homes Township, Raja Rajeshwari Nagar, Bengaluru – 560 098
Tel: +91 80 28603158 Email: hodae@gat.ac.in Web: www.gat.ac.in
Department of Aeronautical Engineering

BoS Member Comments and Actions Taken

Dr. Jitesh Sachdeva – Scientist, ADE

1. A technical seminar can be added as one of the assessment tools for subject assignments to enhance student presentation and research skills.
   - **Action Taken**: Incorporated in the revised curriculum 2023.
2. Topics related to AI in defence applications can be integrated into relevant subjects to align with modern technological trends in defence.
   - **Action Taken**: A course titled "AI&ML in Aerospace Application" is introduced in the fourth semester.
3. A laboratory-type simulator can be developed to provide hands-on experience in practical applications, enhancing the learning experience.
   - **Action Taken**: A student team has been made to develop the simulator with the available resources with the guidance of Dr. Jitesh Sachdeva.
4. Students can be encouraged to take courses beyond the prescribed credit points, with appropriate recognition or value given to these efforts.
   - **Action Taken**: A provision has been provided in the 8th semester to do professional elective and open elective courses through online mode.
5. The concept of normal distribution can be included in Module 4 of 3rd-semester Mathematics to strengthen statistical understanding in the curriculum.
   - **Action Taken**: A request has been made to the mathematics board to add the normal distribution in module 4 of complex variables and probability course.
6. Drone-related courses can be consolidated into a comprehensive single course to streamline the learning process and improve course coherence.

GLOBAL ACADEMY OF TECHNOLOGY
An Autonomous Institute, Affiliated to VTU Belagavi,
Approved by AICTE, Accredited by NAAC,'A' Grade,
Ideal Homes Township, Raja Rajeshwari Nagar, Bengaluru – 560 098
Tel: +91 80 28603158 Email: hodae@gat.ac.in Web: www.gat.ac.in
Department of Aeronautical Engineering

- **Action Taken**: The eighth semester has been designated for project work and internships only. The 7th and 8th semesters are swappable as per the student's engagement in project and internship. Students should do online courses during the 8th semester as prescribed by the VTU.

6. The subjects of performance, stability, and control will be combined into a single course to streamline the learning process.

   - **Action Taken**: These subjects have been merged into a unified course 'Flight Mechanics' in the updated syllabus.

7. The Control Engineering subject can be moved to the fourth semester to provide students with early exposure to control theory and its applications.

   - **Action Taken**: Control Engineering has been advanced to the fourth semester in the curriculum 2023.

8. Self-learning courses related to LaTeX can be introduced to allow students to learn typesetting and document preparation independently.

   - **Action Taken:** LaTeX has been introduced as value added course in the 7th semester to learn typesetting and document preparation independently.

9. Research Methodology can be made a self-learning course, encouraging students to develop research skills independently.

   - **Action Taken**: 'Research Methodology and IPR' has been introduced in the 5th semester as a 3 credit course.

GLOBAL ACADEMY OF TECHNOLOGY
(Autonomous)

Department of Aeronautical Engineering
Proceedings of the Board of Studies Meeting

Date: 14th May 2025

at

Conference Hall

Department of Aeronautical Engineering, GAT

14/05/2025

Chairman, BoS
Head of the Department
Dept. of Aeronautical Engineering
Global Academy of Technology
R.R. Nagar, Bengaluru - 560 098.

Principal

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

GLOBAL ACADEMY OF TECHNOLOGY

(Autonomous)

Department of Aeronautical Engineering

Board of Studies

Date: 14th May 2025

at

Conference Hall

Department of Aeronautical Engineering GAT

COMPREHENSIVE REPORT

of

Proceedings and Curriculum Revision

for Academic Year 2025-2026

Chairman, BoS

Dr Bino Prince Raja D

Professor & Head

Department of Aeronautical Engineering

Member Secretary, BoS

Dr. Tamilselvam Nallusamy

Associate Professor

Department of Aeronautical Engineering

Global Academy of Technology

An Autonomous Institution Affiliated to Visvesvaraya Technological University, Belgavi
Approved by UGC, AICTE and Govt. of Karnataka
NBA Accredited CSE, CV, ECE, EEE, ISE and ME Programmes

DEPARTMENT OF AERONAUTICAL ENGINEERING

BOARD OF STUDIES (BOS) MEMBERS A.Y. 2025-2026

Name	Designation	Organization	Email ID	Mobile Number	Position
Dr. Bino Prince Raja D	Professor & HOD	Aeronautical Department, GAT	hodae@gat.ac.in	9715808525	**Chairman**
Dr.N. Balakrishnan	Professor	Aerospace Department, Indian Institute of Science	nbalak@iisc.ac.in	9448466504	**VTU Nominee**
Dr Madhusudan A. Padmanabhan,	Scientist-H/OS & Associate Technology Director, Airframe Directorate	Aeronautical Development Agency (ADA), DRDO, Bangalore	amadhu.ada@gov.in	9481168971	**Industry Expert**
Dr. Prathapanayaka R	Chief Scientist-Propulsion Division	CSIR-NAL, Bangalore	prathap@nal.res.in	94486 64726	**Industry Expert**
Dr.Nagaraja S R	Chairman	Department of Aerospace Engineering, Dayananda Sagar University, Bangalore	chairman-ae@dsu.edu.in	9845641131	**Subject Expert**
Dr. Tamilselvam N	Associate Professor	Aeronautical Department, GAT, Bangalore	tamilselvam@gat.ac.in	9003797583	**Member Secretary**
Dr.Suresh C	Associate Professor	Aeronautical Department, GAT, Bangalore	Sureshc@gat.ac.in	9943218339	**Member**
Dr. Maruthupandiyan K	Associate Professor	Aeronautical Department, GAT, Bangalore	maruthupandiyan@gat.ac.in	8015564875	**Member**
Dr. Paramesh T	Assistant Professor	Aeronautical Department, GAT, Bangalore	tparamesh@gat.ac.in	90604 08660	**Member**
Ms. Rushika Jaishanker	Associate I, Technical Publication, DHC	Capgemini Pvt. Ltd., Bangalore	rushikajaishanker@gmail.com	7259160239	**Alumni Representative**

BOS CHAIRMAN
Head of the Department
Dept. of Aeronautical Engineering
Global Academy of Technology
R.R. Nagar, Bengaluru - 560 098.

13/05/25

DEAN
Dean Academic
Global Academy of Technology,
Rajarajeshwarinagar, Bengaluru-98

PRINCIPAL
PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

GLOBAL ACADEMY OF TECHNOLOGY
(Autonomous)

Department of Aeronautical Engineering

Board of Studies meeting on 14-05-2025

Conference Hall, Aeronautical Engineering, GAT

Agenda

1. To discuss and obtain approval for the 3rd to 8th semester scheme under the 2024 scheme.
2. To discuss and obtain approval for the 3rd to 4th semester syllabus under the 2024 scheme
3. To review and seek reapproval of the syllabus for the 7th and 8th semester subjects of the 2023 scheme.
4. To review and seek reapproval of the syllabus for the 5th and 6th semester subjects of the 2022 scheme, including all required corrections.
5. To discuss subjects across all schemes that are aligned with employability, entrepreneurship, and skill development, and propose necessary enhancements.
6. To present and review the value-added courses planned for the academic year 2025–2026.
7. To discuss and finalise the structure of skill development courses to be conducted during the academic year 2025–2026.
8. To discuss and incorporate relevant points based on feedback received from industry experts, stakeholders, alumni, and academicians from reputed institutions.
9. Any Other

13/5/25

Dr. Tamilselvam N
Member secretary, BoS
Department of Aeronautical Engineering

13/5/2025

Dr. Bino Prince Raja D
Chairman, BoS
Department of Aeronautical Engineering

Head of the Department
Dept. of Aeronautical Engineering
Global Academy of Technology
R.R. Nagar, Bengaluru - 560 098.

GLOBAL ACADEMY OF TECHNOLOGY
(Autonomous)
Department of Aeronautical Engineering

Minutes of the Meeting

14th May 2025, 10.30 AM

Conference Hall, Department of Aeronautical Engineering

Members Present

Name	Designation	Organization	Position
Dr.H B. Balakrishna	Principal	GAT	**Special Invitee**
Dr. Latha Rajagopalan	Dean-Academics	GAT	**Special Invitee**
Dr. Bino Prince Raja D	Professor & HOD	Aeronautical Department, GAT	**Chairman**
Dr.N. Balakrishnan	Professor	Aerospace Department, Indian Institute of Science	**VTU Nominee**
Dr Madhusudan A. Padmanabhan,	Scientist-H/OS & Associate Technology Director, Airframe Directorate	Aeronautical Development Agency (ADA), DRDO, Bangalore	**Industry Expert**
Dr. Prathapanayaka R	Chief Scientist-Propulsion Division	CSIR-NAL, Bangalore	**Industry Expert**
Dr.Nagaraja S R	Chairman	Department of Aerospace Engineering, Dayananda Sagar University, Bangalore	**Subject Expert**
Dr. Tamilselvam N	Associate Professor	Aeronautical Department, GAT, Bangalore	**Member Secretary**
Dr.Suresh C	Associate Professor	Aeronautical Department, GAT, Bangalore	**Member**
Dr. Maruthupandiyan K	Associate Professor	Aeronautical Department, GAT, Bangalore	**Member**
Dr. Paramesh T	Assistant Professor	Aeronautical Department, GAT, Bangalore	**Member**
Ms. Rushika Jaishanker	Associate I, Technical Publication, DHC	Capgemini Pvt. Ltd., Bangalore	**Alumni Representative**

Minutes of the Board of Studies (BoS) Meeting

1. Discussion and Approval of the 3rd to 8th Semester Scheme under the 2024 Scheme

The proposed academic scheme for the 3rd to 8th semesters under the 2024 scheme was presented and thoroughly discussed. The structure aligns with the National Education Policy (NEP) 2020, with emphasis on flexibility, interdisciplinary learning, industry relevance, and student-centric design.

BoS Member Comments:

- Members suggested adding more flexibility for interdisciplinary electives starting from the 5th semester.
- Dr. Madhu recommended including a Basic Electrical Engineering course that introduces students to components like accumulators and strain gauges.
- Dr. Pratab Nayaka proposed the introduction of a dedicated course on Technical Report Writing to enhance students' documentation and communication skills.

IQAC Considerations Addressed:

- Focus on holistic development through project-based and skill-oriented learning.
- Mapping aligned with NAAC, NBA, NEP 2020, and NSQF frameworks.

2. Discussion and Approval of the 3rd and 4th Semester Syllabus under the 2024 Scheme

The syllabus for the 3rd and 4th semesters under the 2024 scheme was reviewed in detail. The subjects have been updated to include practical elements, hands-on experience, and modern technological tools to promote skill development. Feedback from industry experts and alumni was incorporated in modifying course content and structure. The mapping of Course Outcomes (COs) with Program Outcomes (POs) was reviewed and revised for clarity and efficiency.

BoS Member Comments:

- Dr. Balakrishnan recommended adding the Reynolds Transport Theorem in 4th semester Fluid Mechanics course for strengthening theoretical knowledge.
- Dr. Balakrishnan recommended including a brief discussion of recent technological advancements during the first 10 minutes of each lecture.
- Dr. Madhu proposed to integrate topics on vibrations within the Aircraft Structures-1 course to encourage holistic learning.

- Dr. Balakrishnan proposed to highlight the contributions of Indian and foreign scientists to the field of aeronautics while discussing Indian knowledge systems.

IQAC integration:

- Curriculum alignment with POs and COs.
- Online and blended learning modules were included via platforms such as NPTEL and SWAYAM.
- Skill-based modules incorporated for improved employability.

3. Review and Reapproval of the 7th and 8th Semester Syllabus under the 2023 Scheme

The syllabi for the 7th and 8th semesters under the 2023 scheme were presented for reapproval. Minor corrections and enhancements suggested in the previous academic cycle were included, such as improved assessment mechanisms, updated reference materials, and better integration of practical and theoretical aspects.

BoS Member Comments:

- Dr. Nagaraj suggested using the textbook "Aircraft Performance and Stability" by J.D. Anderson for the Aircraft Design and Stability subjects.
- Dr. Balakrishnan suggested referring to 'History of Aerodynamics' by J D Anderson for the Aerodynamics subject.

4. Review and Reapproval of the 5th and 6th Semester Syllabus under the 2022 Scheme

The Board reviewed and reapproved the syllabi for the 5th and 6th semesters under the 2022 scheme after implementing all necessary corrections. The modifications included updated laboratory manuals, clearer course objectives, and revised course content to reflect current industry standards.

BoS Member Suggestions:

- Dr. Pratab recommended procuring SolidWorks software and providing formal training, as it is preferred by many small and medium-scale industries over CATIA.

5. Enhancements to Courses Aligned with Employability, Entrepreneurship, and Skill Development

A detailed discussion was held on subjects aligned with employability, entrepreneurship, and skill development across all schemes. It was decided to embed design thinking, project-based learning, and innovation-driven content into the curriculum from the 3rd semester onwards.

BoS and IQAC Suggestions:

- Dr. Pratab recommended showcasing the department's laboratory and infrastructural capabilities through posters and social media platforms to attract collaborations.
- He also advised organizing a Start-Up Conclave to highlight departmental strengths.
- Feedback from alumni and industry emphasized the need for programming modules and drone-related content.

6: Review of Value-Added Courses for the Academic Year 2025–2026

The proposed value-added courses for the academic year 2025–2026 were reviewed and approved. These courses aim to enhance students' technical, analytical, and professional skills beyond the regular curriculum.

Courses Approved:

- Technical Report Writing.
- Drone Technology.
- Measurements and Instrumentation
- Electricals and Electronics for sensor development

These courses will be offered through both in-house faculty and external industry trainers. Certification of completion will be awarded to eligible students.

7. Finalization of the Structure of Skill Development Courses for AY 2025–2026

The skill development course framework for the upcoming academic year was finalized. Each course will be designed with a mix of theoretical input, industry exposure, and hands-on training.

Courses Approved:

- Advanced CAAD
- Drone Pilot Training
- CAE
- Aeronautical Technical Publication

Key Decisions:

- Courses such as Power BI, MATLAB, Python for Engineering, and Design Thinking were recommended.

- Dr. Nagaraj emphasized reducing the workload of existing 1-credit courses for better depth of understanding.

8. Incorporation of Feedback from Industry Experts, Stakeholders, Alumni, and Academicians

The feedback received from various stakeholders was critically evaluated and integrated into the curriculum. Several actionable points were finalized:

Incorporated Suggestions:

- Introduction of a course on "Digitalization in Aeronautics" in the 5th semester.
- Integration of programming, drone technologies, and data visualization tools.
- Aptitude training and placement preparation to be formally included in the curriculum.
- Restructuring of the IPCC course to include module-wise experiments for clarity and improved learning outcomes.
- Implementation of four announced and four surprise quizzes per semester to improve engagement and assessment accuracy.

Conclusion

The meeting concluded with the approval of all agenda items and suggestions from IQAC and BoS members. It was resolved to:

- Implement the approved syllabi and schemes starting from the academic year 2025–2026.
- Form a review committee to monitor the implementation of curriculum enhancements.
- Schedule a follow-up meeting after one semester to assess the outcomes of the implemented changes.

The Chairperson expressed gratitude to all members for their valuable inputs and constructive discussions.

Meeting Adjourned at 1.30 PM
Prepared by: Dr. Tamilselvam Nallusamy, Member Secretary, BoS
Approved by: Dr. Bino Prince Raja D, Chairman-BoS

Attendance sheet

Name	Position	Signature
Dr.H B. Balakrishna	Special Invitee	
Dr. Latha Rajagopalan	Special Invitee	14/05/25
Dr. Bino Prince Raja D	Chairman	14/5/2025
Dr.N. Balakrishnan	VTU Nominee	
Dr Madhusudan A. Padmanabhan,	Industry Expert	A. Madhusudan
Dr. Prathapanayaka R	Industry Expert	
Dr.Nagaraja S R	Subject Expert	14/5/2025
Dr. Tamilselvam N	Member Secretary	14/5/25
Dr.Suresh C	Member	14/5/25
Dr. Maruthupandiyan K	Member	14/05/25
Dr. Paramesh T	Member	14/5/24
Ms. Rushika Jaishanker	Alumni Representative	— AB —

Action Taken Report (ATR)
Based on the Minutes of the Board of Studies Meeting
Date: 14.05.2025
Prepared by: Dr. Tamilselvam Nallusamy, Member Secretary-BoS

1. Approval of 3rd to 8th Semester Scheme (2024 Scheme)

Action Taken:

- The 3rd to 8th semester academic scheme was revised to align with NEP 2020, incorporating flexibility, industry-relevance, and student-centric learning.
- Provision for **interdisciplinary electives from the 5th semester** was included.
- A new course titled **"Electricals and Electronics for Sensor Development"** has been added as a value-added course in the 5th semester.
- A course on **"Technical Report Writing"** has been approved as a value-added course and integrated into employability training modules.

2. Approval of 3rd and 4th Semester Syllabus (2024 Scheme)

Action Taken:

- **Reynolds Transport Theorem** was incorporated into the 4th Semester Fluid Mechanics course.
- Faculty have been instructed to **include recent advancements** discussions in the first 10 minutes of each class.
- Topics on **vibrations** were embedded into the 4th Semester Aircraft Structures-1 syllabus.
- Contributions of Indian and foreign scientists have been included as part of the **Indian Knowledge Systems** component.
- Mapping of COs and POs revised and aligned with IQAC expectations.

3. Review of 7th and 8th Semester Syllabus (2023 Scheme)

Action Taken:

- The syllabi were reapproved with updates, including:
  - Enhanced assessment mechanisms.
  - Updated reference books, including:
    - "Aircraft Performance and Stability" by J.D. Anderson.
    - "History of Aerodynamics" by J.D. Anderson.

4. Review of 5th and 6th Semester Syllabus (2022 Scheme)

Action Taken:

- Corrections were incorporated, including updated lab manuals and clearer objectives.
- As the department currently holds a valid CATIA license and its design interface closely resembles that of SolidWorks, it has been decided to proceed with CATIA for the time being. The potential procurement of SolidWorks will be considered by the management based on future requirements and demand

5. Enhancements for Employability, Entrepreneurship, and Skill Development

Action Taken:

- **Design Thinking, project-based learning, and innovation-driven modules** have been embedded from the 1st semester.
- Drone and programming modules were added to technical and value-added courses.
- Department lab facilities are being showcased through **posters and social media campaigns**.

6. Value-Added Courses for AY 2025–2026

Action Taken:

- The following value-added courses were finalized:
  - Technical Report Writing
  - Drone Technology
  - Measurements and Instrumentation
  - Electricals and Electronics for Sensor Development
- Courses will be delivered by a mix of in-house and external trainers with certification provided upon completion.

7. Skill Development Course Structure Finalized

Action Taken:

- Finalized and integrated into the 5th–8th semester structure:
  - Advanced CAAD
  - CAE
  - Aeronautical Technical Publication
  - Drone Pilot Training

- Recommendations for **MATLAB, Python, Power BI, and Design Thinking** accepted and scheduled.
- Credit load of existing 1-credit courses optimized for deeper learning, as suggested.

8. Integration of Stakeholder Feedback

Action Taken:

- A new course titled **"Digitalization in Aeronautics"** has been introduced in the 5th semester as an elective.
- Programming, drone tech, and data visualization tools were embedded in core and skill-based courses.
- Aptitude and Placement Training will be conducted by the Placement Department. The Aeronautical Engineering Department will extend full support in coordinating and facilitating technical and domain-specific training activities.
- It was decided to retain the existing structure of the IPCC courses by placing the experiments at the end of the syllabus to enhance students' hands-on learning. Meanwhile, faculty members are advised to adopt integrated teaching methods to ensure better conceptual understanding and application.
- A system of **4 announced + 4 surprise quizzes** per semester implemented.

9. Post-Meeting Actions

Action Taken:

- An internal **Curriculum Review Committee** was already formed by the HoD to monitor implementation.
- A **follow-up review meeting** will be scheduled after one semester to assess outcomes and address challenges.

Conclusion:

All decisions and suggestions from the BoS and IQAC have been acted upon and integrated into the curriculum and academic planning of the Department of Aeronautical Engineering for implementation from AY 2025–2026.

15/5/2025

Member Secretary-BoS

26/5/2025

Chairman-BoS

Head of the Department
Dept. of Aeronautical Engineering
Global Academy of Technology
R.R. Nagar, Bengaluru - 560 098.

GLOBAL ACADEMY OF TECHNOLOGY

AN AUTONOMOUS INSTITUTE, ACCREDITED BY NAAC "A" GRADE
RAJARAJESHWARI NAGAR, BENGALURU – 560098
DEPARTMENT OF AERONAUTICAL ENGINEERING

14.05.2025
Bangalore

Academic Year 2025-26

Value Added Course (VAC)

Sl. No.	Course Name	Semester
1	Measurements and Instrumentation	3rd
2	Electrical and Electronics for sensor development	4th
3	Drone Technology & Applications	5th
4	Technical Report writing	6th

Skill Development Courses

Sl. No.	Course Name	Semester
1	Advanced CAD	3rd
2	Drone Pilot Training	4th
3	CAE	5th
4	Aero Tech Pub	6th

14/5/2025

BOS -Chairman

Head of the Department
Dept. of Aeronautical Engineering
Global Academy of Technology
R.R. Nagar, Bengaluru - 560 098.

List of courses having focus on employability / entrepreneurship/ skill development offered by the Department in the Academic year 2025-26

SL	Name of the course	Course Code	Employability	Entrepreneurship	Skill Development
1	Aviation Management	ANE23501	✓	✗	✗
2	Aircraft Structures -II	ANE23502	✓	✗	✗
3	High-Speed Aerodynamics	ANE23503	✓	✗	✗
4	Modelling and analysis lab	ANEL23504	✗	✗	✓
6	Mini Project	ANEP23506	✓	✓	✓
7	Research Methodology	RMIK23507	✓	✗	✗
8	Technical Authoring in Aircraft Manuals	ANE23510	✓	✗	✗
9	Aircraft Design	ANE23601	✓	✗	✗
10	Flight Mechanics	ANE23602	✓	✗	✗
11	Major Project Phase – I	ANEP23605	✗	✓	✗
12	Flight Simulation Lab	ANEL23606	✓	✗	✗
13	Aerospace Materials and Digital Manufacturing	ANE23307A	✓	✗	✗
14	Development of Soft Skills for Engineers	ANE23307B	✓	✓	✓
15	Ethics, Technology and Engineering	ANE23307C	✓	✓	✓
16	Digitalization in Aeronautics	ANE23307D	✓	✓	✗
17	Avionics and Systems	22ANE71	✓	✓	✗

18	Computational Fluid Dynamics	22ANE72	✓	✓	✓
19	Aircraft Design	22ANE73	✓	✓	✓
20	Aircraft Maintenance, Repair, and Overhaul	22ANE74A	✓	✗	✗
21	Wind Tunnel Techniques	22ANE74B	✓	✗	✗
22	Theory of Vibration	22ANE74C	✓	✓	✓
23	Civil Aviation Rules and Regulation	22ANE74D	✗	✗	✓
24	Drone Technology	22ANE75A	✗	✗	✓
25	Air Traffic and Weather	22ANE75B	✓	✗	✗
26	Space Technology	22ANE75C	✓	✓	✗
27	Aviation and Internet Infrastructure	22ANE75D	✓	✓	✗
29	Mechanics of Materials	BAE24302	✗	✗	✓
30	Fluid Mechanics	BAE24303	✓	✓	✗
31	Aero Engineering Thermodynamics	BAE24304	✓	✓	✗
32	CAAD Lab	BAEL24305	✗	✗	✓
33	AI & ML in Aerospace Engineering	BAE24306A	✗	✗	✓
34	Development of Soft Skills for Engineers	BAE24306B	✗	✗	✓
35	Ethics, Technology and Engineering	BAE24306C	✗	✗	✓
36	Data Analytics Using Power BI	BAE24306D	✗	✗	✓
37	Aerospace Materials and Digital Manufacturing	BAE24358A	✗	✗	✓
38	IoT and Smart Sensors in Aviation	BAE24358B	✗	✗	✓
39	Digitalization in Aeronautics	BAE24358C	✗	✗	✓
40	Sustainable Aviation & Green Technologies	BAE24358D	✗	✓	✓

41	Aircraft Propulsion	BAE24402	✓	✗	✗
42	Low Speed Aerodynamics	BAE24403	✓	✗	✗
43	Aircraft Structures-I	BAE24L404	✓	✗	✗
44	Low Speed Aerodynamics Lab	BAE24405	✓	✓	✓
45	MATLAB for Aeronautics	BAE24457A	✓	✓	✓
46	Technical Communication and Research Skills	BAE24457B	✗	✗	✓
47	Python for Aerodynamics & Flight Simulation	BAE24457C	✗	✗	✓
48	Introduction to Augmented Reality	BAE24457D	✗	✓	✓
49	Aircraft Control Engineering	BAE24406A	✓	✓	✓
50	Additive Manufacturing and Smart Materials	BAE24406B	✗	✓	✓
51	Aerospace Cyber Security & Secure Avionics Systems	BAE24406C	✗	✓	✓
52	Electric and Hybrid Propulsion	BAE24406D	✓	✗	✓

14/5/2025

Chairman-BoS
Head of the Department
Dept. of Aeronautical Engineering
Global Academy of Technology
R.R. Nagar, Bengaluru - 560 098.

Department of Artificial Intelligence and Data Science

Global Academy of Technology
An Autonomous Institution Affiliated to Visvesvaraya Technological University, Belgavi
Approved by UGC, AICTE and Govt. of Karnataka
NBA Accredited CSE, CV, ECE, EEE, ISE and ME Programmes

Department of Artificial Intelligence and Data Science

BoS members (2024-25)

Sl. No	Designation	Name	Affiliation	E-Mail ID & Contact No.
1.	Chairman	Dr. Ashwini Kodipalli	Associate Professor and Head	hodads@gat.ac.in +91 9663332643
2.	Subject Expert 1 (Machine Learning and Deep Learning)	Dr. Shekhar Verma	Professor and Dean, IIIT Allahabad	sverma@iiita.ac.in +91 9450965336
3.	Subject Expert 2 (Big Data)	Dr. Sonali Agarwal	Associate Professor, IIIT Allahabad	sonali@iiita.ac.in +91 9415647042
4	Subject Expert 3 (Natural Language Processing)	Dr. Muneendra Ojha	Assistant Professor, IIIT Allahabad	muneendra@iiita.ac.in +91 9899364673
5	VTU Nominee	Dr. Susheela V Devi	Principal Research Scientist, IISc, Bangalore	susheela@iisc.ac.in +91 9480436301
6	Industry Representatives	Mr. Raja Krishna Murthy	Director, Design and Development, CTS	rajakc@gmail.com +91 8861204050
		Ms. S. Preethi	SAP Labs	spreethiraja@gmail.com +91 9972045004
7	Alumni	Mr. Yathish	Consenso Labs	123yathish.r@gmail.com +91 7892276291
8	Member Convenor	Prof. Trupthi Rao	Assistant Professor, GAT	trupthirao@gat.ac.in + 91 9902830077
9	Member	Prof. Rohini B R	Assistant Professor, GAT	rohini.br@gat.ac.in +91 9886136322
10	Member	Prof. Vijay Narasimhamurthy	Associate Professor, GAT	vijayn@gat.ac.in +91 9980391414
11	Invited Member	Dr. N Ranapratap Reddy	Principal, GAT	principal@gat.ac.in +91 9591510211
12	Invited member	Dr. Rajashekar Swamy	Dean Academics, GAT	rajashekarswamy@gat.ac.in +91 8095503309

HoD (Chairman - BOS)

Dean

Principal

Head of the Department
Dept. of Artificial Intelligence & Data Science
Global Academy of Technology
Bengaluru - 560 098.

Dean Academic
Global Academy of Technology,
Rajarajeshwarinagar, Bengaluru-98

Outlook

BoS meeting scheduled on 19th August 2024 from 11:30 AM

From Dr. Ashwini K <dr.ashwini.k@gat.ac.in>
Date Tue 8/06/2024 3:58 PM
To sverma <sverma@iiita.ac.in>; Sonali Agarwal <sonali@iiita.ac.in>; 123yathish.r@gmail.com <123yathish.r@gmail.com>; Susheela V Devi <susheela@iisc.ac.in>; Dr. Vishal Krishna Singh <vks@iiitl.ac.in>

5 attachments (1 MB)

5th Semester_Complete Syllabus.docx; 6th Semester_Complete Syllabus.docx; 7th Semester_Complete Syllabus.docx; 8th Semester_Complete Syllabus.docx; Scheme(III to VIII Sem)-2023.doc; Introduction_to_AI.docx; 3rd Semester_Complete Syllabus.docx; 4 Semester_Complete Syllabus.docx

Respected Sir/Madam,

Greetings from Global Academy of Technology!!

I thank you for accepting the invitation to be a part of the Board of Studies for the department of Artificial Intelligence and Data Science.
Considering the availability of all the members of the committee, the department has scheduled **the online BoS meeting on 19th August 2024 to finalize 5th to 8th semester syllabus of 2022 batch, 1st semester Introduction to AI syllabus, the scheme for 2023 batch, 3rd and 4th semester syllabus of 2023 batch**. I request you to join the meeting as your suggestions help in bringing the best syllabus.

The **syllabus of 5th to 8th semesters and the scheme is attached with this mail for your reference.** Requesting you to kindly join the meeting.

Please find the meeting link below.

https://teams.microsoft.com/l/meetup-join/19%3ameeting_YzBiZTVkYWItM2JiNi00ZDkzLWJiMjEtNDMyODIyODFiNmI3%40thread.v2/0?context=%7b%22Tid%22%3a%227b887c76-d8d8-4448-9bf5-a51820345eb4%22%2c%22Oid%56%8a%221d9a971b-c88e-4042-93d4-69493d6199fd%67%7e

Thank you

Regards
Dr. Ashwini Kodipalli
Professor and Head
Department of AI & Data Science
Global Academy of Technology
Bangalore
+91 9663332643

Join conversation

teams.microsoft.com

Proceedings of the Board of Studies Meeting in Artificial Intelligence & Data Science.

As per the VTU autonomous guidelines and directions from the Principal and Dean (Academic) of the Global Academy of Technology. Board of Studies Meeting was held on 19th August 2024 at 11:30 AM in the Online Mode using Microsoft Teams.

The following members attended the meeting:

1	Dr. Ashwini Kodipalli	Chairman
2	Dr. Shekhar Verma	Subject Expert 1
3	Dr. Sonali Agarwal	Subject Expert 2
4	Dr. Muneendra Ojha	Subject Expert 3
5	Dr. Susheela V Devi	VTU Nominee
6	Mr. Raja Krishna Murthy Ms. S. Preethi	Industry Representatives
7	Mr. Yathish	Alumni
8	Prof. Trupthi Rao	Member Convenor
9	Prof. Rohini B R	Member
10	Prof. Vijay Narasimhamurthy	Member
11	Dr. N Ranapratap Reddy	Invited Member
12	Dr. Rajashekar Swamy	Invited Member

The following are the minutes of the meeting:

- The meeting commenced in an online format with a warm welcome and an introduction of the Board of Studies (BoS) members by Dr. Ashwini Kodipalli, Head of the Department of Artificial Intelligence and Data Science (AI & DS).
- Dr. Ashwini Kodipalli, in her capacity as Professor and Head of the Department, also presented the agenda for the meeting.
- The corrective actions for the 2021 and 2022 syllabi were incorporated into the respective academic schemes. These modifications were based on suggestions from stakeholders and BoS members during the previous BoS meeting held on 30th September 2023.
- As a result:
    - Economics and Management for Data Science, Computer Networks, and Object-Oriented Programming with JAVA, Research Methodology, and Intellectual Property Rights (IPR) were included in the curriculum for the 2022 and 2023 batches, respectively.
    - It was recommended that mathematics-related subjects should be completed by the 4th semester.
    - The Computer Networks subject, which is part of the Networking basket, was introduced into the 2021 and 2022 curriculum

- The lists of courses revised from the previous 2021 and 2022 scheme were presented and approved.
- The Syllabus of 2023 scheme from III – VIII was discussed.
- First year subject- Introduction to AI, offered by the department for 2024 batch has been presented and approved with no changes.
- A list of courses, focussing on Employability, Entrepreneurship, and Skill development was incorporated for the 2023 scheme.
- The members of the BOS have suggested modifications and the suggestions are as follows for batch 2023.
  1) Batch of 2023 studied C and Advanced C as their first year subjects and Python programming was not part of their first year curriculum hence basics of Python should be added to their Python for Data Science subject in the 2nd year.
  2) Machine Learning I and II should be reintroduced as Statistical Machine Learning with slight modifications in the syllabus.
  3) Considering the importance of Cryptography and Cyber Security; networking subjects should be included as a core in their curriculum.
  4) As per the industry requirements, Object Oriented concepts and Java Programming language should be added in the lower semesters.
  5) Full Stack Web Development and Mobile Application Development should be added as value added program and workshop respectively as it is more hands on oriented subjects.
  6) More Emphasis to be given on Project based learning hence number of subjects in 8th semester can be reduced following the VTU norms.
  7) VTU Nominee has suggested that scheme and syllabus should be aligned with VTU syllabus.
- The suggestions from all the members were recorded individually and finalized.
- Finally all the members authorized the chairman to incorporate changes suggested in the syllabus and approved the same.
- The meeting ended with a vote of thanks.

19/8/24

Chairman-BOS, HOD-AI&DS, GAT

Head of the Department
Dept. of Artificial Intelligence & Data Scie
Global Academy of Technology
Bengaluru - 560 098.

GLOBAL ACADEMY OF TECHNOLOGY
Affiliated to VTU, Recognized by GOK, Approved by AICTE
(NBA Accredited (UG - CSE, ECE, ISE, EEE, MECH)
Aditya Layout, Ideal Homes Bengaluru - 560 098
www.gat.ac.in
DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

CONSOLIATED PROCEEDINGS OF BoS

Held on
21st May 2025 at 10:30 am in Board Room

Members present:

Faculty members from Global Academy of Technology:

1. Dr. Girish Rao Salanke, Professor & Head, Department of Artificial Intelligence and Data Science.
2. Dr. Ugranada Channabasava, Assoc. Professor, Department of Artificial Intelligence and Data Science.
3. Prof. Harish L, Assistant Professor, Department of Artificial Intelligence and Data Science.

Subject Experts from outside the college nominated by Academic council:

1. Dr. Ashok Kumar A R, Professor, Dept. of CSE, RVCE.
2. Mr. Kavi Arasu, Deputy General Manager, Continental Pvt. Ltd

Subject experts (VTU Nominee):

1. Dr. Manjunath T K, Professor. & Head, AI&DS, KSSEM.

Special invitees:

1. Dr.Latha Rajagopalan, Dean Academics,Global Academy of Technology, Bangalore.
2. Miss Impana, Alumni , Department of Artificial Intelligence and Data Science, Global Academy of Technology, Bangalore.

Leave of Absence:

The following members have requested permission to attend the meeting online and be granted leave of absence due to prior commitments and other pressing engagements.

1. Dr. Varun Gopi, Assoc. Prof., NIIT, Trichy.
2. Dr. Dinesh Naik, Assoc. Prof, NITK , Surathkal.
3. Dr. Anjan Krishnamurthy, Assoc. Director, SISA Pvt. Ltd.
4. Mr. Satvik Satish, Alumni, Department of Artificial Intelligence and Data Science, Global Academy of Technology, Bangalore.

Head of the Department
Dept. of Artificial Intelligence & Data Science
Global Academy of Technology
Bengaluru - 560 098.

Dean Academic
Global Academy of Technology,
Rajarajeshwarinagar, Bengaluru-98

Principal
Global Academy of Technology
R.R. Nagar, Bangalore - 98.

GLOBAL ACADEMY OF TECHNOLOGY
Affiliated to VTU, Recognized by GOK, Approved by AICTE
(NBA Accredited (UG - CSE, ECE, ISE, EEE, MECH)
Aditya Layout, Ideal Homes Bengaluru - 560 098
www.gat.ac.in
DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

This draft minutes of the meeting is being circulated to all the members of the BoS to invite their comments.

The Chairman, BoS welcomed all the BoS members. He also mentioned about the inclusion of special invitee's (mentioned above) in the meeting. He presented Agenda No.1 to 2, to the BoS members.

Agenda for the BoS meeting:

1. Approval of the 2024 Scheme for 3rd to 8th Semesters.
2. Approval of the 2024 Syllabus for 3rd and 4th Semesters.

Minutes of the Meeting in BoS:

Approval of the 2024 Scheme (3rd to 8th Semesters) and the 2024 Syllabus (3rd and 4th Semesters)

III Semester

- The BoS members recommended renaming the subject title from 'Python for Data Science' to 'Data Science with Python'.(Dr. Anjan Krishnamurthy)
- It was proposed to swap the subject 'Introduction to Data Mining' from the 3rd semester with 'Computer Organization and Architecture' from the 4th semester.(Dr. Ashok Kumar and Dr. Manjunath T K)
- It was suggested to replace the AEC subject (MERN) in 3rd semester with a foundational course such as 'Basics of Web Technology' or 'Basics of Java'.(Mr. Kavi Arasu V)
- It was suggested that core subjects should not be included under Emerging Technology Courses / Programming Language Courses (ETC/PLC) or Ability Enhancement Courses (AEC).(Overall opinion)

IV Semester

- The BoS members proposed changing the subject title from 'Statistical Machine Learning' to 'Machine Learning-1'.(Mr. Kavi Arasu)
- The suggestion was made to substitute the AEC subject 'Object Oriented Programming with Java' in the 4th semester with a course covering 'Spring Boot'.(Dr. Varun Gopi)
- It was suggested to increase the number of teaching hours from 1 hour to 2 hours for Biology for Engineers(Dr. Manjunath T K)

Head of the Department
Dept. of Artificial Intelligence & Data Scier
Global Academy of Technology
Bengaluru - 560 098.

23/05/25
Dean Academic
Global Academy of Technology,
Rajarajeshwarinagar, Bengaluru-98

Principal
Global Academy of Technology
R.R. Nagar, Bangalore 98.

GLOBAL ACADEMY OF TECHNOLOGY
Affiliated to VTU, Recognized by GOK, Approved by AICTE
(NBA Accredited (UG - CSE, ECE, ISE, EEE, MECH)
Aditya Layout, Ideal Homes Bengaluru - 560 098
www.gat.ac.in
DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

V Semester

- A suggestion was made to change the subject title from 'Database Management Systems' to 'Database Design'.(Dr. Anjan Krishnamurthy)
- It was suggested to include concepts of NoSQL and VectorDB in the Database subject.(Dr. Varun Gopi)
- Cloud Computing should be included as a core subject with a practical-oriented approach.(Ms. Impana and Mr. Kavi Arasu)
- Recommendation to include a Full Stack Web Development course.(Dr. Dinesh Naik)
- It was recommended to include Deep Neural Networks as a core subject.(Dr. Anjan Krishnamurthy and Mr. Sathwik Satish)
- Basics of Natural Language Processing should be incorporated into the Machine Learning-2 course.(Dr. Ashok Kumar A R)

VI Semester

- The BoS members proposed changing the subject title from 'Software Engineering with Agile Technology' to 'Software Engineering with Agile Methodologies'.(Mr. Kavi Arasu V)
- Natural Language Processing (NLP) was proposed as a subject by the BoS members before the inclusion of Generative AI into the syllabus(Dr. Manjunath T K and Dr. Ashok Kumar A R)

VII/VIII Semester

- The BoS members recommended the addition of advanced subjects—namely UI/UX, Edge Computing, and Conversational UI—to the elective offerings in the VII and VIII semesters(Dr. Anajan Krishnamurthy and Mr. Kavi Arasu V)
- The inclusion of DevOps and MLOps as subjects was recommended to align the curriculum with modern software development and deployment methodologies(Mr. Kavi Arasu, Mr. Sathwik and Ms. Impana)

The Bos members gave their approval for 3rd and 4th semester scheme and syllabus and suggested the following above-mentioned changes to be incorporated for the higher semester courses. The meeting concluded with the Chairman thanking the members for their valuable inputs and suggestions.

Dr Girish Rao Salanke N S
Chairman - Board of Studies
Professor & Head AI&DS Department

Head of the Department
Dept. of Artificial Intelligence & Data Science
Global Academy of Technology
Bengaluru - 560 098.

Dean Academic
Global Academy of Technology
Rajarajeshwari Nagar, Bengaluru-98

Principal
Global Academy of Techn
R.R. Nagar, Bangalore

Department of Artificial Intelligence and Machine Learning

GLOBAL ACADEMY OF TECHNOLOGY
An Autonomous Institute, Affiliated to VTU Belagavi,
Approved by AICTE, Accredited by NAAC,'A' Grade,
Ideal Homes Township, Raja Rajeshwari Nagar, Bengaluru – 560 098
Tel: +91 80 28603158 Email: hodaiml@gat.ac.in Web: www.gat.ac.in

Department of Artificial Intelligence & Machine Learning

4th BOARD OF STUDIES MEETING

Minutes of Meeting

ACADEMIC YEAR 2023-2024

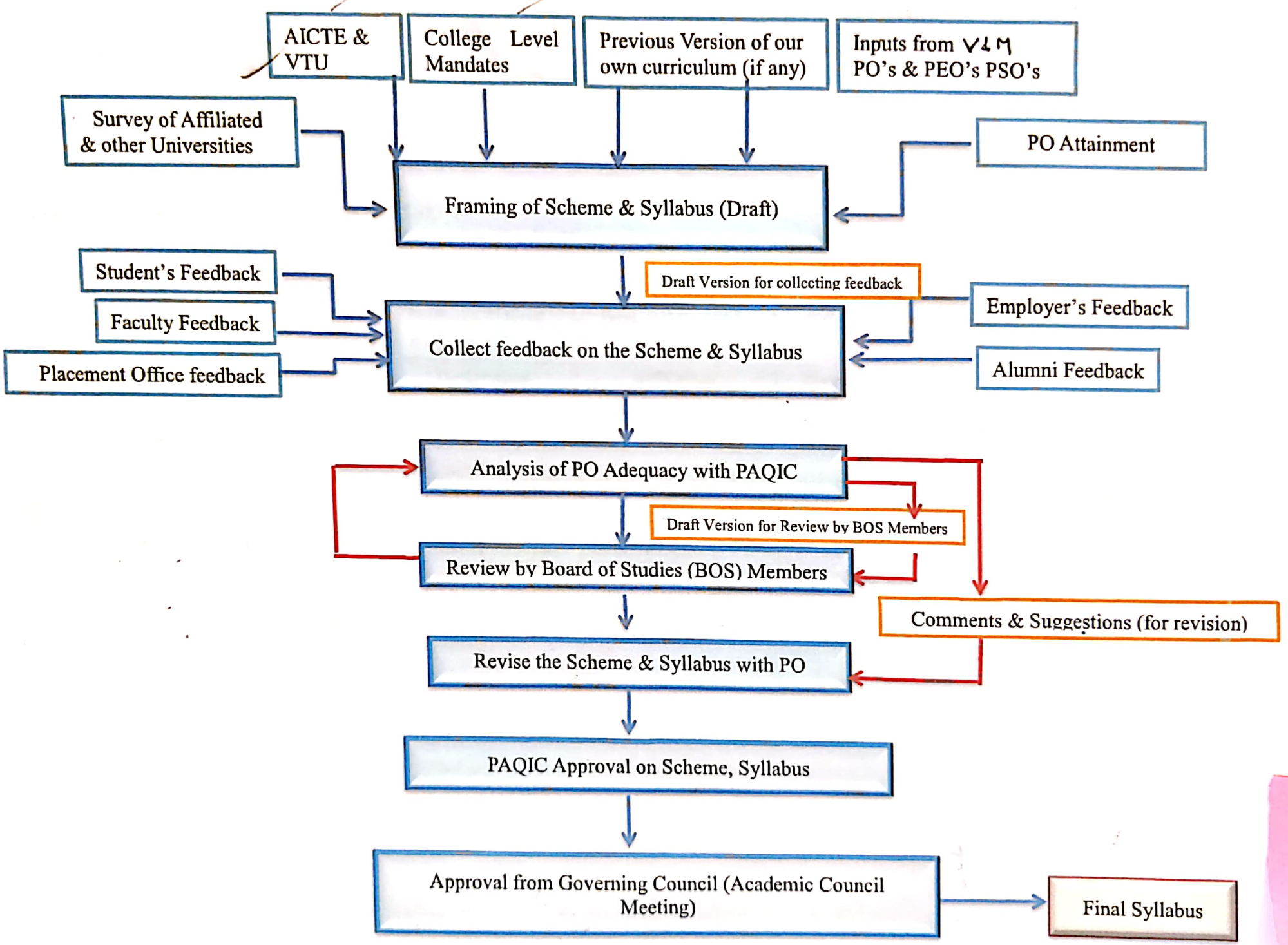
Date : 26/07/2024

Venue : Conference Hall, Placement Block, GAT.

Time : 9:30 AM – 10:30 AM

Sl. NO	PARTICULARS	PAGE NO
1.	Agenda of the Meeting	
2.	List of Members	
3.	List of Members Present	
4.	Minutes of Meeting	

Autonomous Syllabus Framing Process



GLOBAL ACADEMY OF TECHNOLOGY

An Autonomous Institute, Affiliated to VTU Belagavi,
Approved by AICTE, Accredited by NAAC,'A' Grade,
Ideal Homes Township, Raja Rajeshwari Nagar, Bengaluru – 560 098
Tel: +91 80 28603158 Email: hodaiml@gat.ac.in Web: www.gat.ac.in

Department of Artificial Intelligence & Machine Learning

BOARD OF STUDIES – 2024

Date: 26/07/2024

Designation	Name
Chairman	**Dr. Roopa B S** Professor & HoD
Academic Experts	
Subject Expert 1 (VTU Nominee)	**Dr. Sudarshan Iyenger** Professor & HoD, Department of CSE, IIT Ropar.
Subject Expert 2	**Dr. M Dakshayini** Professor, Department of ISE, BMSCE.
Industry Experts	
Industry Expert 1	**Mr.Ritesh Sreenivasan** Educational Youtuber, Former Scientist, Philips.
Industry Expert 2	**Mr. Sachin Shivkhalimath** Senior Manager, Data Scientist, Genpact
Member Convener	Prof. Vasugi I
Member	Prof. C Christlin Shanuja
Member	Prof. Udayaprasad P K
Member	Prof. Srinath K S
Invited Member	
Invited Member	**PRINCIPAL**
Invited Member	**DEAN**

25/7/24

HOD
Professor & Head
Dept. of Artificial Intelligence
& Machine Learning
Global Academy of Technology
Bengaluru

Dean
Dean Academic
Global Academy of Technology,
Rajarajeshwarinagar, Bengaluru-98

Principal
PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

GLOBAL ACADEMY OF TECHNOLOGY

An Autonomous Institute, Affiliated to VTU Belagavi,
Approved by AICTE, Accredited by NAAC,'A' Grade,
Ideal Homes Township, Raja Rajeshwari Nagar, Bengaluru – 560 098
Tel: +91 80 28603158 Email: hodaiml@gat.ac.in Web: www.gat.ac.in

Department of Artificial Intelligence & Machine Learning

LIST OF MEMBERS PRESENT

BOARD OF STUDIES – 2024

Designation	Name	Signature
Chairman	**Dr. Roopa B S** BoS Chairman, HoD, AI& ML	
Academic Experts		
Subject Expert 1 (VTU Nominee)	**Dr. Sudarshan Iyenger** Professor & HoD, Department of CSE, IIT Ropar.	ONLINE
Subject Expert 2	**Dr. M Dakshayini** Professor, Department of ISE, BMSCE.	ONLINE
Industry Experts		
Industry Expert 1	**Mr.Ritesh Sreenivasan** Educational Youtuber, Former Scientist, Philips.	ONLINE
Industry Expert 2	**Mr. Sachin Shivkhalimath** Senior Manager, Data Scientist, Genpact	ONLINE
Member Convener	Prof. Vasugi I	
Member	Prof. C Christlin Shanuja	
Member	Prof. Udhayaprasad P K	
Member	Prof. Srinath K S	
Invited Member		
Invited Member	**PRINCIPAL**	
Invited Member	**DEAN**	

PRINCIPAL
Global Academy of Technology
Ideal Homes Township
Rajarajeshwari Nagar, Bangalore-560 098

1. Summary

Meeting title	BOS MEETING AI&ML 2023 SCHEME & SYLLABUS 26-7-2024
Attended participants	5
Start time	7/26/24, 9:05:13 AM
End time	7/26/24, 10:04:46 AM
Meeting duration	59m 33s
Average attendance time	27m 53s

2. Participants

Name	First Join	Last Leave
Department of AIML	7/26/24, 9:05:16 AM	7/26/24, 10:04:46 AM
Sudarshan IyengarDP (Unverified)	7/26/24, 9:32:12 AM	7/26/24, 9:47:27 AM
Sachin Shivakalimath (Unverified)	7/26/24, 9:36:04 AM	7/26/24, 10:02:38 AM
Dr. M Dakshayini (Unverified)	7/26/24, 9:37:09 AM	7/26/24, 10:04:45 AM
Sudarshan IyengarDP (Unverified)	7/26/24, 9:48:13 AM	7/26/24, 9:58:50 AM

3. In-Meeting Activities

Name	Join Time	Leave Time
Department of AIML	7/26/24, 9:05:16 AM	7/26/24, 10:04:46 AM
Sudarshan IyengarDP (Unverified)	7/26/24, 9:32:12 AM	7/26/24, 9:47:27 AM
Sachin Shivakalimath (Unverified)	7/26/24, 9:36:04 AM	7/26/24, 10:02:38 AM
Dr. M Dakshayini (Unverified)	7/26/24, 9:37:09 AM	7/26/24, 10:04:45 AM
Sudarshan IyengarDP (Unverified)	7/26/24, 9:48:13 AM	7/26/24, 9:58:50 AM

In-Meeting Duration	Email	Participant ID (UPN)	Role
59m 29s	hodaiml@gat.ac.in	hodaiml@gat.ac.in	Organizer
15m 14s			Presenter
26m 33s			Presenter
27m 35s			Presenter
10m 36s			Presenter

Duration	Email	Role
59m 29s	hodaiml@gat.ac.in	Organizer
15m 14s		Presenter
26m 33s		Presenter
27m 35s		Presenter
10m 36s		Presenter

AGENDA FOR THE MEETING

1. Welcome address by the chairman of the BoS.
2. Presentation of Scheme & Syllabus of 2023 with the implementation given by the BoS Members.
3. Approval of Scheme & Syllabus of 2023.
4. Vote of thanks by Chairman of BoS.

GLOBAL ACADEMY OF TECHNOLOGY

An Autonomous Institute, Affiliated to VTU Belagavi,
Approved by AICTE, Accredited by NAAC,'A' Grade,
Ideal Homes Township, Raja Rajeshwari Nagar, Bengaluru – 560 098
Tel: +91 80 28603158 Email: hodaiml@gat.ac.in Web: www.gat.ac.in

Department of Artificial Intelligence & Machine Learning

Minutes of the Meeting- Board of Studies – 2024

Meeting Title: Board of Studies	Date & Time : 26/07/2024, 9:30 AM to 10:30 AM	Venue: Virtual & MS Teams
Meeting Intent: To present the Scheme & Syllabus of 2023 with the BoS Team for scrutiny and approval.		
Meeting facilitator: Dr. Roopa B S, BoS Chairman,Head, AI&ML, GAT		
Meeting Attendees		
Industry Experts	Internal Members	Academic Experts
1. Mr.Ritesh Sreenivasan, Former Scientist, Philps. 2. Mr. Sachin Shivkhalimath, Data Scientist, Genpact	3. Dr. Roopa B S, Prof, AI&ML, GAT 4. Prof. Vasugi I,, Asst.Prof, AI&ML, GAT 5. Prof. C Christlin Shanuja, Asst.Prof, AI&ML, GAT 6. Prof. UdayaPrasad, Asst.Prof, AI&ML, GAT 7. Prof.Srinath K S, Asst.Prof, AI&ML, GAT	8. Dr. Sudarshan Iyenger, Prof & Head, CSE, IIT Ropar. 9. Dr. M Dakshayini, Prof, ISE, BMSCE

Meeting Proceedings

At the outset BoS Chairman of AI&ML dept, Dr.Roopa B S, introduced and welcomed all the members of the board. Dr.Roopa B S briefed about the highlights of the syllabus which continued on the detailed discussion. The following are the comments received.

The proposed Scheme & Syllabus of 2023 is approved by the experts. The following are the observations and feedback provided by the BoS team.

Suggestions by Dr. Sudarshan Iyenger

- With regards to the framed syllabus, there are no corrections suggested.
- He appreciated the entire team for framing the syllabus as per the suggestions provided earlier and incorporating MLT,MLP & MLF into the curriculum.
- He suggested to use standard textbooks for all the subjects and refer video resources available at IIT websites.
- FDP's on MLOps can be arranged for the skill upgradation of faculty.

Suggestions by Dr. M Dakshayini

- Since all the previous suggestions were incorporated in this curriculum, the framed syllabus was appreciated.

Suggestions by Mr. Sachin Shivkhalimath

- Appreciated the framed syllabus and it is good to continue.
- Suggested to provide and evaluate assignments so that, students can solve it in class to improve Writing Skill.
- Suggested to assign mini-projects, that can enhance students understanding the concepts taught in the classroom.
- Workshops can be planned on subjects like operational research, Time series and linear regression for AIML perspective.

We thank the external experts for the invaluable suggestions and expertise. The insights derived have been incredibly helpful.

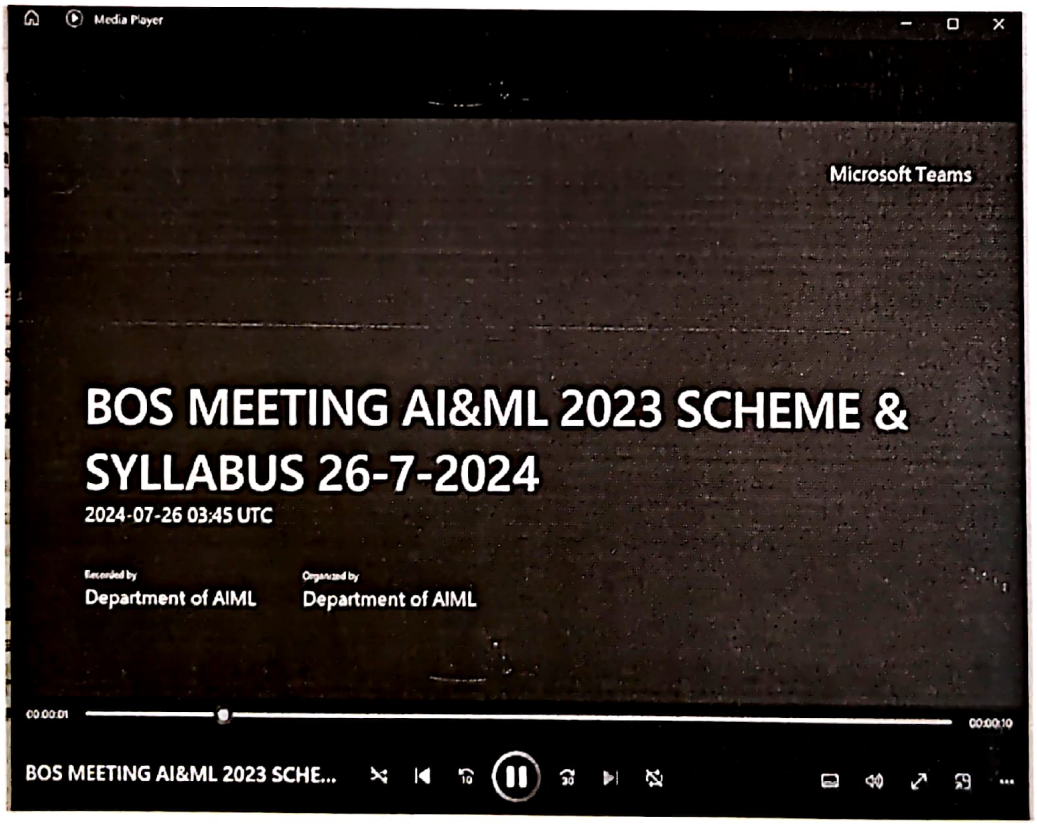
Dr. Roopa B S, BoS Chairman, HOD of AI&ML thanked all the members for their kind cooperation and the meeting came to an end.

BoS Chairman
Dept. of AI & ML

PRINCIPAL Principal
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

GALLERY-BOS MEETING 26-7-2024 FOR 2023 SCHEME & SYLLABUS

BOS MEETING FOR 2023 SCHEME AND SYLLABUS 26-7-2024 AT 9:30AM
https://teams.microsoft.com/l/meetup-join/19%3ameeting_NzIxMGVmNjItODdmYS00ODM3LWI3MjUtZjE0ZmE5YTdmZDIw%40thread.v2/0?context=%7b%22Tid%22%3a%227b887c76-d8d8-4448-9bf5-a51820345eb4%22%2c%22Oid%22%3a%224e5a707d-8f9b-4962-805a-abc912c9fff3%22%7d



26/7/24

HOD, AI&ML

Professor & Head
Dept. of Artificial Intelligence
& Machine Learning
Global Academy of Technology
Bengaluru

CLO2	Acquaint students with symmetric matrices, singular value decomposition (SVD), and principal component analysis (PCA) in image processing
CLO3	Equip students with a comprehensive understanding of unconstrained optimization techniques and convex optimization principles, focusing on gradient descent methods and their applications.
CLO4	Provide students with a deep understanding of constrained optimization, Lagrange multipliers, logistic regression, regularization techniques, and model evaluation metrics.
CLO5	Equip students with a comprehensive understanding of the exponential family of distributions, parameter estimation methods, and the Expectation Maximization algorithm.

Module 1	No. of Hours	RBT Level
Introduction to machine learning. Linear Algebra - Least Squares Regression: Introduction to Least Squares Regression, Vectors and vector spaces, Matrices and matrix operations, Inner product and orthogonality, Formulating the Least Squares Problem, Solving the Least Squares Problem. Linear Algebra - Eigenvalues and eigenvectors. **Software Implementation:** Using Python libraries (NumPy, SciPy, scikit-learn)	10	L2
Module 2		
Linear Algebra - Symmetric matrices: Introduction to Symmetric Matrices, Properties of Symmetric Matrices, Computation with Symmetric Matrices, Linear Algebra - Singular value decomposition: Introduction to Singular Value Decomposition, Properties and Interpretation of SVD, Applications of SVD, Principal Component Analysis in Image Processing: Introduction to Principal Component Analysis, Steps in PCA, PCA for Image Processing **Software Implementation:** Using Python libraries (NumPy, SciPy) for computations with symmetric matrices, SVD	10	L3
Module 3		
Unconstrained Optimization: Introduction to Unconstrained Optimization, First-Order Optimization Methods- Gradient Descent, Variants of Gradient Descent, Convex sets, functions and optimization problems: Introduction to Convexity, Convex Sets, Applications of Convex	10	L3

AI & ML_Scheme (III to | ALL 3rd - 8th sem syllab | one sheet aiml syllabus | one sheet aiml syllabus | one sheet aiml syllabus
File | D:/BOS/ALL%203rd%20-%208th%20sem%20syllabus.pdf
Ask Copilot 13 of 134

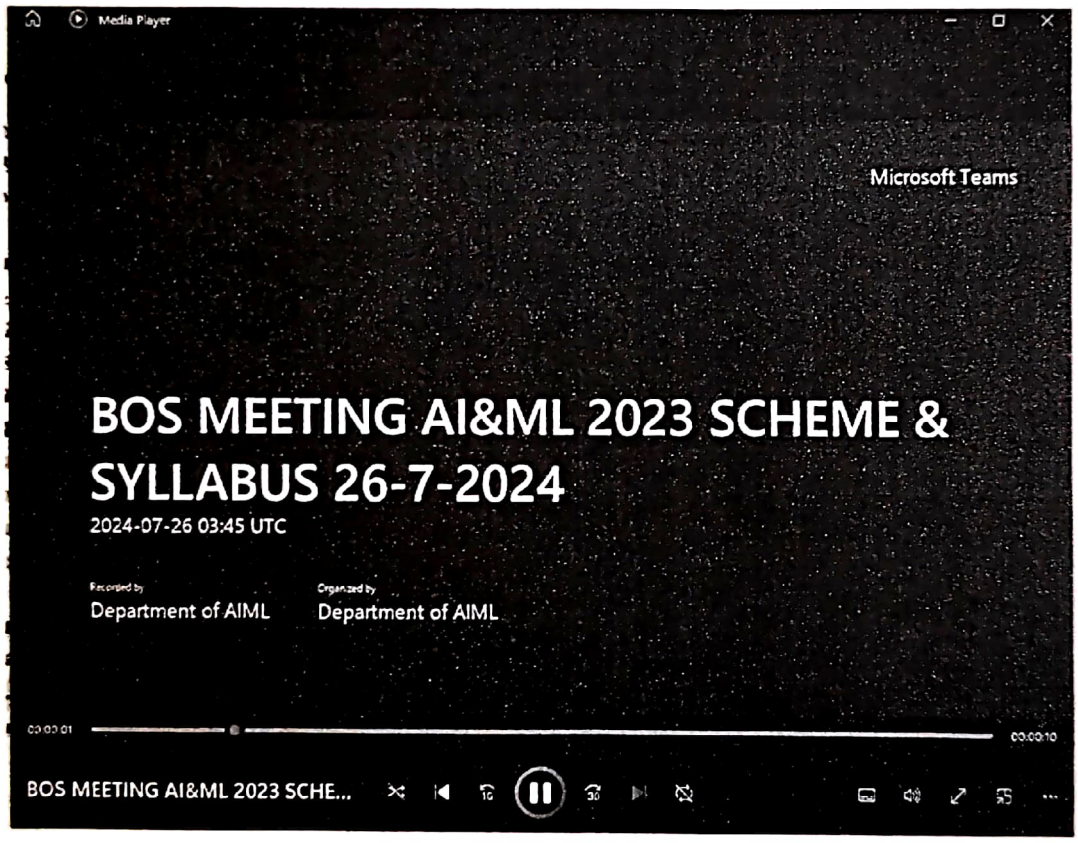
CLO5	Equip students with a comprehensive understanding of the exponential family of distributions, parameter estimation methods, and the Expectation Maximization algorithm.

Module 1	No. of Hours	RBT Level
Introduction to machine learning, Linear Algebra - Least Squares Regression: Introduction to Least Squares Regression, Vectors and vector spaces, Matrices and matrix operations, Inner product and orthogonality, Formulating the Least Squares Problem, Solving the Least Squares Problem. Linear Algebra - Eigenvalues and eigenvectors. **Software Implementation:** Using Python libraries (NumPy, SciPy, scikit-learn)	10	L2
Module 2		
Linear Algebra - Symmetric matrices: Introduction to Symmetric Matrices, Properties of Symmetric Matrices, Computation with Symmetric Matrices, Linear Algebra - Singular value decomposition: Introduction to Singular Value Decomposition, Properties and Interpretation of SVD, Applications of SVD, Principal Component Analysis in Image Processing: Introduction to Principal Component Analysis, Steps in PCA, PCA for Image Processing **Software Implementation:** Using Python libraries (NumPy, SciPy) for computations with symmetric matrices, SVD	10	L3
Module 3		
Unconstrained Optimization: Introduction to Unconstrained Optimization, First-Order Optimization Methods- Gradient Descent, Variants of Gradient Descent, Convex sets, functions and optimization problems: Introduction to Convexity, Convex Sets, Applications of Convex Optimization (SVM). **Software Implementation:** Using Python libraries (SciPy, TensorFlow, PyTorch) for optimization	10	L3
Module 4		

Department of AI
Sachin Shivakalim
Dr. M Dakshay
Sudarshan Iye
Search
ENG IN 09:51 26-07-2024
17:50 / 31:32

GALLERY-BOS MEETING 26-7-2024 FOR 2023 SCHEME & SYLLABUS

BOS MEETING FOR 2023 SCHEME AND SYLLABUS 26-7-2024 AT 9:30AM
https://teams.microsoft.com/l/meetup-join/19%3ameeting_NzIxMGVmNjItODdmYS00ODM3LWI3MjUtZjE0ZmE5YTdmZDIw%40thread.v2/0?context=%7b%22Tid%22%3a%227b887c76-d8d8-4448-9bf5-a51820345eb4%22%2c%22Oid%22%3a%224e5a707d-8f9b-4962-805a-abc912c9fff3%22%7d



Re: Requesting for Formal Acceptance of 2023 Scheme & Syllabus through e-mail

Dakshayani M <dakshayini.ise@bmsce.ac.in>
Fri 7/26/2024 3:18 PM
To:Department of AIML <hodaiml@gat.ac.in>

Dear Madam
Entire Scheme and Syllabus has been very meticulously framed incorporating all the suggestions.
You can go ahead with the effective implementation of the same.
Thank you

On Fri, Jul 26, 2024 at 3:01 PM S. R. S. Iyengar <sudarshan@iitrpr.ac.in> wrote:
This mail may please be considered as my signature and acceptance.

Regards,
S.R.S. Iyengar

On Fri, 26 Jul 2024 at 14:34, Department of AIML <hodaiml@gat.ac.in> wrote:
Dear sir/Madam

On behalf of the AI&ML faculty team of GAT, I would like to extend our heartfelt appreciation for the valuable inputs and suggestions provided by our esteemed BOS members. Your insights have been instrumental in shaping a robust and comprehensive curriculum for the 2023 Batch.

We have meticulously incorporated the suggestions and feedback into the proposed 2023 Scheme and Syllabus. We believe these enhancements will significantly benefit our students, equipping them with the necessary knowledge and skills to excel in their respective fields.

In this regard, we kindly request the Board of Studies (BOS) members to provide formal acceptance. We would be grateful if you could email us your formal acceptance at your earliest convenience.

Thank you once again for your continued support and collaboration.

Re: Requesting for Formal Acceptance of 2023 Scheme & Syllabus through e-mail

S. R. S. Iyengar <sudarshan@iitrpr.ac.in>

Fri 7/26/2024 3:01 PM

To:Department of AIML <hodaiml@gat.ac.in>
Cc:dakshayini.ise@bmsce.ac.in <dakshayini.ise@bmsce.ac.in>;sachin.smath@gmail.com <sachin.smath@gmail.com>;R S <rstechcreations2020@gmail.com>;Christlin Shanuja <christlin@gat.ac.in>;Udayprasad P K <udayaprasad@gat.ac.in>

This mail may please be considered as my signature and acceptance.

Regards,
S.R.S. Iyengar

On Fri, 26 Jul 2024 at 14:34, Department of AIML <hodaiml@gat.ac.in> wrote:

Dear sir/Madam

On behalf of the AI&ML faculty team of GAT, I would like to extend our heartfelt appreciation for the valuable inputs and suggestions provided by our esteemed BOS members. Your insights have been instrumental in shaping a robust and comprehensive curriculum for the 2023 Batch.

We have meticulously incorporated the suggestions and feedback into the proposed 2023 Scheme and Syllabus. We believe these enhancements will significantly benefit our students, equipping them with the necessary knowledge and skills to excel in their respective fields.

In this regard, we kindly request the Board of Studies (BOS) members to provide formal acceptance. We would be grateful if you could email us your formal acceptance at your earliest convenience.

Thank you once again for your continued support and collaboration.

Regards

Dr. Roopa B S
Professor & Head,

Re: Requesting for Formal Acceptance of 2023 Scheme & Syllabus through e-mail

R S <rstechcreations2020@gmail.com>
Fri 7/26/2024 6:17 PM
To:Department of AIML <hodaiml@gat.ac.in>

This mail can be considered as formal acceptance

Kind Regards,
Rithesh S

On Fri, 26 Jul 2024 at 5:09 PM, Department of AIML <hodaiml@gat.ac.in> wrote:

Dear sir/Madam

On behalf of the AI&ML faculty team of GAT, I would like to extend our heartfelt appreciation for the valuable inputs and suggestions provided by our esteemed BOS members. Your insights have been instrumental in shaping a robust and comprehensive curriculum for the 2023 Batch.

We have meticulously incorporated the suggestions and feedback into the proposed 2023 Scheme and Syllabus. We believe these enhancements will significantly benefit our students, equipping them with the necessary knowledge and skills to excel in their respective fields.

In this regard, we kindly request the Board of Studies (BOS) members to provide formal acceptance. We would be grateful if you could email us your formal acceptance at your earliest convenience.

Thank you once again for your continued support and collaboration.

Regards

Dr. Roopa B S
Professor & Head,
Dept. of AI&ML, GAT

2021 Scheme -AI&ML

	III SEMESTER	IV SEMESTER	V SEMESTER	VI SEMESTER	VII SEMESTER	VIII SEMESTER
	Discrete Mathematical Structures	Discrete Mathematical Structures 2	Computer Networks (PC)	Cyber Security (PC)	Business Intelligence (PC)	(PEC 4)
	Data Structures with Applications (IPC)	Design & Analysis of Algorithms (IPC)	Big data Applications (IPC)	Image Processing With Computer Vision (IPC)	Natural Language Processing (IPC)	(PEC 5)
	Web Application Frameworks (IPC)	Database Management Systems (IPC)	Deep Learning Principles & Practices (IPC)	Cloud Computing (IPC)	Quantum Computing (IPC)	Project Phase 2
	Operating System (PC)	Machine Learning Essentials (PC)	(PEC1)	(PEC 2)	(PEC 3)	Technical Seminar
	Software Engineering (ETC)	Core Java (PC)	Research Methodology (AEC III)	(OE 1)	(OE 2)	Internship
	Samskruthika / Balake Kannada /CIPH	Samskruthika / Balake Kannada /CIPH	AI tools, Frameworks and Its application III (AEC IV)	AI tools, Frameworks and Its application IV (AEC V)	Project Phase 1	
			Environmental Science/UHV	Environmental Science/UHV		
	Introduction to innovative Projects (AEC I)	AI tools, Frameworks and Its application II (AEC II)		Mini Project		
			PROFESSIONAL ELECTIVE COURSE -I	**PROFESSIONAL ELECTIVE COURSE -II**	**PROFESSIONAL ELECTIVE COURSE -III**	**PROFESSIONAL ELECTIVE COURSE -IV**
Computer Science			Computer Organization and Architecture	Parallel and Distributed computing	Datamining and Data warehousing	High Performance Computing
Hardware & Robotics			Microcontroller and Embedded System	Intelligent Embedded System	Introduction to Robotics	Intelligent robot and drone technologies
AI & ML			Fundamentals of Data Science	AI in Blockchain	Human Computer Interaction	Edge AI
	Ability Enhancement Course-I	**Ability Enhancement Course-II**	**Ability Enhancement Course-III**	**OPEN ELECTIVES – I**	**OPEN ELECTIVES – II**	**PROFESSIONAL ELECTIVE COURSE -V**
	Introduction to innovative Projects	AI tools, Frameworks & its application II	Research Methodology	Next-Gen Database Technology Using MongoDB	Business Intelligence using Power BI	Argument Reality and Virtual Reality
					Soft Computing	Predictive Analysis in IoT
			Ability Enhancement Course-IV	**Ability Enhancement Course-V**		Intelligent Multiagent and Expert System
			AI tools, Frameworks & its application III	AI tools, Frameworks & its application IV		

2022 Scheme -AI&ML

	III SEMESTER	IV SEMESTER	V SEMESTER	VI SEMESTER	VII SEMESTER	VIII SEMESTER
	Discrete Mathematical Structures (BS)	Probability and Linear Algebra (BS)	Engineering Economics	Cyber Security (PC)	Business Intelligence (PC)	Reinforcement and Ensemble Learning (PC)
	Data Structures with Applications (IPC)	Design & Analysis of Algorithms (IPC)	Big data Applications (IPC)	Image Processing with Computer Vision (IPC)	Natural Language Processing (IPC)	(PEC 4)
	Computer Organization and Architecture (IPC)	Database Management Systems (IPC)	Deep Learning Principles & Practices (IPC)	Cloud Computing (IPC)	Quantum Computing (IPC)	(PEC 5)
	Operating System (PC)	Machine Learning Essentials (PC)	Computer Networks	(PEC 2)	(PEC 3)	Project Phase 2
	Web Application Frameworks (ETC)	Java Programming (ETC)	(PEC1)	(OE 1)	(OE 2)	Technical Seminar
	Software Engineering (AEC I)	Data Visualization (AEC III)	AI tools, Frameworks and Its application II (AEC V)	Environmental Science/UHV	Project Phase 1	Internship
	Introduction to innovative Projects (AEC II)	AI tools, Frameworks and Its application I (AEC IV)	Environmental Science/UHV	Mini Project		
			PROFESSIONAL ELECTIVE COURSE -I	PROFESSIONAL ELECTIVE COURSE -II	PROFESSIONAL ELECTIVE COURSE -III	PROFESSIONAL ELECTIVE COURSE -IV
Computer Science			Full Stack development with DevOps	Parallel and Distributed computing	Datamining and Data warehousing	High Performance Computing
Hardware & Robotics			Microcontroller and Embedded System	Intelligent Embedded System	Introduction to Robotics	Intelligent robot and drone technologies
AI & ML			Fundamentals of Data Science	AI in Blockchain	Human Computer Interaction	Edge AI
	Ability Enhancement Course-I	Ability Enhancement Course-II	Ability Enhancement Course-IV	OPEN ELECTIVES – I	OPEN ELECTIVES – II	PROFESSIONAL ELECTIVE COURSE -V
	Computer Organization and Architecture (AEC I)	Java Programming (AEC III)	Robotics Simulation (AEC V)	Next-Gen Database Technology Using MongoDB	Business Intelligence using Power BI	Argument Reality and Virtual Reality
	Introduction to innovative Projects (AEC II)	AI tools, Frameworks and Its application I (AEC IV)	AI tools, Frameworks and Its application II (AEC VI)		Soft Computing	Predictive Analysis in IoT
						Intelligent Multiagent and Expert System

☐ : CS Foundation Courses ☐ : AI & ML Foundation Courses ☐ : Ability Enhancement Courses ☐ : Projects and Seminars ☐ : Others

2023 Scheme -AI&ML

	III SEMESTER	IV SEMESTER	V SEMESTER	VI SEMESTER	VII SEMESTER	VIII SEMESTER
	Discrete Mathematics and Graph Theory (BS)	Probability and Linear Algebra (BS)	Engineering Economics	Cyber Security using AI (PC)	Quantum Computing (PC)	Reinforcement and Ensemble Learning (PC)
	Data Structures and Applications (IPC)	Design and Analysis of Algorithm (IPC)	Big data Analytics (IPC)	Deep Leaning Principal & Practices (IPC)	Image analytics with Computer Vision (IPC)	(PEC 4)
	Object Oriented programming Using python (IPC)	Database Management Systems (IPC)	Machine Learning Practices (IPC)	Natural Language Processing (IPC)	Advance Natural Language Processing (IPC)	(PEC 5)
	Computer Organization and Operating System (PC)	Machine Learning Techniques (PC)	Computer Networks & Security (PC)	(PEC 2)	(PEC 3)	Project Phase 2
	Machine Learning Foundation (ETC)	Full Stack Development (ETC)	(PEC1)	(OE 1)	(OE 2)	Technical Seminar
	Web Application Frameworks (AEC I)	AI Tools, Frameworks & its Application I (AEC II)	AI tools, Frameworks and Its application II (AEC III)	Environmental Science/UHV	Project Phase 1	Internship
			Environmental Science/UHV	Mini Project		
			PROFESSIONAL ELECTIVE COURSE -I	**PROFESSIONAL ELECTIVE COURSE -II**	**PROFESSIONAL ELECTIVE COURSE -III**	**PROFESSIONAL ELECTIVE COURSE -IV**
Computer Science			DevOPs Essentials	Parallel and Distributed computing	Datamining and Data warehousing	High Performance Computing
Hardware & Robotics			Microcontroller and Embedded System	Intelligent Embedded System	Introduction to Robotics	Intelligent robot and drone technologies
AI & ML			Introduction to Intelligent Networks	AI in Blockchain	Human Computer Interaction	Edge AI
	Ability Enhancement Course-I	**Ability Enhancement Course-II**	**Ability Enhancement Course-IV**	**OPEN ELECTIVES – I**	**OPEN ELECTIVES – II**	**PROFESSIONAL ELECTIVE COURSE -V**
	Web Application Frameworks (AEC I)	AI Tools, Frameworks & its Application I (AEC II)	AI tools, Frameworks and Its application II (AEC III)	Next-Gen Database Technology Using MongoDB	Business Intelligence using Power BI	Augmented Reality and Virtual Reality
					Soft Computing	Predictive Analysis in IoT
						MLOPs

: CS Foundation Courses : AI & ML Foundation Courses : Ability Enhancement Courses : Projects and Seminars : Others

GLOBAL ACADEMY OF TECHNOLOGY

An Autonomous Institute, Affiliated to VTU Belagavi,
Approved by AICTE, Accredited by NAAC,'A' Grade,
Ideal Homes Township, Raja Rajeshwari Nagar, Bengaluru – 560 098
Tel: +91 80 28603158 Email: hodaiml@gat.ac.in Web: www.gat.ac.in

Department of Artificial Intelligence & Machine Learning

Minutes of the Meeting- Board of Studies – 2024

Meeting Title: Board of Studies	**Date & Time :** 20/05/2025, 2:30PM to 3:30 PM	**Venue:** Virtual on MS Teams
https://teams.microsoft.com/l/meetup-join/19%3ameeting_NDFmMDI0MzQtMWFhMS00MDU1LWFkNzktYTgwZGEyMzdkY2Mw%40thread.v2/0?context=%7b%22Tid%22%3a%227b887c76-d8d8-4448-9bf5-a51820345eb4%22%2c%22Oid%22%3a%224e5a707d-8f9b-4962-805a-abc912c9fff3%22%7d		
Meeting Intent: To present the Scheme of 2024 from 3rd to 8th semester & Syllabus of 2024 from 3rd to 4th semester with the BoS Team for scrutiny and approval.		
Meeting facilitator: Dr. Roopa B S, Head, AI&ML, GAT		
Meeting Attendees		
Industry Experts	**Internal Members**	**Academic Experts**
1. Mr. Ritesh Sreenivasan, Senior AI Consultant, Former Scientist, Philips. 2. Mr. Sachin Shivkhalimath, Data Scientist, Genpact 3. Mr. Sachin M R, Senior ML Engineer, DynPro-Sony India Software Corporation.	4. Dr. Roopa B S, Chairman, Prof, AI&ML, GAT 5. Dr. Sandesh R S, Member Convener, Asso. Prof., AI&ML, GAT 6. Prof. Srinath K S, Member Asst. Prof. , AI&ML, GAT 7. Prof. Vasugi I, Member Asst. Prof, AI&ML, GAT 8. Prof. C Christlin Shanuja, Member Asst. Prof, AI&ML, GAT	9. Dr. Sudarshan Iyengar, Prof & Head, CSE, IIT Ropar. 10. r. M Dakshayini, Prof, ISE, BMSCE
Invited Members: Dr. Latha Rajagopalan, Dean-Academics, GAT		

Meeting Proceedings

At the outset BoS Chairman of AI&ML dept., Dr. Roopa B S, introduced and welcomed all the members of the board. Dr. Roopa B S briefed about the highlights of the 2024 scheme & syllabus which continued the detailed discussion.

Dr. Sandesh R S, Member Convener expressed on Program Articulation Matrix outcome of 2024 scheme towards curriculum design. He conveyed that the Program Articulation Matrix was instrumental in aligning the 2024 curriculum with Washington Accord-defined Program Outcomes (POs). Each course from the 3rd to 8th semester was mapped to relevant POs, highlighting areas of strength and gaps. Underrepresented POs, such as ethics and project management, were addressed through components like Technical Seminars and targeted assignments. Stakeholder feedback guided syllabus refinement.

The following are the comments received.

The proposed 2024 scheme from 3rd to 8th semester & 2024 syllabus from 3rd to 4th semester is approved by the experts. The following are the observations and feedback provided by the BoS team.

Consensus of **Dr. Sudarshan Iyengar (Received through message)**

"Thank you for reaching out and for sharing the updated curriculum documents. I'm glad to know that the 2024 scheme has meaningfully incorporated elements from the 2023 version, and I appreciate your team's diligence in the process."

Consensus of **Dr. M Dakshayini**

- It was suggested to incorporate additional practical and hands-on sessions in the Microcontroller course to enhance students' experiential learning and application-oriented understanding.
- It was discussed that in many courses, students are engaged in application development or project-based learning. Faculty are encouraged to guide students in identifying unique and original problems for implementation. Upon completion, students should present their work and submit a supporting report. It was also recommended to ensure academic integrity by verifying report originality through plagiarism detection tools. This practice will help demonstrate **ethical writing practices** and reinforce the importance of individual contribution.
- Appreciated the inclusion of **hands-on elements** through assessments and assignments, even in theory-dominant subjects.
- Welcomed the use of **value-added programs** like Python for Data Analytics and Web Development from early semesters.

Consensus of **Mr. Ritesh Sreenivasan**

- Appreciated the framed syllabus and said it is good to continue.
- Redesign AECs to include mini-projects, case studies, or application-based tasks, thereby making them more skill-oriented and industry-relevant.
- Incorporate **lab sessions or hands-on activities** in technical subjects like *Microcontrollers* to

enhance **practical understanding and student engagement**.

- He recommended that all learning activities—**assignments, tests, projects, and lab work**—be clearly and explicitly **mapped to Course Outcomes (COs)**. This not only aligns with OBE principles but also helps during audits.
- Suggested to introduce value-added programs focused on **advanced data structures** that encourage student participation in competitive programming platforms like **LeetCode** and **Code forces**. This approach will better prepare students for **industry technical interviews** and enhance their problem-solving skills.

Consensus of **Mr. Sachin M R**

- Since all the previous suggestions were incorporated in this curriculum, the framed syllabus was appreciated.

We thank the external experts for the invaluable suggestions and expertise. The insights derived have been incredibly helpful.

Dr. Roopa B S, BoS Chairman, HOD of AI&ML thanked all the members for their kind cooperation and the meeting came to an end.

1. HOD presented about a plan to implement Ability Enhancement Course as phase wise project. The BoS Experts appreciated and asked to proceed with the same for student's betterment.
2. HOD presented on rubrics and evaluation plans of the courses, which got appreciated and approved by BoS Experts.

Dr. Roopa B S, HOD of AI&ML thanked all the members for their kind cooperation and the meeting came to an end.

Dr. Roopa B S
BoS Chairman
Dept. of AI & ML

22/05/25
Dr. H B Balakrishna
Principal, GAT

Department of Civil Engineering

GLOBAL ACADEMY OF TECHNOLOGY
(AUTONOMOUS)

Department of Civil Engineering

Proceedings of the Board of Studies Meeting

Date: 21st September 2024

Venue: Placement Board Room (GAT)

Chairman, BoS

Principal

GLOBAL ACADEMY OF TECHNOLOGY
(AUTONOMOUS)
Department of Civil Engineering

Board of Studies

Date: 21st September 2024

at

Placement Board Room (GAT)

Comprehensive Report

on

Curriculum Proceedings

Chairman, BoS

Dr. Allamaprabhu Kamatagi
Head of the Department
Department of Civil Engineering

Member Secretary, BoS

Mrs. Ankitha Kirana Kumar
Assistant Professor
Department of Civil Engineering

GLOBAL ACADEMY OF TECHNOLOGY
(AUTONOMOUS)
Department of Civil Engineering

Board of Studies

Date: 21st September 2024

at

Placement Board Room (GAT)

Comprehensive Report

on

Curriculum Proceedings

Chairman, BoS

Dr. Allamaprabhu Kamatagi
Head of the Department
Department of Civil Engineering

Member Secretary, BoS

Mrs. Ankitha Kirana Kumar
Assistant Professor
Department of Civil Engineering

GLOBAL ACADEMY OF TECHNOLOGY
(AUTONOMOUS)

Department of Civil Engineering

6th Board of Studies meeting on 21st September 2024

Placement Board Room, GAT

Agenda

6.1 Review and approval of 2024 Scheme first/second semester syllabus of "Engineering Mechanics"(BCIVC24103), "Engineering Geology" (BESCK24104/204G), "Introduction to Civil Engineering" (BESCK24104/204A), "Green uilding" (BETCK24105/205F) and "Waste Management" (BETCK24105/205G).

6.2 Review and approval of BE (Civil engineering) revised V to VIII semester 2022-23 batch scheme and syllabus.

6.3 Review and approval of BE (Civil engineering) III to VIII semester 2023-24 batch scheme and syllabus.

6.4 Review and approval of M. Tech (Civil Engineering) I & IV semester 2024-25 batch scheme and syllabus.

6.5 Other discussions prior permission with all members.

Ankitha

Member Secretary, BoS
Mrs. Ankitha Kirana Kumar
Assistant Professor
Department of Civil Engineering

Chairman, BoS
Dr. Allamaprabhu Kamatagi
Head of the Department
Department of Civil Engineering

GLOBAL ACADEMY OF TECHNOLOGY
(AUTONOMOUS)

Department of Civil Engineering

6th Board of Studies Minutes meeting
21st September 2025, 10.00 AM
Placement Board Room, GAT

Members' Present

Name	Designation	Organization	Position	Online/ Offline
Dr. H.B. Balakrishna	Principal	GAT, Bengaluru	Special Invitee	Offline
Dr. H N Rajashekaraswamy	Dean Academics	GAT, Bengaluru	Special Invitee	Offline
Dr. Allamaprabhu Kamatagi	Asso. Professor & HOD	GAT, Bengaluru	Chairman	Offline
Dr. Dodagoudar G R	Professor	IIT Madras	VTU Nominee	Offline
Dr. L Govindaraju, Professor	Professor	UVCE, Bengaluru University	Subject expert	Offline
Dr. L Uday Simha	Former Professor	BMSCE	Subject expert	Online
Dr. Sanatkumar P Rajamane	Professor of practice and Advisor	Sannidhi Technologies Inc	Industry representative	Offline
Mr. A C Shivakumar.	Consultant for Bridges	-	Industry representative	Offline
Er. Vijay B Kulkarni	Product Segment Manager-Grouts,	Fosroc Chemicals (I) Pvt. Ltd., Bengaluru	Alumni representative	Online
Mr. Shivakumar K S	Assistant Professor	Department of Civil Engineering, GAT, Bengaluru	Member	Offline
Mrs. Varuna Koti	Assistant Professor	Department of Civil Engineering, GAT, Bengaluru	Member	Offline
Mrs Dhavala S	Assistant Professor	Department of Civil Engineering, GAT, Bengaluru	Member	Offline
Mrs. Ankitha Kirana Kumar	Assistant Professor	Department of Civil Engineering, GAT, Bengaluru	Convener	Offline

GLOBAL ACADEMY OF TECHNOLOGY
(AUTONOMOUS)
Accredited by NAAC and NBA & Approved by AICTE, New Delhi and Affiliated to VTU
Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru-560098
DEPARTMENT OF CIVIL ENGINEERING

SIXTH BOARD OF STUDIES (BoS) MEETING

Minutes of Meeting

Meeting Proceedings:

Meeting was initiated by Dr. Allamaprabhu K, Head of the Department, Department of Civil Engineering, GAT. Dr. Allamaprabhu K welcomed the chair, External members who joined the meeting in online mode, Dr. Dodagoudar G R, Dr. L Govindaraju, Mr. Vijay B Kulkarni, Dr. Sanath Kumar P Rajamane, Principal, Dr .H B Balakrishna, Dean Academics Dr. H N. Rajashekaraswamy and the faculties of department of civil engineering to the Board of Studies Meeting.

Points discussed during meeting

6.1 Discussed and approval of 2024 Scheme first/second semester syllabus of "Engineering Mechanics"(BCIVC24103), "Engineering geology" (BESCK24104/204G), "Introduction to Civil Engineering" (BESCK24104/204A), "Green building" (BETCK24105/205F) and "Waste Management" (BETCK24105/205G).

BoS members comments

- It is suggested to swap the modules and introduce kinetics and kinematics in module 5 of Engineering Mechanics (BCIVC24103).

6.2 Discussed and reapproval of revised B.E. V to VIII semester 2022-23 scheme and syllabus:

BoS members comments

- Standard format was suggested for the representation of textbooks and references for all the courses.
- E resources are recommended for certain courses.

6.3 Discussed and reapproval of B.E. III to VIII semester 2023-24 scheme and syllabus:

BoS members comments

- The following courses were suggested for renaming by the BoS members: CIV23405: Principles of Sustainable design; CIVL23408: Surveying practice; CIV23309: Fluid Mechanics & Hydraulics Machines Laboratory
- Standard format was suggested for the representation of textbooks and references for all the courses.

GLOBAL ACADEMY OF TECHNOLOGY

(AUTONOMOUS)

Accredited by NAAC and NBA & Approved by AICTE, New Delhi and Affiliated to VTU
Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru-560098

DEPARTMENT OF CIVIL ENGINEERING

6.4 Discussed and approval of M. Tech I to IV 2024-25 scheme and syllabus:

BoS members comments

- Rearrangement of the order of courses in the 1st semester is suggested.
- Special concrete (24MST11) is included in the Professional elective basket of 1st semester and Optimization Techniques (24MST332) is introduced as a core subject in 1st semester.
- It is suggested to rename Project work phase I and project work phase II as Dissertation phase I and dissertation phase II respectively.
- Minor corrections in the contents and rearrangement of the modules are suggested for a few courses.
- Standard Textbooks and references are suggested to be included for few of the courses.
- E resources are recommended for all the courses.

Conclusion

The Board of Studies members approved the schemes and syllabus discussed under agenda 6.1 to 6.4. The recommendations regarding the restructuring of modules, renaming of courses, inclusion of electives, standardization of references, addition of textbooks, and incorporation of e-resources were duly considered. The Chairperson expressed gratitude to all members for their valuable inputs and constructive discussions.

Ms. Ankitha Kirana Kumar BoS Convenor	Dr. Allamaprabhu Kamatagi BoS Chairman	Dr. H.B. Balakrishna Principal

Global Academy of Technology
An Autonomous Institution Affiliated to Visvesvaraya Technological University, Belgavi
Approved by UGC, AICTE and Govt. of Karnataka
NBA Accredited CSE, CV, ECE, EEE, ISE and ME Programmes

Department of Civil Engineering

Board of Studies – Members

21st September 2024

Sl.no	Designation	Name	Signature
1.	Chairman	Dr. Allamaprabhu Kamatagi, HOD, Department of Civil Engineering, GAT, Bengaluru, 9844243511., prabhukamatagi@gat.ac.in	
2.	VTU Nominee	Dr Dodagoudar G R, Professor, Geotechnical Engineering, IIT Madras., 9840328754., goudar@iitm.ac.in	
3.	Subject Expert 1	Dr. L Udaya Simha, Former Professor, Department of Civil Engineering, BMSCE, Bengaluru, 9900384618, ludayasimha@gmail.com	–
4.	Subject expert 2	Dr. L Govindaraju, Professor., UVCE, Bengaluru University., 9731336546., rajulgovinda@gmail.com	21/09/2024
5.	Industry representative	Dr Sanatkumar P Rajamane, Ph.D. (Struct, IIT Madras), Sannidhi Technologies Inc., Professor of practice and Advisor, IIT-Dharwad., Member of Board of studies VTU-Gov of Karnataka., 9880713648, drspr@sannidhitechnologiesinc.com	
6.	Industry representative	A C Shivakumar.,Consultant for Bridges, rigid pavements, deep excavations & irrigation structures., Design Academy Consulting Civil Engineers., 9110250187., acshivakumar86@gmail.com	
7.	A distinguished Alumnus	Er. Vijay B Kulkarni, Product Segment Manager- Grouts, Repairs & productive coatings, India., Fosroc Chemicals (I) Pvt. Ltd., Bengaluru., 9986811092., vijayfos@gmail.com	–
8.	Member	Mr. Shivakumar K S, Assistant Professor, Department of Civil Engineering, GAT, 9880260473., shibks143@gmail.com	21/9/24
9.	Member	Mrs Dhavala S., Assistant Professor, Department of Civil Engineering, GAT, 9739872169., d.padiwal@gat.ac.in	
10	Member	Mrs Varuna Koti., Assistant Professor, Department of Civil Engineering, GAT.,9845232501., varunakoti18@gat.ac.in	
11	Convenor	Ms. Ankitha Kirana Kumar, Assistant Professor, Department of Civil Engineering, GAT, 9900637492., ankitha.k@gat.ac.in	21/9/24
12	Invited member	Dr. H.B. Balakrishna, Principal, GAT, Bengaluru, 9845395535., principal@gat.ac.in	
13	Invited member	Dr. H.N. Rajashekaraswamy, Dean, GAT, Bengaluru,8095503309., rajashekharswamy@gat.ac.in	

GLOBAL ACADEMY OF TECHNOLOGY
(AUTONOMOUS)
Accredited by NAAC and NBA & Approved by AICTE, New Delhi and Affiliated to VTU
Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru-560098
DEPARTMENT OF CIVIL ENGINEERING

Action Taken Report (ATR)

Based on the Minutes of the Board of Studies Meeting Date: 21.09.2024

Prepared by: Mrs. Ankitha Kirana Kumar, Member Secretary-BoS

6.1 Approval of 2024 Scheme – First/Second Semester Courses

Courses: *Engineering Mechanics (BCIVC24103), Engineering Geology (BESCK24104/204G), Introduction to Civil Engineering (BESCK24104/204A), Green Building (BETCK24105/205F), Waste Management (BETCK24105/205G)*

Recommendation	Action Taken
Swap the modules and introduce Kinetics and Kinematics in Module 5 of Engineering Mechanics.	Modules revised; accordingly, Kinetics and Kinematics placed in Module 5 of Engineering Mechanics.

6.2 Reapproval of Revised B.E. V–VIII Semester 2022–23 Scheme and Syllabus

Recommendation	Action Taken
Standard format for representation of textbooks and references for all courses.	Adopted uniform reference style across all courses.
Recommendation of e-resources for certain courses.	Relevant e-resources identified and added in the syllabus.

6.3 Reapproval of B.E. III–VIII Semester 2023–24 Scheme and Syllabus

Recommendation	Action Taken
Renaming of courses: CIV23405 → *Principles of Sustainable Design*, CIVL23408 → *Surveying Practice*, CIV23309 → *Fluid Mechanics & Hydraulic Machines Laboratory*.	Course names revised as suggested.
Standard format for representation of textbooks and references for all courses.	Adopted uniform reference style across all courses.

6.4 Approval of M.Tech I–IV Semester 2024–25 Scheme and Syllabus

Recommendation	Action Taken
Rearrangement of the order of courses in the 1st semester.	Courses rearranged as per suggestions.
Inclusion of *Special Concrete (24MST11)* in the Professional Elective basket and *Optimization Techniques (24MST332)* as a core subject in 1st semester.	Incorporated in the revised syllabus.
Rename Project Work Phase I and Phase II as Dissertation Phase I	Renamed as per VTU

BAL ACADEMY OF TECHNOLOGY

(AUTONOMOUS)

d by NAAC and NBA & Approved by AICTE, New Delhi and Affiliated to VTU
Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru-560098

DEPARTMENT OF CIVIL ENGINEERING

and Dissertation Phase II.	Scheme
Minor corrections in content and rearrangement of modules for a few courses.	Corrections and rearrangements completed.
Inclusion of standard textbooks and references for a few courses.	Standard textbooks and references added.
Recommendation of e-resources for certain courses.	E-resources incorporated.

Ms. Ankitha Kirana Kumar BoS Convenor	Dr. Allamaprabhu Kamatagi BoS Chairman	Dr. H.B. Balakrishna Principal

GLOBAL ACADEMY OF TECHNOLOGY
(AUTONOMOUS)

Department of Civil Engineering

Proceedings of the Board of Studies Meeting

Date: 27th May 2025

Venue: Placement Board Room, GAT

Chairman, BoS

Principal

GLOBAL ACADEMY OF TECHNOLOGY
(AUTONOMOUS)
Department of Civil Engineering

Board of Studies

Date: 27th May 2025

at

Placement Board Room, GAT

Comprehensive Report

of

Proceedings and Curriculum Revision

Chairman, BoS

Dr. Allamaprabhu Kamatagi
Head of the Department
Department of Civil Engineering

Member Secretary, BoS

Dr. Manu D S
Associate Professor
Department of Civil Engineering

Global Academy of Technology
An Autonomous Institution Affiliated to Visvesvaraya Technological University, Belgavi
Approved by UGC, AICTE and Govt. of Karnataka
NBA Accredited CSE, CV, ECE, EEE, ISE and ME Programmes

Department of Civil Engineering

Board of Studies – Members

21st May 2025

Sl.no	Designation	Name
1.	Chairman	Dr. Allamaprabhu Kamatagi, HOD, Department of Civil Engineering, GAT, Bengaluru, 9844243511., prabhukamatagi@gat.ac.in
2.	VTU Nominee	Dr Dodagoudar G R, Professor, Geotechnical Engineering, IIT Madras., 9840328754., goudar@iitm.ac.in
3.	Subject expert	Dr. L Govindaraju, Professor., UVCE, Bengaluru University., 9731336546., rajulgovinda@gmail.com
4.	Industry representative	Dr Sanatkumar P Rajamane, Ph.D. (Struct, IIT Madras), Sannidhi Technologies Inc., Professor of practice and Advisor, IIT-Dharwad., Member of Board of studies VTU-Gov of Karnataka., 9880713648, drspr@sannidhitechnologiesinc.com
5.	Industry representative	A C Shivakumar., Consultant for Bridges, Rigid pavements, Deep excavations & Irrigation structures., Design Academy Consulting Civil Engineers., 9110250187., acshivakumar86@gmail.com
6.	A distinguished Alumnus	Er. Vijay B Kulkarni, Product Segment Manager- Grouts, Repairs & productive coatings, India., Fosroc Chemicals (I) Pvt. Ltd., Bengaluru., 9986811092., vijayfos@gmail.com
7.	Convenor	Dr. Manu D S, Associate Professor, Department of Civil Engineering, GAT, 9538769824., drmanu.ds@gat.ac.in
8.	Member	Dr. Ravindra P M, Professor, Department of Civil Engineering, GAT, 9964639538., drravindrapm@gat.ac.in
9.	Member	Dr. Preethi R K., Associate Professor, Department of Civil Engineering, GAT, 7022578411., drpreethirk@gat.ac.in
10.	Member	Mrs Dhavala S., Assistant Professor, Department of Civil Engineering, GAT, 9739872169., d.padiwal@gat.ac.in
11.	Invite member	Dr. H.B. Balakrishna, Principal, GAT, Bengaluru, 9845395535., principal@gat.ac.in
12.	Invite member	Dr. Latha Rajagopalan, Dean Academics, GAT, Bengaluru 9942436354, dean@gat.ac.in

CHAIRMAN
BOARD OF STUDIES
Dept. of Civil Engineering
Global Academy of Technology
Rajarajeshwarinagar, Bengaluru-98

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

GLOBAL ACADEMY OF TECHNOLOGY
(AUTONOMOUS)

Department of Civil Engineering

7th Board of Studies meeting on 27th May 2025

Placement Board Room, GAT

Agenda

7.1. Review of 2024-25 scheme 3rd to 8th semester UG scheme.

7.2. Review of UG 2024-25 scheme 3rd and 4th semester syllabus.

7.3. Review of 2024-25 revised scheme and syllabus of 1st to 4th semester PG. (M.Tech in Structural Engineering)

7.4. Other discussions with prior permission with all members

Member Secretary, BoS
Dr. Manu D S
Associate Professor
Department of Civil Engineering

Chairman, BoS
Dr. Allamaprabhu Kamatagi
Head of the Department
Department of Civil Engineering

GLOBAL ACADEMY OF TECHNOLOGY
(AUTONOMOUS)

Department of Civil Engineering

7th Board of Studies Minutes meeting
27th May 2025, 10.30 AM
Placement Board Room, GAT

Members' Present

Name	Designation	Organization	Position	Online/ Offline
Dr. H.B. Balakrishna	Principal	GAT, Bengaluru	Special Invitee	Offline
Dr. Latha Rajagopalan	Dean Academics	GAT, Bengaluru	Special Invitee	Offline
Dr. Allamaprabhu Kamatagi	Asso. Professor & HOD	GAT, Bengaluru	Chairman	Offline
Dr Dodagoudar G R	Professor	IIT Madras	VTU Nominee	Online
Dr. L Govindaraju, Professor	Professor	UVCE, Bengaluru University	Subject expert	Online
Dr Sanatkumar P Rajamane	Professor of practice and Advisor	Sannidhi Technologies Inc	Industry representative	Offline
Er. Vijay B Kulkarni	Product Segment Manager- Grouts,	Fosroc Chemicals (I) Pvt. Ltd., Bengaluru	Alumni representative	Online
Dr. Ravindra P M	Professor	Department of Civil Engineering, GAT, Bengaluru	Member	Offline
Dr. Manu D S,	Associate Professor	Department of Civil Engineering, GAT, Bengaluru	Convenor	Offline
Dr. Preethi R K	Associate Professor	Department of Civil Engineering, GAT, Bengaluru	Member	Offline
Mrs Dhavala S	Assistant Professor	Department of Civil Engineering, GAT, Bengaluru	Member	Offline

GLOBAL ACADEMY OF TECHNOLOGY

(AUTONOMOUS)

Accredited by NAAC and NBA & Approved by AICTE, New Delhi and Affiliated to VTU
Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru-560098

DEPARTMENT OF CIVIL ENGINEERING

SEVENTH BOARD OF STUDIES (BoS) MEETING

Minutes of Meeting

Meeting Proceedings:

- Meeting was initiated by Dr. Allamaprabhu K, Head of the Department, Department of Civil Engineering, GAT.
- Dr. Allamaprabhu K welcomed the chair, External members who joined the meeting in online mode, Dr. Dodagoudar G R, Dr. L Govindaraju, and Mr. Vijay B Kulkarni, and offline members present, Dr. Sanath Kumar P Rajamane, Principal, Dr .H B Balakrishna, Dean Academics, Dr. Latha Rajagopalan and the faculties of department of civil engineering to the Board of Studies Meeting.

7.1 Discussion and Approval of the 3rd to 8th Semester Scheme under the 2024 Scheme

Dr. Manu presented the proposed 2024–25 UG academic scheme for the 3rd to 8th semesters, which was thoroughly deliberated. The scheme is aligned with the National Education Policy (NEP) 2020, emphasizing interdisciplinary learning, industry relevance, and a student-centric approach. The same was approved by the Chair.

7.2 Discussion and Approval of the 3rd and 4th Semester Syllabus under the 2024 Scheme:

During the discussion on the 3rd and 4th semester syllabus under the 2024 Scheme, the following suggestions and recommendations were made by the members for improving academic content, practical orientation, and uniformity across courses:

3rd Semester – BoS members comments:

- Dr. G. L. Govindaraju recommended including "Mechanics of Materials" by F. P. Beer, E. R. Johnston, in the list of reference textbooks.
- Dr. H. B. Balakrishna suggested: Incorporating current practices of BWSSB, BDA, Water Treatment Plants, and Sewage Treatment Plants in Module 3 to improve practical understanding. Including "Wastewater Engineering: Treatment and Reuse" by Metcalf and Eddy and Chemistry for Environmental Engineering Science by Sawyer, Perry McCarty as a reference textbook.
- Dr. H. B. Balakrishna recommended introducing a self-study activity on the National Building Code (NBC) for better conceptual clarity.

- Dr. H. B. Balakrishna. proposed including a Course Outcome (CO) – Advise Suitability of material for Construction – in the subject Building Material Testing Lab.
- Dr. L. Govindaraju emphasized maintaining uniformity in reference formats across subjects.
- Dr. H. B. Balakrishna recommended syllabus revision for the subject Geospatial Techniques in Practice.
- Dr. H. B. Balakrishna also suggested integrating industry safety standards and NBC guidelines in the subject Fire Safety in Buildings.
- Dr. Dodagoudar G. R. advocated the inclusion of case studies and Detailed Project Reports (DPRs) in the Smart Urban Infrastructure subject.

4th Semester – BoS members comments:

- It was suggested to rename the subject as "Fluid Mechanics and Hydraulic Machines" and include the Hydraulic Machines module in Module 4 or 5.
- Subtitle to be rephrased from "Importance of Transportation" to "Introduction to Transportation".
- Code books for railway design to be included in the references.
- All lab subjects should present their content as a List of Experiments rather than Modules.
- In Advanced Surveying, outdated content should be removed and replaced with modern topics such as Total Station, GPS, LiDAR, and Drone Surveying."
- Suggested to revise content to avoid repetition of topics such as Climate Change across modules in Fundamental Approach to Sustainable Development.
- The syllabus for common subjects across departments will be provided from the office of Dean Academics.
- The next academic meeting will focus on reviewing the syllabus for 5th to 8th semesters.

7.3 Discussion and reapproval of 2024-25 revised scheme and syllabus of 1st to 4th semester PG. M.Tech Subjects – BoS members comments:

- Dr. G. L. Govindaraju recommended including a textbook Theory of Elasticity authored by Dr. G. L. Govindaraju.
- Dr. Dodagoudar G. R suggested including Numerical Methods for Engineers by D V Griffiths and I M Smith for Computational Structural Matrices.

- A 5-hour bridge course should be conducted for M.Tech students prior to the semester commencement.
- It was recommended to organize at least two industry/site visits per month for enhanced exposure.
- Dr. Latha Rajagopalan emphasized revisiting and refining CO-PO mappings for all subjects.

Conclusion

The meeting concluded with the approval of all agenda items and the incorporation of suggestions from the BoS members. The following were resolved:

- Approval of the 2024–25 UG scheme for the 3rd to 8th semesters.
- Approval of the 2024–25 syllabus for the 3rd and 4th semesters.
- Approval of the 2024–25 revised scheme and syllabus for the 1st to 4th semesters of PG programs.

The Chairperson extended sincere gratitude to all members for their valuable contributions and constructive deliberations, and the meeting was formally concluded.

Dr. Manu D S BoS Convenor	Dr. Allamaprabhu Kamatagi BoS Chairman	Dr. H.B. Balakrishna Principal

Global Academy of Technology
An Autonomous Institution Affiliated to Visvesvaraya Technological University, Belgavi
Approved by UGC, AICTE and Govt. of Karnataka
NBA Accredited CSE, CV, ECE, EEE, ISE and ME Programmes

Department of Civil Engineering

Board of Studies – Members

27th May 2025

Sl.no	Designation	Name	Signature
1.	Chairman	Dr. Allamaprabhu Kamatagi, HOD, Department of Civil Engineering, GAT, Bengaluru,9844243511., prabhukamatagi@gat.ac.in	
2.	VTU Nominee	Dr Dodagoudar G R, Professor, Geotechnical Engineering, IIT Madras., 9840328754., goudar@iitm.ac.in	Attended online
3.	Subject expert	Dr. L Govindaraju, Professor., UVCE, Bengaluru University., 9731336546., rajulgovinda@gmail.com	Attended online
4.	Industry representative	Dr Sanatkumar P Rajamane, Ph.D. (Struct, IIT Madras), Sannidhi Technologies Inc., Professor of practice and Advisor, IIT-Dharwad., Member of Board of studies VTU-Gov of Karnataka., 9880713648, drspr@sannidhitechnologiesinc.com	
5.	Industry representative	A C Shivakumar., Consultant for Bridges, rigid pavements, deep excavations & irrigation structures., Design Academy Consulting Civil Engineers., 9110250187., acshivakumar86@gmail.com	Absent
6.	A distinguished Alumnus	Mr. Vijay B Kulkarni, Product Segment Manager- Grouts, Repairs & productive coatings, India., Fosroc Chemicals (I) Pvt. Ltd., Bengaluru., 9986811092., vijayfos@gmail.com	Attended online
7.	Convenor	Dr. Manu D S, Associate Professor, Department of Civil Engineering, GAT, 9538769824., drmanu.ds@gat.ac.in	
8.	Member	Dr. Ravindra P M, Professor, Department of Civil Engineering, GAT, 9964639538., drravindrapm@gat.ac.in	
9.	Member	Dr. Preethi R K., Associate Professor, Department of Civil Engineering, GAT, 7022578411., drpreethirk@gat.ac.in	27/5/25
10.	Member	Mrs Dhavala S., Assistant Professor, Department of Civil Engineering, GAT, 9739872169., d.padiwal@gat.ac.in	
11.	Invited member	Dr. H.B. Balakrishna, Principal, GAT, Bengaluru, 9845395535., principal@gat.ac.in	
12.	Invited member	Dr. Latha Rajagopalan, Dean Academics, GAT, Bengaluru, 9942436354, dean@gat.ac.in	27/05/25

Meeting Attendees:

The following members attended the BOS meeting:

S.NO	Name of the Teaching Faculty	Designation	Signature
1	Mrs. Vidyashree D	Assistant Professor, GAT	27/5/25
2	Mr. Karthik S	Assistant Professor, GAT	27/5/25
3	Mrs. Pallavi H J	Assistant Professor, GAT	
4	Mrs. Kavyashree K N	Assistant Professor, GAT	
5	Mr. Shivakumara M J	Assistant Professor, GAT	
6	Mr. Basavaraj Dhannur	Assistant Professor, GAT	
7	Mr. Meghan Gowda J S	Assistant Professor, GAT	
8	Mr. Hariprasad V L	Assistant Professor, GAT	
9	Ms. Shubha K	Assistant Professor, GAT	

GLOBAL ACADEMY OF TECHNOLOGY

(AUTONOMOUS)

Accredited by NAAC and NBA & Approved by AICTE, New Delhi and Affiliated to VTU
Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru-560098

DEPARTMENT OF CIVIL ENGINEERING

Dr. H.B. Balakrishna, Principal welcoming BoS members

Faculty members actively participated in the BoS meeting.

GLOBAL ACADEMY OF TECHNOLOGY
(AUTONOMOUS)
Accredited by NAAC and NBA & Approved by AICTE, New Delhi and Affiliated to VTU
Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru-560098
DEPARTMENT OF CIVIL ENGINEERING

Action Taken Report (ATR)

Based on the Minutes of the Board of Studies Meeting Date: 27.05.2025

Prepared by: Dr. Manu D S, Member Secretary-BoS

7.1 Approval of the 3rd to 8th Semester UG Scheme

Sl. No.	Recommendation / Discussion	Action Taken
1	Proposed UG academic scheme (3rd to 8th semesters) presented and deliberated.	The scheme was approved by the Chair. Incorporated into the 2024 curriculum structure aligning with NEP-2020.

7.2 Approval of the 3rd & 4th Semester UG Syllabus

3rd Semester – Action Taken

Sl. No.	Recommendation	Action Taken
1	Include *Mechanics of Materials* by Beer and Johnson as reference.	Incorporated in the reference textbook list.
2	Add BWSSB, BDA, WTP, STP practices in Module 3 and include *Wastewater Engineering by Metcalf & Eddy* and *Chemistry for Environmental Engineering Science by Sawyer & McCarty*.	Practical aspects and textbooks incorporated in syllabus.
3	Introduce a self-study activity on NBC.	Added as a mandatory self-study component.
4	Include Course Outcome – "Advise Suitability of Material for Construction" in Building Material Testing Lab.	CO updated and incorporated.
5	Maintain uniformity in reference formats across subjects.	Standardized reference style adopted.
6	Complete syllabus revision for *Geospatial Techniques in Practice*.	Revision initiated; draft syllabus updated accordingly.
7	Integrate industry safety standards and NBC guidelines in Fire Safety in Buildings.	Incorporated into course content.
8	Include case studies and DPRs in Smart Urban Infrastructure.	Case studies and DPRs included as part of syllabus and assignments.

4th Semester – Action Taken

Sl. No.	Recommendation	Action Taken
1	Rename "Fluid Mechanics" to "Fluid Mechanics and Hydraulic Machines"; add modules on Hydraulic Machines.	Renaming and module inclusion completed.
2	Change subtitle "Importance of Transportation" →	Modified as suggested.

GLOBAL ACADEMY OF TECHNOLOGY

(AUTONOMOUS)

Accredited by NAAC and NBA & Approved by AICTE, New Delhi and Affiliated to VTU
Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru-560098

DEPARTMENT OF CIVIL ENGINEERING

	"Introduction to Transportation".	
3	Include railway design code books in references.	Added in reference list.
4	Present lab syllabi as List of Experiments instead of Modules.	All lab syllabi reformatted accordingly.
5	Revise *Advanced Surveying* – replace outdated topics with Total Station, GPS, LiDAR, Drone Surveying.	Updated with modern surveying techniques.
6	Avoid repetition of Climate Change topics in *Fundamental Approach to Sustainable Development*.	Repetitive content removed; content streamlined.
7	Common subject syllabi across departments to be provided by Dean Academics.	Communicated with Dean Academics; common syllabi adopted.
8	Review syllabus for 5th to 8th semesters in next meeting.	Scheduled for next BoS meeting.

7.3 Approval of PG (M.Tech Structural Engineering) 1st to 4th Semester Syllabus – Action Taken

Sl. No.	Recommendation	Action Taken
1	Include *Theory of Elasticity* authored by Dr. G. L. Govindaraju.	Added in reference list.
2	Include *Numerical Methods for Engineers* by Griffiths & Smith for Computational Structural Matrices.	Incorporated in references.
3	Conduct a 5-hour bridge course before semester commencement.	Bridge course scheduled for incoming batch.
4	Organize at least two industry/site visits per month.	Action plan prepared in coordination with industry partners.
5	Refine CO-PO mappings for all subjects.	Mapping reviewed and updated across all PG subjects.

Dr. Manu D S
BoS Convenor

Dr. Allamaprabhu Kamatagi
BoS Chairman

Dr. H.B. Balakrishna
Principal

Department of Computer Science and Engineering

GLOBAL ACADEMY OF TECHNOLOGY

An Autonomous Institute, Affiliated to VTU, Belagavi
Approved by AICTE, Accredited by NAAC 'A' Grade
Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru – 560 098

Department of Computer Science and Engineering

(Accredited by NBA 2022-2025)

Board of Studies Members
AY:2024-25

Sl. No.	Name of the BOS Member	Name of the Institution/Organization	Designation
1	Dr. Kumaraswamy S	Head of the Department, CSE, GAT	Chairman
2	Dr. H S Guruprasad	Professor, Dept. of ISE, BMS College of Engineering, Bengaluru	VTU Nominee
3	Dr. Nagaraja G S	Professor and Associate Dean (PG), Dept. of CSE, RVCE, Bengaluru	Subject Expert 1
4	Dr. Jalesh Kumar	Professor and HoD, Department of CSE, JNNCE, Shivamogga	Subject Expert 2
5	Mr. S. Nagendra Swamy	Program Director, Sharp Software Development India Pvt. Ltd., Bengaluru	Industry Representative
7	Mr.Rajesh Nambiar	Director, Asia Pacific- Japan, Academic and Learning Alliances, UiPath India, Bengaluru	Industry Representative
8	Mr.Sharath Chandra	Technical Soln Architect, Sr Specialist, NTT Data, Bengaluru	Industry Representative
9	Mr. Santosh Nag	Staff Software Engineer,GE Healthcare, Bengaluru	Distinguished Alumnus
10	Dr. R Kanagavalli	Professor, Dept. of CSE, GAT	Member Convener
11	Dr. Jyothi R	Professor, Dept. of CSE, GAT	Member
12	Dr.Anitha K	Associate Professor, Dept. of CSE, GAT	Member
13	Dr. Roshan Joy Martis	Associate Professor, Dept. of CSE, GAT	Member
14	Prof. Vanishree M L	Assistant Professor, Dept. of CSE, GAT	Member
15	Dr. H B Balakrishna	Principal, GAT	Invited Member
16	Dr. H M Rajashekhar Swamy	Dean Academics, GAT	Invited Member

HOD-CSE
Head of Department
Computer Science Engineering
Global Academy of Technology
Bangalore 98

Dean Academic
Global Academy of Technology,
Rajarajeshwarinagar, Bengaluru-98

Principal
Principal
Global Academy of Technology
R.R. Nagar, Bangalore 98

GLOBAL ACADEMY OF TECHNOLOGY

(An Autonomous Institute under VTU, Belagavi, Approved by AICTE and Government of Karnataka)
Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru – 560 098

Department of Computer Science & Engineering

(Accredited by NBA 2022-2025)

Proceedings of Board of Studies Meeting

Meeting Date	14 September 2024	**Mode of Meeting**	Hybrid: Offline - IOT Lab Online:
Meeting start and end time	9:30 a.m. -11.30 a.m.	**Meeting Chair**	Dr. Kumarawamy S Chairman-BOS(CSE)
Meeting Organizer / Convenor	Dr. R.Kanagavalli Convenor-BOS(CSE)	**Meeting Title**	Board of Studies Meeting - CSE
Meeting scribe	Dr. Roshan Joy Martis	**Drafted Date**	17 September 2024

I. Agenda:

A. Finalization of Scheme and Syllabus for 3rd semester to 8th semester for the 2023 - 2024 batch of undergraduate students pursuing the Bachelorette of Engineering program in Computer Science and Engineering in the department.
B. Finalization of Scheme and Syllabus for 5th semester to 8th semester for the 2022 - 2023 batch of undergraduate students pursuing the Bachelorette of Engineering program in Computer Science and Engineering in the department.
C. Finalization of Scheme and Syllabus of 2024 batch of 1st semester M.Tech students.
D. Finalization of Scheme and Syllabus of 2024 batch 1st and 2nd semester UG.
E. Any other matter with the permission of the chair.

II. Attendees:

Sl. No.	Designation	Name	Affiliation
1.	Chairman	Dr. Kumaraswamy S	Head of the Department, CSE, GAT, Bengaluru.
2.	Member and VTU Nominee	Dr. H S Guruprasad	Professor, Dept. of ISE, BMS College of Engineering, Bengaluru.
3.	Member and Subject Expert	Dr. Nagaraja G S	Professor and Associate Dean (PG), Dept. of CSE, RVCE, Bengaluru.
4.	Member and Subject Expert	Dr. Jalesh Kumar	Professor and Head, Dept. of CSE, Jawaharlal Nehru National College of Engineering , Shivamogga

5.	Industry Representative	Mr. S. Nagendra Swamy	Program Director, Sharp Software Development India Pvt. Ltd., Bengaluru.
6.	Industry Representative	Mr.Rajesh Nambiar	Director, Asia Pacific- Japan, Academic and Learning Alliances, UiPath India, Bengaluru.
7.	Distinguished Alumnus	Mr. Santosh Nag	Staff Software Engineer, GE Healthcare, Bengaluru.
8.	Member Convenor	Dr. R Kanagavalli	Professor, Dept. of CSE, GAT, Bengaluru.
9.	Member	Dr. Jyothi R	Professor, Dept. of CSE, GAT, Bengaluru.
10.	Member	Dr. Roshan Joy Martis	Associate Professor, Dept. of CSE, GAT, Bengaluru.
11.	Member	Dr. Anitha K	Associate Professor, Dept. of CSE, GAT, Bengaluru.
12.	Member	Prof. Vanishree M L	Assistant Professor, Dept. of CSE, GAT, Bengaluru.
13.	Invited Member	Dr. Dr. Balakrishna H. B.	Principal, GAT, Bengaluru.
14.	Invited Member	Dr. H M Rajashekhar Swamy	Dean Academics, GAT, Bengaluru.

Apologies:

Sl. No.	Designation	Name	Affiliation
1.	Industry Representative	Mr. Sharath Chandra	Technical Solution Architect, Sr Specialist, NTT Data, Bengaluru

III. Proceedings:

The chairman, Dr. Kumaraswamy S. welcomed the gathering. He explained the vision, mission and the agenda of meeting and declared the house open for deliberations agenda wise. Following is a brief account.

Agenda A:

Finalization of Scheme and Syllabus for 3rd semester to 8th semester for the 2023 - 2024 batch of undergraduate students pursuing the Bachelorette of Engineering program in Computer Science and Engineering in the department.

1. It was proposed to change the scheme (L:T:P) of CSE23305x-ESC/ETC/PLC courses from 3:0:0 to 2:0:2, if the course offered is a laboratory oriented course. Also it was proposed that the evaluation of the same can be followed as per IPCC courses evaluation pattern.
2. It was proposed to design the ability enhancement course II in the fifth semester with a view that it should help students in placements.
3. The rationale of having "full stack framework (frontend) (CSE 23407B) is questioned. It was clarified that full stack framework (backend) is included in the fifth semester.

4. It was proposed to include cloud technology like Amazon web services, generative artificial intelligence etc. in the curriculum. It was clarified that it is included in the higher semesters.
5. It was proposed to change the title of the subject "Algorithmic Game Theory (CSE23405B) to "Game Theory".
6. It was suggested to include industrial perspective in the subject "Software Engineering and Project management (CSE23501). It was also proposed to deliver the subject by industry experts.
7. It was suggested to include preliminary concepts of networks in the earlier semester as a prelude while including "computer networks (CSE 23503).
8. Regarding inclusion of the subject "Introduction to AI (CSE23604D) as an open elective, provision should not be provided to opt the subject in case if the students have the same subject in their earlier semesters.
9. It was suggested to include a networking course which is more relevant to non-computer science and engineering students instead of the subject "Mobile Application Development (CSE23604C).
10. The rationale for the inclusion of provision for continuous development of students by NPTEL or Coursera courses is discussed. It was discussed to include industry-oriented certification courses like Infosys, Springboard, Coursera, etc. as an assignment component in any subject in the curriculum. Consensus is drawn to include the same.
11. It was suggested to include a subject User Interface Technology as it helps students in their industry practice.
12. It was discussed in case if a student doesn't get an industry internship, can he/she alternatively do VTU recommended MOOC course, the same is agreed upon.

Agenda B:

Finalization of Scheme and Syllabus for 5th Semester to 8th Semester for the 2022 - 2023 batch of undergraduate students pursuing the Bachelorette of Engineering program in Computer Science and Engineering in the department.

1. Dr.Kumarswamy informed the august members that as per the directions of the VTU, it was instructed to follow the university framework for the curriculum from the 2022-23 batch.
2. As the subject "Software Engineering and Project management" had been covered in the 4th semester the subject title of CSE22501 has been kept as "Management, Economics and Finance for IT Engineers". The members of the BOS accepted the change and suggested for inclusion of industrial perspective and delivery of the subject by industry experts.
3. The members suggested to conduct Value Added Courses on Industry Angular UI and hands on cyber Security tools.
4. Members of BOS suggested to have proper framework for evaluation of online courses and Internship (swappable 7th and 8th semester) in discussion with Dean Academics.
5. Members suggested to communicate via mail for ratification of the syllabus from 6th semester onwards once syllabus is available.

Agenda C:

Finalization of Scheme and Syllabus of 2024 batch of 1st semester M.Tech students.

1. Dr. Kumarswamy informed the august members that only the 1st semester scheme and syllabus is available from the university and presented the same to the members.
2. Members accepted the same and suggested to communicate further developments via mail.

Agenda D:

Finalization of Scheme and Syllabus of 2024 batch 1st and 2nd semester UG

1. Dr. Kumarswamy presented 1st and 2nd semester scheme of 2024 batch(CSE stream) prepared by Dean Academics.
2. As per the scheme "Principles of Programming using C"-BPOPS24103/203 and "Introduction to C Programming"-BESCK24104/204D will be offered by Department of Computer Science and Engineering and the syllabus of the same was presented.
3. Members of the BOS suggested not to restrict only to the framed questions of laboratory.

Agenda E:

Discussion on Value Added Programs

1. The members were briefed about the value added courses conducted by the department in the previous academic year.
2. External members advised the department to continue the same courses for the current batch of students and also suggested to conduct courses on Angular UI, Penetration testing tools.

Concluding Remarks

1. Dr. Guruprasad H S suggested to follow autonomy in curriculum within VTU frame work.
2. Subject experts suggested to concentrate on practical session more than theory sessions.
3. Industry experts suggested to include Industry ready courses if possible in the curriculum or to conduct SDPs, VAPs for the same.
4. Dr.R Kanagavalli thanked all the members for their presence and valuable suggestions and continual support .

HOD-CSE

Head of Department
Computer Science Engineering
Global Academy of Technology
Bangalore 98

Dean

Dean Academic
Global Academy of Technology,
Rajarajeshwarinagar, Bengaluru-98

Principal

Principal
Global Academy of Technology
R.R. Nagar, Bangalore - 98.

GLOBAL ACADEMY OF TECHNOLOGY

An Autonomous Institute, Affiliated to VTU, Belagavi
Approved by AICTE, Accredited by NAAC 'A' Grade
Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru – 560 098

Department of Computer Science and Engineering

(Accredited by NBA 2022-2025)

Date: 14.09.2024

BOS MEETING ATTENDANCE

Sl. No.	Name of the BOS Member	Name of the Institution/Organization	Designation	Signature
1	Dr. Kumaraswamy S	Head of the Department, CSE, GAT	Chairman	SKSwamy
2	Dr. H S Guruprasad	Professor, Dept. of ISE, BMS College of Engineering, Bengaluru	VTU Nominee	– online –
3	Dr. Nagaraja G S	Professor and Associate Dean (PG), Dept. of CSE, RVCE, Bengaluru	Subject Expert 1	– online –
4	Dr. Jalesh Kumar	Professor and HoD, Department of CSE, JNNCE, Shivamogga	Subject Expert 2	– online –
5	Mr. S. Nagendra Swamy	Program Director, Sharp Software Development India Pvt. Ltd., Bengaluru	Industry Representative	– online –
7	Mr.Rajesh Nambiar	Director, Asia Pacific- Japan, Academic and Learning Alliances, UiPath India, Bengaluru	Industry Representative	– online –
8	Mr.Sharath Chandra	Technical Soln Architect, Sr Specialist, NTT Data, Bengaluru	Industry Representative	– Absent –
9	Mr. Santosh Nag	Staff Software Engineer, GE Healthcare, Bengaluru	Distinguished Alumnus	– online –
10	Dr. R Kanagavalli	Professor, Dept. of CSE, GAT	Member Convener	
11	Dr. Jyothi R	Professor, Dept. of CSE, GAT	Member	
12	Dr.Anitha K	Associate Professor, Dept. of CSE, GAT	Member	
13	Dr. Roshan Joy Martis	Associate Professor, Dept. of CSE, GAT	Member	
14	Prof. Vanishree M L	Assistant Professor, Dept. of CSE, GAT	Member	
15	Dr. H M Rajashekhar Swamy	Dean Academics, GAT	Invited Member	
16	Dr. H B Balakrishna	Principal, GAT	Invited Member	

Department of CSE (Artificial Intelligence and Machine Learning)

GLOBAL ACADEMY OF TECHNOLOGY

(An Autonomous Institute under VTU, Belagavi, Approved by AICTE and Government of Karnataka)
Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru – 560 098

Department of Computer Science & Engineering(AI&ML)

Meeting Date	05th July 2024	**Mode of Meeting**	**Hybrid Mode** Link : https://teams.microsoft.com/l/meetup-join/19%3ameeting_Mzg3YTJmYjAtOGY2ZC00M2Y5LTk3MDgtNzc3ODg1OWExODA1%40thread.v2/0?context=%7b%22Tid%22%3a%227b887c76-d8d8-4448-9bf5-a51820345eb4%22%2c%22Oid%22%3a%220eb8787b-028f-4a7f-9c4e-48fc4a7ddd32%22%7d
Meeting start and end time	10:00 am -01:30 pm	**Meeting Chair**	Dr. Chandramma R Chairman-BOS
Meeting Organizer / Convenor	Dr. Chandramma R	**Meeting Title**	Second Board of Studies Meeting (CSE (AI&ML))for the Academic Year 2024-25
Meeting scribe	Mrs. Saranya Babu	**Drafted Date**	26th July 2024

Attendees	Apologies
Refer Attendance sheet enclosed.	1. Mr. Nataraja K M- Technical Architect, LG soft India, Bengaluru

Meeting agenda:

1. Welcome Address
2. Address by Principal
3. Approval of Proposed Syllabus from 5th semester to 8th semester of 2022 scheme
4. Discussion on changes that have been made in the 2023 Scheme syllabus with respect to 2022 scheme.
5. Approval of Proposed Scheme and syllabus from 3rd to 8th semester of 2023 scheme.
6. Discussion and approval of Value Added Programs
7. Vote of Thanks

Deliberations of the Meeting

1. Mrs Saranya Babu– Assistant Professor, Dept. of CSE(AI&ML) welcomed all the esteemed members of BoS
2. Vision, Mission, PSO's and PEO's of CSE(AI&ML) was disseminated by Dr. Chandramma R.
3. Further the Syllabus from 5th semester to 8th semester of 2022 scheme was presented.
4. Further Chairman-BOS presented the syllabus, course objectives, course outcomes, teaching and learning methodologies and textbooks for the courses.
5. External members and Internal members discussed and gave their opinion for the course syllabus proposed in the presence of the Honourable Chair.
6. Dr. Chandramma R presented the scheme and syllabus of 2023 scheme from 3rd to 8th semester
7. Mrs Saranya Babu concluded the BOS meeting with vote of thanks.

Suggestions by BoS Members			
No	**BoS Member Name**	**Suggestions by BoS Members**	**Remarks / Responses by the Honourable Chairs'**
1	Dr. B.M. Sagar	A. Advised to include practicals for the subject 22CML71 Natural Language processing	Honourable chair has agreed to have a look into the same after reviewing the syllabus
		B. Suggested to include latest edition textbooks for all the subjects	Agreed to update with the latest edition textbooks
		C. MOOC details can be added in Lesson plan instead of syllabus	Convinced that MOOC details are added in syllabus as per the format of the institution
		D. Advised to have 3 to 4 programs for few integrated courses and to include a mini project	Agreed to include a mini project in 23CML42 Database Management Systems
		E. Asked to recheck Module 4 and 5 in the subject 22CML644 Foundation Of Data Science	Syllabus will be checked again
2	Dr. Sachin Prabhu	A. Suggested to merge Module 2 and 5 of 22CML553 Fundamentals of Internet Of Things, and to include network options and communication models in Module 5	Agreed to review and make necessary changes in the syllabus
		B. Asked to include ETL and ELT tools in 22CML554 Datamining & Warehousing	Necessary changes can be incorporated after discussion with peer team
		C. Asked to incorporate the changes in DevOps 22CML61 with including Kubernetics , Dockers in a Module	
		D. Asked to add concepts on AI with IoT for the subject 22CML643 AI for IOT	
		E. Advised to include one module as Prompt Engineering in 22CML651 Chat GPT-AI Learning models	
		F. Suggested to include Introduction to tools for UML drawing, user stories/requirements capture in 23CML44 Software Engineering	Agreed to incorporate the topics in 23CML44 Software Engineering subject
		G. Suggested to include Introduction to Virtual Machines in 23CML34 Operating System	Clarified that virtual machine concept is covered in Introduction and virtual memory management topic is included in Module 5 of 23CML34
		H. Suggested to Include a very brief introduction to various options like PowerBI, Dashboard tools like Grafana, Prometheus in 22CML56 Data Visualization. This will help students be aware of existence of other options	Syllabus will be reviewed and necessary changes may be incorporated
		I. Asked to check Modules 1, 2 and 5 22CML644 Foundation Of Data Science – for overlap with modules in other subjects. Specifically subjects related to machine learning, maths, and python	
		J. Suggested to keep Module 1 as Probability in 22CML824 Statistical Inference for Data science	Honourable chair clarified that the concepts of Probability is covered in 4th sem 22MAT41A Probability and Linear Algebra

3	Mr. Vijay Muniraj	A. Appreciated for including the IOT track elective courses in the syllabus	Syllabus will be reviewed
		B. Advised to have AI /ML ethics to be included as a topic or module in 22CML52 Foundations Of Machine Learning	
		C. Suggested to include Container, Docker in DevOps 22CML61	Syllabus can be updated including the topics of docker and other tools as it is necessary for students.
		D. Insisted to keep 22CML61 DevOps as either integrated or completely lab-oriented subjects	
4.	Dr. Indiramma R	a. Advised to rename 22CML743 Industrial Iot and Industry 4.0 as Industrial IoT	Title will be changed as all the BOS members suggested for the same.
		b. Suggested to include last module of 22CML71 Natural Language Processing to have Generative AI or large language models	Syllabus will be reviewed and necessary changes can be done.
		c. Case studies to be included for 22CML51 Management, Economics and Finance for IT Engineers	
		d. Asked to mention simulator tool in 22CML52 Computer Networks lab component	The tool name will be updated in syllabus
		e. Suggested to check on Things Network as a module to be included in AI for IoT	Syllabus will be reviewed again, recent textbooks will be included in syllabus
		f. Advised to check for advanced Textbook for Business Intelligence & Analytics 22CML744	
		g. Sugeested to include Auto Encoders, Graph Neural Networks or Generative Adversial Networks as a module in Deep Learning 22CML72	
5.	Dr. Vinod	A. Suggested to rename Foundations of Machine Learning as Fundamentals of Machine Learning and asked to use latest edition Textbook	Title correction will be done
		B. Advised to give the title as Lab Experiments instead of Laboratory component in the syllabus for all the integrated courses	Necessary changes will be done as it is a general suggestion
		C. Advised not to use the keyword Demonstrate in the lab programs and to use Apply or Using.	
		D. Suggested to include Actuators and sensors in 22CML553 of Fundamentals of IOT	Honourable chair has agreed to revise the syllabus including these topics
		E. Advised to make Natural Language Processing as lab oriented	
		F. Suggested to change the subject name of 22CML833 IOT cloud and Data Analytics to IoT for Cloud and Data analytics	Subject title will be updated
6.	Dr. Kanagavalli R	A. Asked to reduce Module 1 in Compiler Design Subject	Module 1 of Compiler Design will be revisited
7	Dr. Kumaraswamy S	A. Suggested to include edge and fog computing as 2 Modules in IoT Cloud and Data Analytics 22CML833	Syllabus will be revisited

BOS Chair, Dr. Chandramma R has presented the 2023 Scheme and syllabus, discussed the main changes with respect to 22 Scheme, The changes discussed are:-

In semester 3,

- **23CML33 Fundamentals of Python Programming (Integrated)** subject has been introduced.
- **23CML36 Computer Organization and Architecture** subject has been introduced instead of 22CML33 Digital Design and Computer Organization
- **23CMLL37 Data Structures Laboratory** has been introduced as a separate lab component

In Semester 4,

- **23CMLL47 Design and Analysis of Algorithms Laboratory** has been introduced as a separate lab component

Honourable Chair has brought into the notice that, From Semester 5 to Semester 8 syllabus of 2023 Scheme has been kept same as of 2022 scheme, all the changes that has to be incorporated in 22 scheme as per the BOS members suggestions will be updated in 2023 scheme syllabus as well.

All BOS members have accepted the changes that has been discussed in 2023 scheme syllabus.

Value Added Program

- Honourable Chair has presented that Value added Program on "Full Stack Web Development" has been conducted from 24th June to 28th June 2024 for the 4th semester of 2022 batch.
- Value Added Program on Digital Logic Design will be conducted for 2023 batch 3rd Semester students

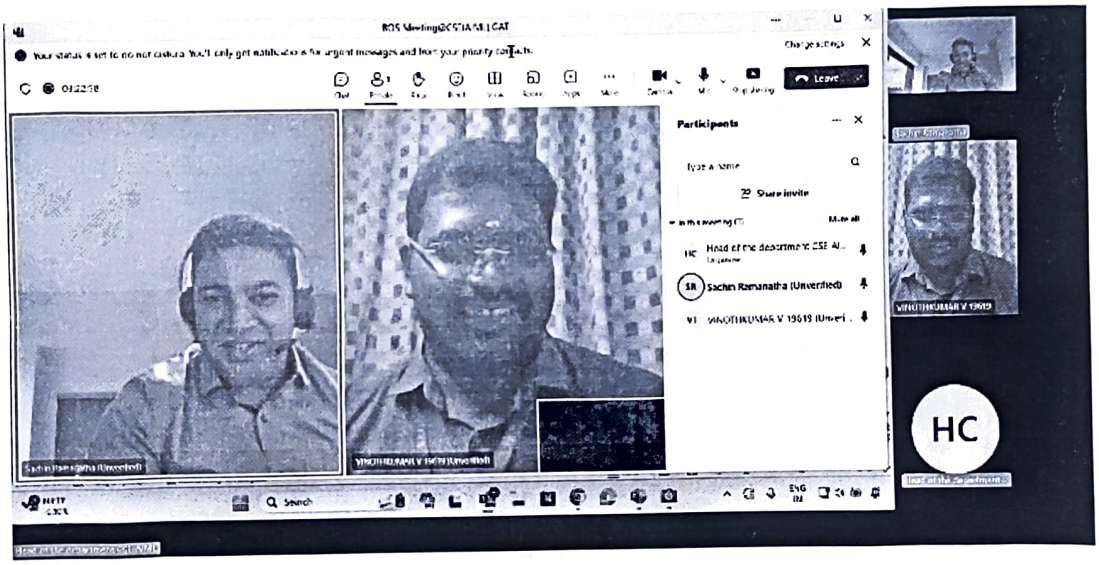
The scheme and syllabus pertaining to 2022 scheme and 2023 scheme has been set keeping in mind the recent technologies development and the skill requirements in the industry.

Finally all members have approved the scheme and syllabus of 5th to 8th semester of 2022 scheme and 3rd to 8th semester of 2023 scheme with actions taken as mentioned below.

1. **22CML51 MANAGEMENT, ECONOMICS AND FINANCE FOR IT ENGINEERS-** Case Studies has been included in Module 1,2 and 3
2. **22CML52 Computer Networks:** Added **NS2** Simulator tool for Computer Networking
3. **22CML53 FOUNDATIONS OF MACHINE LEARNING-** Title Renamed as Fundamentals of Machine Learning, Ethics topics has been included in Module 1.
4. **22CML54 COMPILER DESIGN** -Reframed Module 1 as suggested.
5. **22CML553 Fundamentals of Internet of Things-** Sensors, Actuators and smart Objects are included in Module 4 and Module 5 has been reframed with IP as the IoT Network layer
6. **22CML554 DATA MINING & DATA WAREHOUSING-** Introduced a case study using Pentaho Data Integration Tool for ETL operation and process in Module 1
7. **22CML56 DATA VISUALIZATION-** introduced a Case Study on Design and creation of data, storing a data, delete using Power BI tool in Module 2
8. **22CML61 DevOps-** Gitlab, Dockers, Jenkins, Nagios, Ganglia tools has been included in the subject
9. **22CML643 AI for IoT-** Subject named as **Networking and Data Analysis in IoT.**, LoRaWAN tool used to design security for Networks has been added in Module 2, Case study added to IoT analytics platforms ((e.g., AWS IoT Analytics, Google Cloud IoT)introduced in Module 3.,Added tools for Edge Computing Frameworks using Microsoft Azure IoT Edge, AWS IoT Greengrass, and Google Edge TPU in Module 5
10. **22CML644 FOUNDATION OF DATA SCIENCE-** Title Renamed as **Fundamentals of Data Science,** verified in all subjects ,Minor topics like supervised learning, linear regression is needed as it is essential for the subject.
11. **22CML651 ChatGPT-AI Learning models** - added prompt engineering in Module 5.
12. **22CML71 NATURAL LANGUAGE PROCESSING** - Added Generative AI application in Module 5, Lab component has been introduced

13. **22CML72 Deep Learning (Integrated)**- Syllabus has been revised including Auto Encoders and GAN in Module 4 of Deep Learning as suggested
14. **22CML743 INTRODUCTION TO INDUSTRY 4.0 & INDUSTRIAL IOT**- Title Renamed as Industrial IoT
15. **22CML833 IOT CLOUD AND DATA ANALYTICS**- Renamed as **IoT for Cloud and Data analytics.** Included the topics Edge and Fog Computing.
16. **23CML44 Software Engineering** StarUML tool has been introduced for UML design

GLIMPSES OF BOS MEETING



Dr. Chandramma R
H.O.D , Dept. of CSE(AI&ML)

HEAD OF THE DEPARTMENT
Dept. of Computer Science & Engineering (AI & ML)
Global Academy of Technology
Bangalore-560 098

Dr. H M Rajashekar Swamy
Dean - Academics

Dean Academic
Global Academy of Technology,
Rajarajeshwarinagar, Bengaluru-98

Dr. N. Ranapratap Reddy
Principal

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

Global Academy of Technology
(An Autonomous Institution, affiliated to VTU, Belagavi, recognized by Karnataka and Approved by AICTE, New Delhi.)

Department of CSE(AIML)

05.7.2024

BOS Members Attendance List

Sl. No.	Designation	Name	Affiliation	Signature
1.	Chairman	Dr. Chandramma R	Professor & HOD Dept. of CSE(AI&ML), GAT, Bengaluru.	5/7/2024
2.	VTU Nominee	Dr. B. M Sagar	Prof. & HOD, Dept.of ISE, RV College of Engineering, Bengaluru-560059	5/7/2024
3.	Academic Subject Expert	Dr. Sachin Prabhu	Research Software Engineer University of Leeds, United Kingdom	Online
4.	Academic Subject Expert	Dr. Indiramma	Professor, Dept. of CSE, BMS College of Engineering, Bengaluru-	5/7/2024
5.	Industry Representative	Mr. Nataraja K M	Technical Architect, LG soft India, Bengaluru.	—
6.	Industry Representative	Mr. Vijay Muniraj	Assistant Director/ Product Engineering Lead EY(Earnest and Young) Bengaluru.	
7.	Member	Dr. Kumara Swamy S	Professor & HOD Dept. of CSE, GAT, Bengaluru.	
8.	Member	Mrs. Saranya Babu	Assistant Professor, Dept. of CSE(AI&ML), GAT, Bengaluru.	
9.	Member	Mrs. Hemalatha	Assistant Professor, Dept. of CSE(AI&ML), GAT, Bengaluru.	
10	Member	Dr. Kanagavalli R	Professor, Dept. of CSE, GAT Bengaluru.	
11	Invited Member	Dr.V.Vinoth Kumar	Associate Professor School of Computer Science and Information Systems	Online

			(SCORE), Vellore Institute of Technology,Vellore,India.	
12	Invited Member	Dr. N. Ranapratap Reddy	Principal, GAT,Bengaluru	
13	Invited Member	Dr. Rajashekara Swamy	Dean Academics, GAT, Bengaluru	

HOD
CSE(AIML)

Dean- Academics
GAT

Dr. N. Ranapratap Reddy
Principal

GLOBAL ACADEMY OF TECHNOLOGY
(Autonomous) Approved by AICTE, New Delhi, Affiliated to VTU
Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru - 560098
Department of CSE(AI & ML)
+91 80 28603158(Ext - 306) hodcseaiml@gat.ac.in www.gat.ac.in

Minutes of the Board of Studies(BOS) Meeting

Meeting Date	31 May 2025	**Mode of Meeting**	**Hybrid Mode** Link:https://teams.microsoft.com/l/meetup-join/19%3ameeting_MDk5ZTlkYTItNWRkYS00MTVjLWFhYzctZDA2MjVjMmIyMmQ0%40thread.v2/0?context=%7b%22Tid%22%3a%227b887c76-d8d8-4448-9bf5-a51820345eb4%22%2c%22Oid%22%3a%22bf168489-33b3-4bb9-a7c5-cfb41aed4381%22%7d
Meeting start and end time	10:00 am -01:00 pm	**Meeting Chair**	Dr. Chandramma R Chairman-BOS
Meeting Organizer / Convenor	Dr. Chandramma R	**Meeting Title**	Third Board of Studies(BOS) Meeting (CSE (AI&ML)) for the Academic Year 2025-26
Meeting scribe	Mrs. Saranya Babu	**Drafted Date**	04 June 2025

Attendees	Apologies
Refer Attendance sheet enclosed.	Nil

Meeting agenda:

1. Welcome Address
2. Address by Principal
3. Approval of 2024 Scheme (3rd to 8th Semester).
4. Approval of 2024 Syllabus of 3rd Semester and 4th Semester
5. Approval of Value-Added Program & Skill Development Program for the AY 2025-26
6. Approval of Changes with respect to 2022 and 2023 scheme framework
7. Integration of MOOC courses for 2022 Scheme and 2023 Scheme.
8. Vote of Thanks

Deliberations of the Meeting

1. Dr. Shruthi B V– Associate Professor, Dept. of CSE(AI&ML) welcomed all the esteemed members of Board of Studies.
2. Dr. H.B. Balakrishna ,Principal addressed the members of Board of Studies (BOS).
3. Vision, Mission, PSO's and PEO's of CSE(AI&ML) was disseminated by Dr. Chandramma R.
4. Further the Scheme from 3rd semester to 8th semester of 2024 scheme was presented.
5. Further Chairman-BOS presented the syllabus of 2024 scheme 3rd semester and 4th semester with course objectives, course outcomes, teaching and learning methodologies and textbooks for the courses.
6. External members and Internal members discussed and gave their opinion for the course syllabus proposed in the presence of the Honourable Chair.

			retain DevOps in 5th semester itself. Titles will be reframed
		E. Asked to recheck with the title Network and Data Analysis in IOT with respect to the syllabus.	Title will be checked against the contents.
		F. Suggested to change the title Fundamentals of Data Science BCI24603D to Data Science	Agreed to reframe the title.
		G. Asked for the importance of having Compiler Design BCI24603 as a core course	Clarified that Compiler design BCI24603 course is very important for the students as their branch is not merely AIML but CSE(AIML) that requires the fundamental knowledge of computer science subjects.
		H. Suggested to introduce Big Data	Agreed to look into any slots possible to incorporate.
		I. Advised to introduced Project management tool or case studies in Software Engineering BCI24404	Syllabus will be reviewed
3	Mr. Vijay Muniraj	A. Suggested to introduce MLOps BCI24556B and DevOps BCI24556D in different semesters.	Agreed to introduce MLOps in 6th semester as the students complete Machine learning course and to retain DevOps in 5th semester itself. Title will be redefined.
		B. Advised to expand the title of MLOps and DevOps	
		C. Suggested to reframe the course title Server Side Scripting BCI24556D	The title will be rechecked based on the syllabus.
		D. Virtual Reality BCI24801D can be changed to Web3 Programming	Honourable chair clarified that the subject listed in 8th semester is from NPTEL and the title given was Virtual Reality.
		E. Mr. Vijay provided an insightful overview of the software platforms **Guidewire** and **Duck Creek**, which are extensively utilized in the insurance and related industry. He emphasized their growing significance and high demand in the current market. Mr. Vijay suggested that equipping students with training in these platforms would be advantageous, enhancing their employability and readiness for careers in the insurance technology sector.	Honourable Chair has requested to have a training for the students for Guidewire and Duck creek software's.

GLOBAL ACADEMY OF TECHNOLOGY
(Autonomous) Approved by AICTE, New Delhi, Affiliated to VTU
Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru - 560098
Department of CSE(AI & ML)
+91 80 28603158(Ext - 306) hodcsaiml@gat.ac.in www.gat.ac.in

4.	Dr. Indiramma R	a. Suggested to define MLOps BCI24556B as Machine Learning Operations course and similarly for DevOps.	The titles will be reframed.
		b. Suggested to plan some course outcomes in few courses for SDG'S	Will plan course outcomes accordingly
5.	Dr. Vinoth Kumar	A. Suggested to reframe the title Software Engineering and Agile to Software Engineering	Title correction will be done
		B. Suggested to check with the course Networking and Data Analysis In Iot BCI24603C, and other elective courses can be added	Syllabus will be reviewed and Honourable chair has clarified that it is the second course in the elective track, and hence other course cannot be introduced
		C. Suggested to reframe Fundamentals of Machine Learning BCI24503 and open elective Introduction to Machine Learning BCI24604C as Machine Learning	
		D. Advised to check module 3 of Operating system and change the topic "Deadlock detection and recovery from deadlocks" to "Deadlock detection and recovery"	Syllabus will be reviewed

BOS Chair Dr. Chandramma R has presented the **Value-Added Program & Skill Development Program** for the AY 2025-26 and has taken the approval for the following courses.

Value Added Programs AY: 2025-26

2024 batch
- 3rd semester- Augmented Reality & Virtual Reality
- 4th semester-Data Analytics with python

2023 batch
- 5th semester –Android Application Development
- 6th semester- Django with ML

2022 batch
- 7TH semester- Competitive coding with mock drive

Skill Development Courses- AY: 2025-26

2024 BATCH
- 3rd semester – Advanced Python
- 4th semester – Internet of Things

2023 BATCH
- 5th Semester- Internet of Things
- 6th semester - Problem Solving Using C (OS, DS, ADA, DBMS)

Mr. Vijay provided an insightful overview of the software platforms **Guidewire** and **Duck Creek**, which are extensively utilized in the insurance and related industry. These courses may be included after discussing with the team.

Dr. Chandramma R has presented the **changes in the scheme framework** with respect to 2022 and 2023 Scheme. The major changes discussed are: -

- Incorporation of Mandatory courses like NSS/PE/YOGA as per VTU guidelines

GLOBAL ACADEMY OF TECHNOLOGY
(Autonomous) Approved by AICTE, New Delhi, Affiliated to VTU
Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru - 560098
Department of CSE(AI & ML)
+91 80 28603158(Ext - 306) hodcseaiml@gat.ac.in www.gat.ac.in

- Change in evaluation pattern of zero credit courses as there will be only CIE for 100 marks and NO SEE shall be conducted

Dr. Chandramma R has presented the **Incorporation of MOOC courses** in 8th semester for 2022 and 2023 scheme.
The same has been documented as Amendment and the approval has been taken from the BOS members.

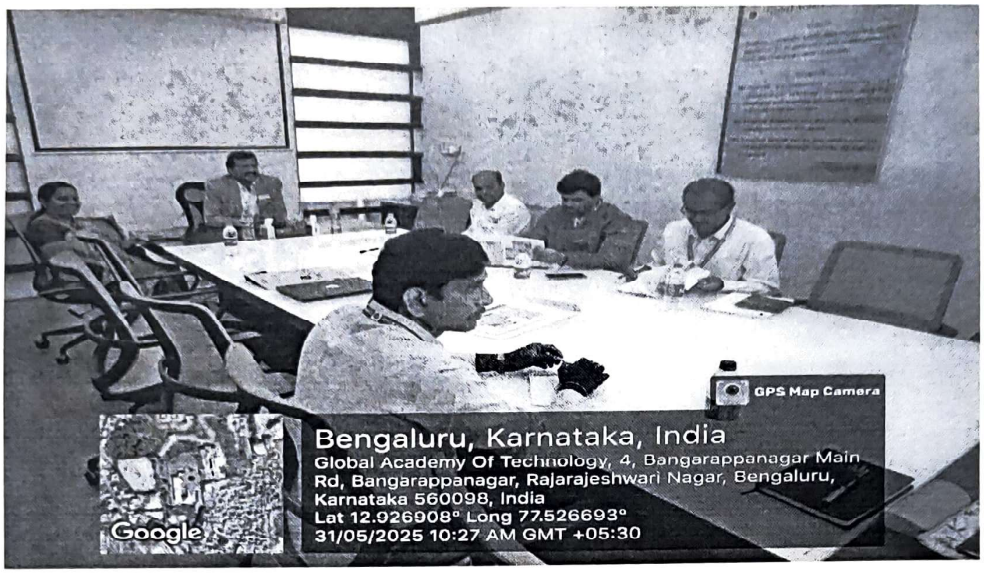
The 2024 scheme courses have been framed considering the **Employability, Skill development and Entrepreneurship** criteria for the students.

Finally, all members have approved the 2024scheme from 3rd to 8th semester and syllabus of 3rd and 4th semester with actions taken as mentioned below.

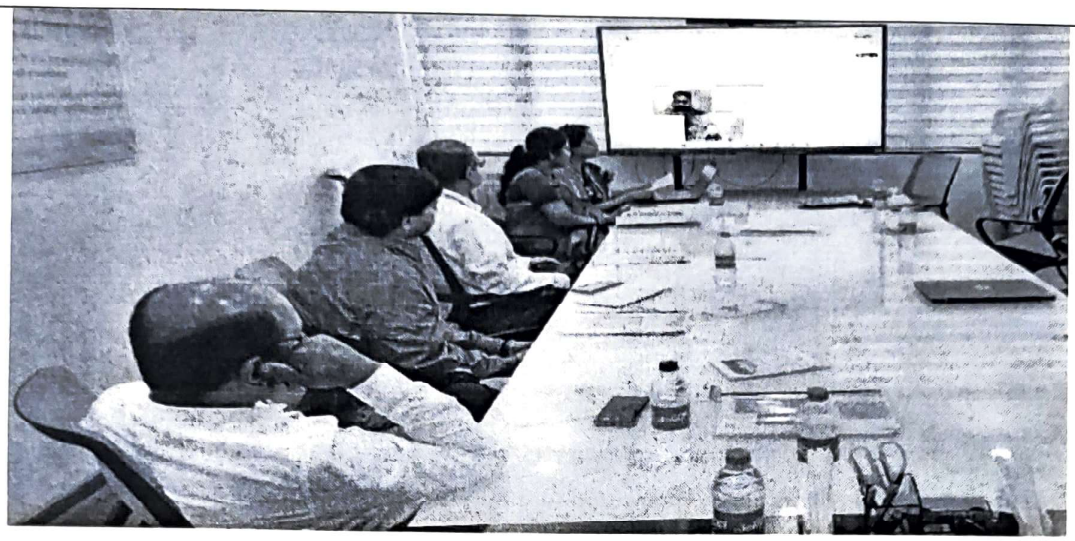
1. **BCI24303 Digital Logic Design and Computer Organization-** Lab program execution using simulation tool will be considered.
2. **BCI24304 Data Structures-** Title has been reframed as **Data Structures and its Applications.**
3. **BCI24404 Software Engineering & Agile-** Title reframed as **Software Engineering** and case study regarding project management tool is already included in the syllabus.
4. **BCI24457C MERN-** Title has been reframed as **MERN Stack Development**
5. **BCI24457B Programming in Julia-** The course has been shifted to 5th semester and **Haskell Programming BCI24457B** has been introduced instead.
6. **BCI24556B MLOps** – The course has been shifted to 6th semester and **Programming in Julia BCI24556B** has been introduced.
7. **BCI24556D DevOps** – The title has been reframed as **DevOps Workflow Essentials**.
8. **BCI24604C Introduction to Machine Learning-** The title has been reframed as **Machine Learning**
9. **BCI24657A Applied MLOps Techniques** course has been introduced in 6th semester by reframing the title **MLOps.**
10. **BCI24603D Fundamentals of Data Science –** Title reframed as **Data Science.**

GLOBAL ACADEMY OF TECHNOLOGY
(Autonomous) Approved by AICTE, New Delhi, Affiliated to VTU
Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru - 560098
Department of CSE(AI & ML)
+91 80 28603158(Ext - 306) hodcsaiml@gat.ac.in www.gat.ac.in

GLIMPSES OF MEETING



GLOBAL ACADEMY OF TECHNOLOGY
(Autonomous) Approved by AICTE, New Delhi, Affiliated to VTU
Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru - 560098
Department of CSE(AI & ML)
+91 80 28603158(Ext - 306) hodcseaiml@gat.ac.in www.gat.ac.in



09/06/25

Dr. Chandramma R
Chairman, BOS- CSE(AI&ML)

Dean-Academics
Global Academy of Technology

Principal
Global Academy of Technology

HEAD OF THE DEPARTMENT
Dept. of Computer Science & Engineering (AI & ML)
Global Academy of Technology

Dean Academic
Global Academy of Technology,
Rajarajeshwarinagar, Bengaluru-98

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

GLOBAL ACADEMY OF TECHNOLOGY
(Autonomous) Approved by AICTE, New Delhi, Affiliated to VTU
Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru - 560098
Department of CSE(AI & ML)
+91 80 28603158(Ext - 306) hodcseaiml@gat.ac.in www.gat.ac.in

BOARD OF STUDIES MEETING

31-05-2025

BOS Members Attendance List

Sl. No.	Designation	Name	Affiliation	Signature
1.	Chairman	Dr. Chandramma R	Professor & HOD Dept. of CSE(AI&ML), GAT, Bengaluru.	31/5/25
2.	VTU Nominee	Dr. B. M Sagar	Prof. & Dean Student Affairs, Dept.of ISE, RV College of Engineering, Bengaluru-560059	31/5/25
3.	Academic Subject Expert	Dr. Indiramma	Professor, Dept. of CSE, BMS College of Engineering, Bengaluru-	Online
4.	Academic Subject Expert	Dr.V.Vinoth Kumar	Associate Professor School of Computer Science and Information Systems (SCORE), Vellore Institute of Technology, Vellore, India.	online
5.	Academic Subject Expert	Dr. Sachin Prabhu	Research Software Engineer University of Leeds, United Kingdom	online
6.	Industry Representative	Mr. Vijay Muniraj	Assistant Director/ Product Engineering Lead, EY(Earnest and Young) Bengaluru.	
7.	Industry Representative	Mr. Nataraja K M	Technical Architect, LG soft India, Bengaluru.	Online
8.	Member	Dr. Kumara Swamy S	Professor & HOD Dept. of CSE, GAT, Bengaluru.	SKSwamy

9.	Member	Dr. Lokanna Kadakolmath	Associate Professor, Dept. of CSE(AI&ML), GAT, Bengaluru.	Lkadakolmath
10.	Member	Dr. Shruti B V	Associate Professor, Dept. of CSE(AI&ML), GAT, Bengaluru.	BV
11.	Member	Mrs. Saranya Babu	Assistant Professor, Dept. of CSE(AI&ML), GAT, Bengaluru.	
12.	Invited Member	Dr. Balakrishna H B	Principal, GAT,Bengaluru	
13.	Invited Member	Dr. Latha Rajagopal	Dean Academics, GAT, Bengaluru	31/05/25

31/5/25
HOD
CSE(AIML)

HEAD OF THE DEPARTMENT
Dept. of Computer Science & Engineering (AI &ML)
Global Academy of Technology
Bangalore- 560 098.

31/05/25
Dean Academics

Dean Academic
Global Academy of Technology,
Rajarajeshwarinagar, Bengaluru-98

Dr. Balakrishna H B
Principal

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

Department of Electronics and Communication Engineering

GLOBAL ACADEMY OF TECHNOLOGY

Department of Electronics Communication
Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru-560098

Date:14/09/2024

Agenda : Finalization and Approval of

2022 scheme and Syllabus (2023 batch)- 3rd to 8th sem
2022 syllabus of first year (2024 batch)
Modification of 2022 Scheme and Syllabus (2022 batch) – 5th to 8th sem, Value Added Course

	Name	Designation	Signature
1	Dr.Manjunath Reddy H S HOD/ECE, Global Academy of Technology	Chairman	14/9/24
2	Dr T Srinivas Professor, Dept of ECE Indian Institute of Science, Bengaluru-12	Member(Subject Expert)	
3	Dr S B Bhanu Prashanth Professor, Dept of Medical Electronics BMS College of Engineering, Bengaluru-19	Member(Subject Expert)	
4	Dr A V Narasimhadhan Associate Professor, Dept of ECE, National Institute of Technology, Suratkal -575025	Member(VTU Nominee)	
5	Dr Kiran Y M Architect, Robert Bosch, Bengaluru	Member(Industry)	Kiran 14/9/24
6	Dr Jayaprakash Sabarad Senior Technical Engineer, Wabtec India Industrial Private Limited ITC Green Centre, Bengaluru- 560005	Member(Industry)	-AB-
7	Gavarav Vanawat Senior Program Lead and Architect SAP Labs India Pvt Ltd , Whitefield , Bengaluru-66	Member(Alumni)	-AB-
8	Dr Ramya K V, Assistant Professor, ECE, GAT	Member(Convener)	
9	Dr Ravi J, Professor, ECE, GAT	Member	14/9/24
10	Dr Ananadthirtha B Gudi, Principal , ACS College of Engineering	Member	-AB-
11	Dr Manjunatha R C, Professor, ECE, GAT	Member	
12	Dr Leeelavathi H P, Professor, ECE, GAT	Member	14/09/24
13	Dr H K Sheedhar, Professor, ECE, GAT	Member	14/9/24
14	Dr H B Balakrishna, Principal, Global Academy of Technology	Invited Member	
15	Dr Rajashekhar Swamy H M Dean, Global Academy of Technology	Invited Member	

GLOBAL ACADEMY OF TECHNOLOGY

(Autonomous institution affiliated to VTU, Belagavi)
Ideal Homes Township, Raja Rajeshwari Nagar, Bengaluru-560098

BOS - ELECTRONICS AND COMMUNICATION ENGINEERING

MINUTES OF MEETING

Date: 14/9/24

Agenda:

1. 2022 Scheme and Syllabus for 2023 batch- 3rd to 8th semester
2. Syllabus of First Year courses for 2024 batch

Meeting Discussion:

BOS- ECE meeting was held on 14/09/2024 at conference Hall (Placement Block). Chairman welcomed everyone to the BOS meeting. Principal addressed the Importance of framing Curriculum and advised to add Emerging Technology Courses to the curriculum. Dean stressed on Credit Distribution and about ability enhancement courses to improve employability.

Chairman Presented 2022 Scheme and Syllabus for 2023 batch in detail and also courses for first year 2024 batch.

Resolution:

1. **BOS resolved 3rd to 8th semester -2023 batch with the followings:**

Syllabus of 2023 batch is same as 2022 scheme with inclusion of mandatory courses such as Social Connect and Responsibility, National Service Scheme (NSS), Physical Education (PE) (Sports and Athletics), and Yoga along with few changes as mentioned below. Scheme and Syllabus of 2023 batch is approved.

Sl No.	Suggestions	Action
2	Verilog HDL can be only laboratory component.	Exclusive separate laboratory on Verilog HDL is added.
3	Control system - Include PID controller	Included as suggested
4	Suggested to make all programming subjects as IPC/Lab Component	Suggestions are incorporated
5	Suggested to use more simulation tools for circuit design subjects	Simulation tools such as Multisim, Pspice, MATLAB, NS2 and COMSOL are included in the curriculum.
6	Include 8051 Microcontroller lab	A VAP will be conducted

2. Syllabus of First Year courses for 2024 batch:

Syllabus of First Year courses for 2024 batch such as Basic Electronics and Introduction to Electronics and Communication and Introduction to Embedded System are discussed and approved.

3. Value added Courses:

The Value added Courses such as Engineering solutions with COMSOL multiphysics, Hands on 8051 Microcontroller and Introduction to DBMS were approved

Chairman
BOS (ECE)
14/9/24

Dr. Manjunatha Reddy H.S
M.Tech, Ph.D
Professor and HOD
Department of Electronics and Communication Engg.
Global Academy of Technology
Bengaluru-98

Global Academy of Technology

(An Autonomous Institution, affiliated to VTU, Belagavi, recognized by Karnataka and Approved by AICTE, New Delhi.)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date:19-05-2025

Minutes of 6th Meeting of Board of Studies (BOS)

GLOBAL ACADEMY OF TECHNOLOGY
(Autonomous institution affiliated to VTU, Belagavi)
Ideal Homes Township, Raja Rajeshwari Nagar, Bengaluru-560098

17/05/2025

BOARD OF STUDIES – DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

6th BoS Meeting

Sl. No.	Name	Designation	Signature
1	Dr. Madhavi Mallam	Chairman	17/05/25
2	Dr. Vijay Prakash	Member (Subject Expert)	17/05/25
3	Dr. S B Bhanu Prashanth	Member (Subject Expert)	
4	Dr. A V Narasimhadhan	Member (VTU Nominee)	← online Attended →
5	Mr. Kiran Y M	Member (Industry)	← on line Attended →
6	Mr. Santhosh Surya Kiran Kolluri	Member (Industry)	17/05/25
7	Ms. Sahithi	Member (Alumini)	← Not Attended →
8	Dr. H B Balakrishna	Invited Member	
9	Dr. Latha Rajagopalan	Member	17/05/25
10	Dr. Ravi J	Member	17/5/2025
11	Dr. Shreedhar H K	Member	17/5/25
12	Dr. Leelavathi H P	Member	
13	Dr. Manjunatha R C	Member	
14	Mrs. Suma K R	Member	
15	Mr. Tilak Kumar L	Member Convener	

Signature of the Head of Dept.

Signature of the Dean
17/05/25
Dean Academic
Global Academy of Technology,
Rajarajeshwarinagar, Bengaluru-98

Signature of the Principal
PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

- **Discussion and Approval of B.E. Scheme (III to VIII semesters) and syllabi (III & IV semesters) of 2024 Batch**
  - The meeting began by informing the Members about the agenda points considering the proposed B.E. Scheme (III to VIII semesters) and syllabi (III & IV semesters) of 2024 Batch as the initial agenda point based on the priority.
  - The members were deliberated about the course structure for III and IV semesters. Courses distributed under different groups were informed to the members present. The members were informed that Operating Systems is included as per the industry inputs. Internet of Things is included in the curriculum as emerging technology course.
  - We finalized specialized verticals i.e. Embedded System, VLSI SoC Design Backend, VLSI SoC Design Frontend and Edge AI courses through Industry experts for enhancing the skill of students.
  - Digital Image Processing Laboratory has been considered as ability enhancement course so that the student can get practical exposure to Digital Image Processing. Further the student will learn the basics of Image Processing also with relevant hands on experience.
  - Members appreciated the newly introduced courses such as Industrial Robotics, Introduction to AR and VR.
  - Also suggested to move Engineering Electromagnetics from Professional Elective to core subject and other members agreed upon it.
  - Further members suggested to combine Digital Circuits and Verilog HDL courses to form Digital System Design using Verilog.
  - Dr. S B Bhanu Prashanth has suggested a text book for Biology for Engineers by G.K.Suraishkumar.
  - The members also gone through the Course outcomes of relevant courses.

- **Information on Teaching Learning Process:**
  - It was told that senior faculty members are being deputed for handling core courses. In particular, Professors are allocated for I and II year courses to the possible extent.
  - Various practices in teaching and learning which are in line with the OBE guidelines, were also informed. Continuous monitoring of student's learning is being carried out and necessary actions are being taken there of to strengthen the teaching and learning process as informed.
  - It was also told that advanced training programs are also offered to students.

- **Information on Academic Performance of the students for the A.Y 2024-25 (ODD Sem)**
  - The members have been informed about the academic performance of the students for the odd semester courses for the A.Y:2024-25.
  - It was informed that the courses with poor pass percentage were identified and remedial courses have been arranged for students having backlogs.

- **Information & Discussion on R&D and Training & Placement Activities for the A.Y: 2024- 25:**
  - The statistics of R&D activities were put before the members by the BoS chairman. It was told that good number of publications were done by the faculty in the department and statistics of the R&D achievements were put before the members.
  - It was told that quality publications in the department are increased and the faculty members are publishing articles in Q2 and Q3 journals.
  - Seed money is being sanctioned by the institution to carry out fundamental research, particularly for the faculty who are pursuing their Ph.D.
  - It was also told that numerous R & D initiatives are being taken place in the department.
  - Consultancy work has been initiated in the department and efforts are on to have MOUs with reputed organizations for strengthening the department.
  - The placement statistics of the department for the A.Y:2024-25 were put before the members.

➢ **Information on events organized & Attended for the A.Y 2024-25:**

- The chairman informed the members about the various activities that have been organized in the department. To strengthen the faculty, students and non-teaching staff activities are being organized in the department. However, it was mentioned that the main agenda is syllabus framing only; the other things can be carried out as per the department requirements.
- The achievements of the students during the Academic Year: 2023-24 were informed to the members.

19/5/25
Chairman
Board of Studies
HEAD OF THE DEPARTMENT
Dept. of Electronics & Communication Engg.
Global Academy of Technology
Rajarajeshwarinagar, Bangalore - 98

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

19/05/25
Dean Academic
Global Academy of Technology,
Rajarajeshwarinagar, Bengaluru-98

Department of Electrical and Electronics Engineering

Global Academy of Technology
An Autonomous Institution Affiliated to Visvesvaraya Technological University, Belgavi
Approved by UGC, AICTE and Govt. of Karnataka
NBA Accredited CSE, CV, ECE, EEE, ISE and ME Programmes

Minutes of the meeting of Board of Studies in Department of Electrical and Electronics Engineering

As per the VTU autonomous guidelines and directions from Principal & Dean (Academic) of Global Academy of Technology. Board of Studies Meeting held on **10th August 2024 at 10:00 am** in in the department of Electrical and Electronics Engineering (HOD Chamber).

The following members attended the meeting:

1	Dr. DEEPIKA MASAND	Chairman
2	Dr. R.S GEETHA	Subject Expert 1
3	Dr. FELIX ORLANDO MARIA JOSEPH (online)	Subject Expert 2
4	Dr. PRATHAP REDDY (online)	Subject Expert 3
5	Dr. PARIMALA	VTU Nominee
6	Mrs. KUSUMA N	Industry representative
7	Mr. VISHWAS	A distinguished Alumnus
8	Dr. HEMACHANDRA REDDY K	Member convenor
9	Mr. BALAGOPAL REDDY G	Member
10	Dr. RUMA SINHA	Member
11	Mrs. NAGARATHNA K	Member
12	PRINCIPAL	Invited Member
13	DEAN	Invited Member

The following are the minutes of the meeting:

- The meeting started with welcome address and introduction of BoS members by Prof. Hemachandra Reddy, Associate Professor, Deptt. of EEE, GAT.
- The agenda of the meeting was presented by Dr. Deepika Masand, Professor & HOD.
- It was proposed that the Schemes be aligned with the VTU Schemes.
- Under the 2021 and 2022 scheme, VII Sem Open Elective 21EEE752/22EEE752 Energy Conservation and Auditing, offered to other branches was replaced by Smart Internet of things, after presenting the syllabus and due approval by the board.

Global Academy of Technology
An Autonomous Institution Affiliated to Visvesvaraya Technological University, Belgavi
Approved by UGC, AICTE and Govt. of Karnataka
NBA Accredited CSE, CV, ECE, EEE, ISE and ME Programmes

- Scheme of teaching and syllabus from IIIrd - VIIIth semester under 2023 scheme was discussed and approved.

- Under the 2023 scheme, the list of courses introduced from the previous 2021 scheme were presented (Annex I)

- List of Program / Open Electives and courses, focussing on Employability, Entrepreneurship and Skill development were also presented, for 2023 scheme. (Annex II)

- The First Year syllabus of Introduction to Electrical Engineering, Elements of Electrical Engineering, Electromechanical Measurements & Systems and Sensor Systems offered by the department, under 2024 scheme was discussed and approved.

- Finally, the list of Value Added Programs proposed to be conducted during the next academic session 2024-25 were also discussed and noted.

- The suggestions from all the members was recorded individually and finalized as enclosed.

- All the members authorised the chairman to incorporate changes suggested in the syllabus and approved the same.

- The meeting ended with vote of thanks.

S.No.	BoS Members	Signature
1	Dr. DEEPIKA MASAND	
2	Dr. R.S GEETHA	
3	Dr. FELIX ORLANDO MARIA JOSEPH	attended online
4	Dr. PRATHAP REDDY	attended online.
5	Dr. PARIMALA	
6	Mrs. KUSUMA N	
7	Mr. VISHWAS	
8	Mr. HEMACHANDRA REDDY K	
9	Mr. BALAGOPAL REDDY G	
10	Dr. RUMA SINHA	
11	Mrs. NAGARATHNA K	
12	PRINCIPAL	
13	DEAN	

GLOBAL ACADEMY OF TECHNOLOGY

Ideal Homes Township, R R Nagar, Bengaluru-98

Department of Electrical and Electronics Engineering

Attendance report for the Board of Studies Meeting held on 10th August 2024 at 10:00 am in in the department of Electrical and Electronics Engineering, Global Academy of Technology, Bengaluru.

MEMBERS			
Sl. No.	**Name**	**Designation**	**Signature**
1	Dr. DEEPIKA MASAND	Chairman	
2	Dr. R.S GEETHA	Subject Expert 1	10/8/2024
3	Dr. FELIX ORLANDO MARIA JOSEPH	Subject Expert 2	Attended Online
4	Dr. PRATHAP REDDY	Subject Expert 3	Attended Online
5	Dr. PARIMALA	VTU Nominee	10/8/24
6	Mrs. KUSUMA N	Industry representative	10/08/2024
7	Mr. VISHWAS	A distinguished Alumnus	10-8-2024
8	Mr. HEMACHANDRA REDDY K	Member convenor	10/08/2024
9	Mr. BALAGOPAL REDDY G	Member	10/08/2024
10	Dr. RUMA SINHA	Member	10/8/24
11	Mrs. NAGARATHNA K	Member	10/8/24
12	PRINCIPAL	Invited Member	10/8
13	DEAN	Invited Member	

Global Academy of Technology
An Autonomous Institution Affiliated to Visvesvaraya Technological University, Belgavi
Approved by UGC, AICTE and Govt. of Karnataka
NBA Accredited CSE, CV, ECE, EEE, ISE and ME Programmes

Proceeding of the meeting of Board of Studies in Electrical and Electronics Engineering.

As per the VTU autonomous guidelines and directions from Principal & Dean (Academic) of Global Academy of Technology. Board of Studies Meeting held on **24th May 2025 at 10:00 am** in the department of Electrical and Electronics Engineering (HOD Chamber).

The following members attended the meeting:

1	Dr. DEEPIKA MASAND	Chairman
2	Dr. R.S GEETHA	Subject Expert 1
3	Dr. FELIX ORLANDO MARIA JOSEPH	Subject Expert 2
4	Dr. PRATHAP REDDY	Subject Expert 3
5	Dr. PARIMALA	VTU Nominee Industry representative
6	Mrs. KUSUMA N	
7	Mr. VISHWAS	A distinguished Alumnus
8	Dr. HEMACHANDRA REDDY K	Member convenor
9	Dr. RUMA SINHA	Member
10	Dr. NAGARATHNA K	Member
11	Mr. BALAGOPAL REDDY G	Member
12	PRINCIPAL	Invited Member
13	DEAN	Invited Member

The following are the minutes of the meeting:

- The meeting started with welcome address and introduction of BoS members by Dr. Hemachandra Reddy K, Associate Professor, Deptt. of EEE, GAT.

- The following agenda of the meeting was presented by Dr. Deepika Masand, Professor & HOD.

Agenda No.	Details
1	Approval of 2024 Scheme III – VIII Semesters
2	Approval of Syllabus III & IV Semester 2024 Scheme

- Scheme of teaching from III - VIII semester under 2024 scheme was discussed and approved.
- Syllabus of III & IV Semester, 2024 Scheme was discussed and approved along with CO PO mapping.
- Under the 2024 Scheme the list of courses revised / introduced from the previous 2023 scheme were presented. (Annex 1)
- List of Program / Open Electives and courses, focussing on Employability, Entrepreneurship and Skill development were also presented, for 2024 scheme. (Annex II)
- The list of Value added courses and Skill based program for the Academic Year 2025-26 were also discussed and approved.
- The board was apprised of the achievements of the department.
- The suggestions from all the members was recorded individually and finalized as mentioned below:

Suggestions by External Members			
S.No.	**External Member Name**	**Suggestions**	**Remarks**
1	Dr. PARIMALA	• Since BEE24406A – Data Structures Using C is an ETC course, the experiments can be shown as an Activity. • Suggested to include Basics of Magnetic circuits and concepts of Rotating Magnetic field in Electrical Machines course. • Include SCI Lab based experiments in Electrical Machines lab only.	The suggestions were agreed, to be incorporated.
2	Dr. R.S GEETHA	• It was proposed Industrial Drives and Application to be taught as a Program Core and Internet of things should be included in the Professional Elective Basket. • In the Power Electronics course include design in every Module. • Online course on Power Converter Design to be encouraged under MOOCs or should be conducted as a Value Added Program	

3	Dr. PRATHAP REDDY	• It was suggested to include Digital Logic Design as a PCC course. • BEE24556D Data Analytics with Excel was proposed to be shifted to IV Sem as Data Handling with MS Excel, focussing on fundamentals and PCB Design to be included in V Sem • Signal Processing to be taught as an IPCC course in VI Semester. • A new course on Battery Management Systems was proposed instead of Image Processing as a Professional Elective in the VIII Semester. • Suggested to include Basics of Magnetic circuits and concepts of Rotating Magnetic field in Electrical Machines course. • Briefly reduce the content in all Modules of Electrical Machines.	
4	Mrs. KUSUMA N	• BEE24457C- Arduino based Projects, GUI to be introduced. • In Analog Electronics, simulation experiments of Wave shaping circuits should be included.	
5	Mr. VISHWAS	• 4th semester maths course can be designed considering the foundations of AI & ML and included in the ETC basket. • BEE24556D Data Analytics with Excel was proposed to be shifted to IV sem as Data Handling with MS Excel, focussing on fundamentals and PCB Design to be included in V Sem • BEE24457C- Arduino based Projects, before starting the projects, basic understanding of logic to be provided.	

- Finally, all the members authorised the chairman to incorporate changes suggested in the syllabus and approved the same.
- The meeting ended with vote of thanks.

Chairman-BOS, HOD-EEE, GAT

GLOBAL ACADEMY OF TECHNOLOGY, BANGALORE

Department of Electrical & Electronics Engineering

Annexure I

List of Courses Revised (IIIrd & IVth Semester)
2024 Scheme

Sl. No.	Sub Code	Name of Subject	Remarks
1	BEE24303	Analog Electronics Circuits	Revised by 10%
2	BEE24304	Electric Circuits	Revised by 10%
3	BEE24403	Power Systems I	Revised by 10%

List of Courses Introduced
2024 Scheme

Sl. No.	Sub Code	Name of Subject	Remarks
	BEEL24305	MATLAB Programming	PCCL Course
	BEE24306C	Computer Organization & Architecture	Included under Emerging Technology Course
	BEE24358A	Electrical Hardware Lab	Included under Ability Enhancement Course
	BEE24358C	Python Programming for Electrical Applications	Included under Ability Enhancement Course
	BEE24457B	Data Analytics with Excel	Included under Ability Enhancement Course
	BEE24457C	Arduino Based Projects	Included under Ability Enhancement Course
	BEE24457D	Assembly Language Programming	Included under Ability Enhancement Course
	BEE24556B	Data Visualization using Power BI	Included under Ability Enhancement Course
	BEE24556C	Project Management with GIT	Included under Ability Enhancement Course
	BEE24556D	PCB Design	Included under Ability Enhancement Course
	BEE24657B	Python Programming for ML Application	Included under Ability Enhancement Course
	BEE24801A	AI Techniques for Electric Vehicles	Included under Professional Elective
	BEE24802C	Embedded Systems for EV Application	Included under Professional Elective

GLOBAL ACADEMY OF TECHNOLOGY, BANGALORE

Department of Electrical & Electronics Engineering

Annexure II

List of Professional / Open Elective Courses

2024 Scheme

Sl. No.	Sub Code	Name of Subject	Remarks
1	BEE24515A	Embedded Systems	Professional Elective Course I
2	BEE24515B	OOPS Using C++	Professional Elective Course I
3	BEE24515C	Utilization of Electrical Power	Professional Elective Course I
4	BEE24515D	Technologies of Renewable Energy Sources	Professional Elective Course I
5	BEE24613A	Introduction to AI&ML	Professional Elective Course II
6	BEE24613B	Micro Grid	Professional Elective Course II
7	BEE24613C	VLSI Design	Professional Elective Course II
8	BEE24613D	Internet of Things (IoT)	Professional Elective Course II
9	BEE24714A	Switched Mode Power Converter	Professional Elective Course III
10	BEE24714B	FACTS & HVDC	Professional Elective Course III
11	BEE24714C	Robotics & Automation	Professional Elective Course III
12	BEE24714D	Big DATA Analytics in Power System	Professional Elective Course III
13	BEE24801A	AI Techniques for Electric Vehicles	Professional Elective Course IV

14	BEE24801B	Battery Management Systems	Professional Elective Course IV
15	BEE24801C	Electrical power Quality	Professional Elective Course IV
16	BEE24801D	Soft Computing Techniques	Professional Elective Course IV
17	BEE24802A	Programmable Logic Controllers	Professional Elective Course V
18	BEE24802B	Advance Control Systems	Professional Elective Course V
19	BEE24802C	Embedded Systems for EV Application	Professional Elective Course V
20	BEE24802D	Energy Conservation & Auditing	Professional Elective Course V
21	BEE24654A	Electric Vehicles	Open Elective Course I
22	BEE24654B	Industrial Automation	Open Elective Course I
23	BEE24654C	Technologies of Renewable Energy Sources	Open Elective Course I
24	BEE24654D	Utilization of Electrical Power	Open Elective Course I
25	BEE24755A	Smart IoT	Open Elective Course II
26	BEE24755B	Smart Grid Technology	Open Elective Course II
27	BEE24755C	Energy Storage System	Open Elective Course II
28	BEE24755D	Energy Auditing	Open Elective Course II

GLOBAL ACADEMY OF TECHNOLOGY, BANGALORE

Department of Electrical & Electronics Engineering

Annexure II

List of Courses on Employability/Entrepreneurship/Skill Development

2024 Scheme

Sl. No	Course Code	Name of the Course	Employability	Entrepreneurship	Skill Development
1	BEE24302	Electrical Machines-I	Yes		
2	BEE24303	Analog Electronics Circuits	Yes		
3	BEE24304	Electric Circuits	Yes		
4	BEEL24305	MATLAB Programming			Yes
5	BEE24306A	Digital Logic Design	Yes		Yes
6	BEE24306B	Measurements & Instrumentation	Yes		Yes
7	BEE24306C	Computer Organization & Architecture	Yes		
8	BEE24306D	Electro Magnetic Field Theory	Yes		
9	BEE24358A	Electrical Hardware Lab		Yes	Yes
10	BEE24358B	Circuits Lab Using LT SPICE			Yes
11	BEE24358C	Python Programming for Electrical Applications	Yes		Yes
12	BEE24358D	Measurement Lab			Yes
13	BEE24402	Electrical Machines-II	Yes		
14	BEE24403	Power System-I	Yes		
15	BEE24404	Control Systems	Yes		
16	BEEL24405	Control Systems Lab			Yes
17	BEE24457A	Digital Logic Design Lab			Yes
18	BEE24457B	Data Handling with EXCEL			Yes
19	BEE24457C	Arduino Based Projects		Yes	Yes

20	BEE24457D	Assembly Language Programming			Yes
21	BEE24406A	Data Structures Using C	Yes		Yes
22	BEE24406B	Engineering Materials	Yes		
23	BEE24406C	Digital Systems Design using Verilog HDL	Yes		
24	BEE24406D	Micro Electrical Mechanical Systems (MEMS)	Yes		
25	BEE24501	Engineering Economics & Management		Yes	
26	BEE24502	Power Electronics	Yes		
27	BEE24503	Power Systems-II	Yes		
28	BEEL24504	AUTO CAED		Yes	Yes
29	BEEP24507	Mini Project		Yes	Yes
30	BRMK24557	Research Methodology and IPR		Yes	
31	BEE24505A	Embedded Systems	Yes		Yes
32	BEE24505B	OOPS Using C++	Yes		
33	BEE24505C	Utilization of Electrical Power	Yes		
34	BEE24505D	Technologies of Renewable Energy Sources	Yes		
35	BEE24556A	Embedded C Programming			Yes
36	BEE24556B	Data Visualization using Power BI			Yes
37	BEE24556C	Project Management with GIT		Yes	Yes
38	BEE24556D	PCB Design		Yes	Yes
39	BEE24601	Signal Processing	Yes		Yes
40	BEE24602	Power System-III	Yes		
41	BEE24603	Industrial Drives & Applications	Yes		
42	BEEP24606	Project Phase I		Yes	Yes
43	BEEL24607	Power System Simulation Lab			Yes
44	BEE24604A	Introduction to AI&ML	Yes		
45	BEE24604B	Micro Grid	Yes		
46	BEE24604C	VLSI Design	Yes		Yes

47	BEE24604D	Internet of Things (IoT)	Yes		
48	BEE24657A	Signal Processing Lab			Yes
49	BEE24657B	Python Programming for ML Application			Yes
50	BEE24657C	Energy Audit Projects		Yes	
51	BEE24657D	Project on Renewable Energy Sources		Yes	
52	BEE24701	Power System-IV	Yes		
53	BEE24702	Electric Vehicles	Yes		
54	BEE24703	Smart Grid	Yes		
55	BEEP24706	**Major Project Phase-II**		Yes	Yes
56	BEE24704A	Switched Mode Power Converter	Yes		
57	BEE24704B	FACTS & HVDC	Yes		
58	BEE24704C	Robotics & Automation			Yes
59	BEE24704D	Big DATA Analytics in Power System	Yes		
60	BEE24803	Internship			Yes
61	BEE24801A	AI Techniques for Electric Vehicles	Yes		Yes
62	BEE24801B	Battery Management Systems	Yes		
63	BEE24801C	Electrical power Quality	Yes		
64	BEE24801D	Soft Computing Techniques	Yes		
65	BEE24802A	Programmable Logic Controllers			Yes
66	BEE24802B	Advance Control Systems	Yes		
67	BEE24802C	Embedded Systems for EV Application	Yes		Yes
68	BEE24802D	Energy Conservation & Auditing		Yes	

GLOBAL ACADEMY OF TECHNOLOGY

Idealhomes Township, Rajarajeshwari Nagar, Bengaluru-560098

Department of Electrical & Electronics Engineering

List of Approved Value Added Courses

ACADEMIC Year 2025-26

1. EV Design & Modelling
2. Hands On Industrial Automation & Robotics
3. STM 32 ARM Processors
4. AI and ML Applications in Power Systems
5. Design of Power Electronic Converters

Department of Information Science and Engineering

GLOBAL ACADEMY OF TECHNOLOGY

(An Autonomous Institute under VTU, Belagavi, Approved by AICTE and Government of Karnataka)
Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru – 560 098

Department of Information Science and Engineering

(Accredited by NBA 2022-2025)

BOS Members- Department of Information Science and Engineering
Academic Year 2024-25

Sl. No	Designation	Name & Designation	Affiliation	Signature
1	BOS Chairman	Dr. Kiran Y C	Professor and Head-ISE Global Academy of Technology, Bengaluru	
2	VTU-Nominee	Dr. Sanjay. H.A	Principal, BMSIT&M, Bengaluru	ONLINE
3	Subject Expert-1	Dr. V.N. Manjunath Aradhya	Professor Dept. of Computer Applications JSS Science and Technology University, Mysore	ONLINE
4	Subject Expert-2	Dr. Hareesha K.S.	Professor, Department of Data Science & Computer Applications, MIT, Manipal, Manipal Academy of Higher Education (MAHE), MANIPAL	ONLINE
5	Subject Expert-3	Dr. B H Shekar	Professor, Department of Computer Science, Mangalore University, Mangala Gangotri, Mangalore	ONLINE
6	Industry Representative	Manjunath Shantharamu	Principal Engineer & Technical Lead | Ph.D. | Driving Innovation & Solutions at Samsung, Mysore, Karnataka.	
7	Member Convener	Dr. Bhagyashri R Hanji	Professor-ISE Global Academy of Technology, Bengaluru	17/5/25
8	Member	Dr Vimuktha E Salis	Professor-ISE, Global Academy of Technology, Bengaluru	ONLINE
9	Member	Dr. Nirmala H	Professor-ISE Global Academy of Technology, Bengaluru	17/5/25
10	Member	Prof. Sharmila. C	Assistant Professor- ISE Global Academy of Technology, Bengaluru	17/5/25
11	Invited Member	Dr. H B Balakrishna	Principal, Global Academy of Technology, Bengaluru	
12	Invited Member	Dr. Latha R	Dean-Academics, GAT Bengaluru.	11/05/25

Signature of the Head of Dept.

Signature of Principal

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

Global Academy of Technology

(An Autonomous Institute, affiliated to VTU, Belagavi, recognized by Govt. of Karnataka and Approved by AICTE, New Delhi.)

Department of Information Science and Engineering
Draft Minutes of Meting

Meeting Date & Time	17th May 2025, 10:00am-1:00pm	Mode of Meeting	Blended Mode
https://teams.microsoft.com/l/meetup-join/19%3ameeting_MDQwMzJjMjUtOTdmZC00MTFlLThjNGEtYmU4ZDYwNWVmM2Rm%40thread.v2/0?context=%7b%22Tid%22%3a%227b887c76-d8d8-4448-9bf5-a51820345eb4%22%2c%22Oid%22% 3a%22ada99544-06a0-4137-a784-d20 8aba2f06d%22%7d			
Meeting Chair	Dr. Kiran Y .C Chairman-BOS	Meeting Convenor	Dr. Bhagyashri R Hanji
Meeting Title	Board of Studies Meeting May 24-25	Drafted Date	20th May 2025

Members Present:

Sl. No	Designation	Name and Designation	Affiliation
1	BOS Chairman	Dr. Kiran Y C	Professor and Head-ISE Global Academy of Technology, Bengaluru
2	VTU-Nominee	Dr. Sanjay. H.A	Principal, BMSIT&M, Bengaluru
3	Subject Expert-1	Dr. V.N. Manjunath Aradhya	Professor Dept. of Computer Applications JSS Science and Technology University, Mysore
4	Subject Expert-2	Dr. Hareesha K.S.	Professor, Department of Data Science & Computer Applications, MIT, Manipal, Manipal Academy of Higher Education (MAHE), MANIPAL
5	Subject Expert-3	Dr. B H Shekar	Professor, Department of Computer Science, Mangalore University, Mangala Gangotri, Mangalore
6	Industry Representative	Manjunath Shantharamu	Principal Engineer & Technical Lead | Ph.D. | Driving Innovation & Solutions at Samsung, Mysore, Karnataka.
7	Member Convener	Dr. Bhagyashri R Hanji	Professor-ISE Global Academy of Technology, Bengaluru
8	Member	Dr Vimuktha E Salis	Professor-ISE, Global Academy of Technology, Bengaluru
9	Member	Dr. Nirmala H	Professor-ISE Global Academy of Technology, Bengaluru
10	Member	Prof. Sharmila. C	Assistant Professor- ISE Global Academy of Technology, Bengaluru
11	Invited Member	Dr. H B Balakrishna	Principal, Global Academy of Technology, Bengaluru
12	Invited Member	Dr. Latha R	Dean-Academics, GAT Bengaluru.

Agenda:

1. Welcome and opening remarks
2. Presentation of proposed 2024 Scheme and Syllabus
3. Presentation of Course revisions (2023 and 2022 scheme)
4. Academic planning for the upcoming year (Value Added Programs, Student Development Programs, Faculty development programs, Inclusion of emerging topics/technologies and industry-relevant content.)
5. Feedback and suggestions from Board members
6. Approval of revised curriculum
7. Any other matter with the permission of the Chair
8. Concluding remarks

Proceedings:

The meeting commenced with a welcome address by Dr. Kiran Y C, BoS Chairman.

Dr. Kiran Y C, Professor & Head-ISE, BoS Chairman presented the scheme of 2024 scheme from third semester to eighth semester

Global Academy of Technology
(An Autonomous Institution, affiliated to VTU, Belagavi, recognized by Karnataka and Approved by AICTE, New Delhi.)
B.E. in Information Science and Engineering
Scheme of Teaching and Examinations (AY 2024-25)

III SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week: Theory Lecture L	Tutorial T	Practical/ Drawing P	SDA S	Examination: Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
1	PCC/BSC	BXX301		TD-PSB	3	0	0		03	50	50	100	3
2	IPCC	BIS24302	Operating System (Integrated)	TD: ISE PSB: ISE	3	0	2		03	50	50	100	4
3	IPCC	BIS24303	Digital Logic Design and Computer Organization (Integrated)	TD: ISE PSB: ISE	3	0	2		03	50	50	100	4
4	PCC	BIS24304	Data Structures and Applications	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
5	PCCL	BIS24L305	Data Structures laboratory	TD: ISE PSB: ISE	0	0	2		03	50	50	100	1
6	ETC/PLC	BIS24306x	ETC/PLC	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
7	UHV	BSCK307	Social Connect and Responsibility	Any Department	0	0	2		01	100	—	100	1
8	AEC/ SEC	BIS24358x	Ability Enhancement Course/Skill Enhancement Course - III		If the course is a Theory: 1	0	0		01	50	50	100	1
					If a course is a laboratory: 0	0	2		02				
9	MC	BNSK359	National Service Scheme (NSS)	NSS coordinator	0	0	2			100	—	100	0
		BPEK359	Physical Education (PE) (Sports and Athletics)	Physical Education Director									
		BYOK359	Yoga	Yoga Teacher									
		BLAK359	Liberal Arts	Prominent NGO									
									Total	550	350	900	20

PCC: Professional Core Course, PCCL: Professional Core Course laboratory, UHV: Universal Human Value Course, MC: Mandatory Course (Non-credit), AEC: Ability Enhancement Course, SEC: Skill Enhancement Course, L: Lecture, T: Tutorial, P: Practical S= SDA: Skill Development Activity, CIE: Continuous Internal Evaluation, SEE: Semester End Evaluation.K :This letter in the course code indicates common to all the stream of engineering. ESC: Engineering Science Course, ETC: Emerging Technology Course, PLC: Programming Language Course

Emerging Technology Course/Programming Language Course (ETC/PLC)			
BIS24306A	Object Oriented Programming with JAVA	BIS24306C	Unix System Programming
BIS24306B	Object Oriented Programming with C++	BIS24306D	Microcontroller
Ability Enhancement Course/Skill Enhancement Course – III			
BIS24358A	R Programming	BIS24358C	Project Management with Git
BIS24358B	Data Analytics with Excel	BIS24358D	Data Visualization with Python

Global Academy of Technology

(An Autonomous Institute, affiliated to VTU, Belagavi, recognized by Govt. of Karnataka and Approved by AICTE, New Delhi.)

Global Academy of Technology

(An Autonomous Institution, affiliated to VTU, Belagavi, recognized by Karnataka and Approved by AICTE, New Delhi)

B.E. in Information Science and Engineering

Scheme of Teaching and Examinations (AY 2024-25)

IV SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week: Theory Lecture L	Tutorial T	Practical/ Drawing P	SDA S	Examination: Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
1	PCC/BSC	BXX401	Maths (to be decided for non-circuit)		3	0	0		03	50	50	100	3
2	IPCC	BIS24402	Database Management System (Integrated)	TD: ISE PSB: ISE	3	0	2		03	50	50	100	4
3	PCC	BIS24403	Design and Analysis of Algorithms	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
4	PCC	BIS24404	Operating System Internals: Linux Focus	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
5	PCCL	BIS24L405	Design and Analysis of Algorithms Laboratory	TD: ISE PSB: ISE	0	0	2		03	50	50	100	1
6	ETC/PLC	BIS24406x	ETC/PLC	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
7	AEC/ SEC	BIS24457x	Ability Enhancement Course/Skill Enhancement Course- IV	TD and PSB: Concerned department	If the course is Theory: 1	0	0		01	50	50	100	1
					If the course is a lab: 0	0	2		02				
8	BSC	BBOK407	Biology For Engineers	TD / PSB: BT, CHE,	1	0	0		01	50	50	100	1
9	UHV	BUHK408	Universal human values course	Any Department	1	0	0		01	50	50	100	1
10	MC	BNSK459	National Service Scheme (NSS)	NSS coordinator	0	0	2			100	—	100	0
		BPEK459	Physical Education (PE) (Sports and Athletics)	Physical Education Director									
		BYOK459	Yoga	Yoga Teacher									
		BLAK459	Liberal Arts	Prominent NGO									
									Total	550	450	1000	20

PCC: Professional Core Course, PCCL: Professional Core Course laboratory, UHV: Universal Human Value Course, MC: Mandatory Course (Non-credit), AEC: Ability Enhancement Course, SEC: Skill Enhancement Course, L: Lecture, T: Tutorial, P: Practical S= SDA: Skill Development Activity, CIE: Continuous Internal Evaluation, SEE: Semester End Evaluation. K :This letter in the course code indicates common to all the stream of engineering.

Ability Enhancement Course / Skill Enhancement Course – IV

BIS24457A	Green IT and Sustainability	BIS24457C	User Interface and User Experience Design
BIS24457B	Capacity Planning for IT	BIS24457D	LaTeX: A Tool for Academic Writing

Emerging Technology Course/Programming Language Course (ETC/PLC)

BIS24406A	Advanced Java	BIS24406C	Modern Database Systems: NoSQL
BIS24406B	Modern Programming Paradigms : Scala	BIS24406D	Concurrent and Scalable Programming: Go Lang

Global Academy of Technology

(An Autonomous Institution, affiliated to VTU, Belagavi, recognized by Karnataka and Approved by AICTE, New Delhi)

B.E. in Information Science and Engineering

Scheme of Teaching and Examinations (AY 2024-25)

V SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week: Theory Lecture L	Tutorial T	Practical/ Drawing P	SDA S	Examination: Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
1	HSMC	BIS24501	Software Engineering and Project Management	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
2	IPCC	BIS24502	Computer Networks (Integrated)	TD: ISE PSB: ISE	3	0	2		03	50	50	100	4
3	PCC	BIS24503	Theory of Computation	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
4	PCCL	BIS24L504	Data Visualization Laboratory	TD: ISE PSB: ISE	0	0	2		03	50	50	100	1
5	PEC	BIS24505x	Professional Elective Course I	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
6	AEC/ SEC	BIS24556x	Ability Enhancement Course/Skill Enhancement Course- V		If the course is Theory: 1	0	0		01	50	50	100	1
					If the course is Lab: 0	0	2		02				
7	PROJ	BIS24P507	Mini Project		0	0	4		03	100	-	100	2
8	AEC	BRMK557	Research Methodology and IPR	Any Department	2	2	0		03	50	50	100	3
9	MC	BESK508	Environmental Studies	civil	1	0	0		01	100	--	100	0
10	MC	BNSK559	National Service Scheme (NSS)	NSS coordinator	0	0	2			100	--	100	0
		BPEK559	Physical Education (PE) (Sports and Athletics)	Physical Education Director									
		BYOK559	Yoga	Yoga Teacher									
		BLAK559	Liberal Arts	Prominent NGO									
									Total	650	350	1000	20

Global Academy of Technology

(An Autonomous Institute, affiliated to VTU, Belagavi, recognized by Govt. of Karnataka and Approved by AICTE, New Delhi.)

Professional Elective Course I			
BIS24505A	Digital Image Processing	BIS24505C	Cloud Computing
BIS24505B	Distributed Systems	BIS24505D	Wireless Sensor Networks
Ability Enhancement Course / Skill Enhancement Course – V			
BIS24556A	Web technology	BIS24556C	OpenGL: Foundations of Graphics Programming
BIS24556B	Lex and Yacc: Tools for Language Processing	BIS24556D	Robotic Process Automation

Global Academy of Technology

(An Autonomous Institution, affiliated to VTU, Belagavi, recognized by Karnataka and Approved by AICTE, New Delhi.)

B.E. in Information Science and Engineering
Scheme of Teaching and Examinations (AY 2024-25)

VI SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week: Theory Lecture (L)	Tutorial (T)	Practical/ Drawing (P)	SDA (S)	Examination: Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
1	IPCC	BIS24601	Full Stack Development	TD: ISE PSB: ISE	3	0	2		03	50	50	100	4
2	PCC	BIS24602	Machine Learning	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
3	PCC	BIS24603	Ethical Hacking	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
4	PEC	BIS24604x	Professional Elective Course II	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
5	OEC	BIS24605x	Open Elective Course I	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
6	PROJ	BIS24P606	Project Phase I	TD: ISE PSB: ISE	0	0	4		03	100	--	100	2
7	PCCL	BIS24L607	Machine Learning Laboratory	TD: ISE PSB: ISE	0	0	2		03	50	50	100	1
8	AEC/SDC	BIS24657x	Ability Enhancement Course/Skill Development Course VI	TD: ISE PSB: ISE	If the course is offered as a Theory: 1	0	0		01	50	50	100	1
					If course is offered as a practical: 0	0	2		02				
9	IKS	BIKS608	Indian Knowledge System	Any Dept.	1	0	0		01	100	—	100	0
10	MC	BNSK659	National Service Scheme (NSS)	NSS coordinator	0	0	2			100	—	100	0
		BPEK659	Physical Education (PE) (Sports and Athletics)	Physical Education Director									
		BYOK659	Yoga	Yoga Teacher									
		BLAK659	Liberal Arts	Prominent NGO									
									Total	650	350	1000	20

Professional Elective Course II			
BIS24604A	Blockchain Technology	BIS24604C	Compiler Design
BIS24604B	5G Technology	BIS24604D	Information Retrieval
Open Elective Course I			
BIS24605A	Introduction to Data Structures	BIS24605C	Mobile Application Development
BIS24605B	Introduction to Operating Systems	BIS24605D	Web Technology
Ability Enhancement Course / Skill Enhancement Course-VI			
BIS24657A	TOSCA- Automated Software Testing	BIS24657C	Generative AI: From Theory to Practice
BIS24657B	React: Building Interactive Web Interfaces	BIS24657D	DevOps: Principles and Practices

Global Academy of Technology

(An Autonomous Institution, affiliated to VTU, Belagavi, recognized by Karnataka and Approved by AICTE, New Delhi.)

B.E. in Information Science and Engineering
Scheme of Teaching and Examinations (AY 2024-25)

VII SEMESTER (Swappable VII and VIII SEMESTER)

Sl. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week: Theory Lecture (L)	Tutorial (T)	Practical/ Drawing (P)	SDA (S)	Examination: Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
1	IPCC	BIS24701	Bigdata Analytics (Integrated)	TD: ISE PSB: ISE	3	0	2		03	50	50	100	4
2	IPCC	BIS24702	Parallel Computing (Integrated)	TD: ISE PSB: ISE	3	0	2		03	50	50	100	4
3	PCC	BIS24703	Information and Network Security	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
4	PEC	BIS24704x	Professional Elective Course / (Online) III	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
5	OEC	BIS24705x	Open Elective Course /(online) II	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
6	PROJ	BIS24P706	Major Project Phase-II	TD: ISE PSB: ISE	0	0	14		03	100	100	200	7
										350	350	700	24

Professional Elective Course III			
BIS24704A	Natural Language Processing	BIS24704C	Social Network Analysis
BIS24704B	Deep Learning	BIS24704D	Software Quality Analysis
Open Elective Course II			
BIS24 705A	Database Management System	BIS24705C	Software Engineering
BIS24 705B	Ethical Hacking	BIS24705D	Unix Shell Programming

PCC: Professional Core Course, PCCL: Professional Core Course laboratory, PEC: Professional Elective Course, OEC: Open Elective Course PR: Project Work, L: Lecture, T: Tutorial, P: Practical S= SDA: Skill Development Activity, CIE: Continuous Internal Evaluation, SEE: Semester End Evaluation. TD- Teaching Department, PSB: Paper Setting department, OEC: Open Elective Course, PEC: Professional Elective Course. PROJ: Project work

Note: VII and VIII semesters of IV years of the program

(1) Institutions can swap the VII and VIII Semester Schemes of Teaching and Examinations to accommodate research internships/ industry internships after the VI semester.

(2) Credits earned for the courses of VII and VIII Semester Scheme of Teaching and Examinations shall be counted against the corresponding semesters whether the VII or VIII semesters is completed during the beginning of the IV year or the later part of IV years of the program.

Global Academy of Technology

(An Autonomous Institution, affiliated to VTU, Belagavi, recognized by Karnataka and Approved by AICTE, New Delhi.)

B.E. in Information Science and Engineering
Scheme of Teaching and Examinations (AY 2024-25)

VIII SEMESTER (Swappable VII and VIII SEMESTER)

Sl. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week: Theory Lecture L	Tutorial T	Practical/ Drawing P	SDA S	Examination: Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
1	PEC	BIS24801x	Professional Elective (Online Courses) IV	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
2	PEC	BIS24802x	Professional Elective (Online Courses) V	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
3	INT	BIS24803	Internship (Industry/Research) (14 - 20 weeks)	TD: ISE PSB: ISE	0	0	12		03	100	100	200	10
										200	200	400	16

Professional Elective Course (Online courses) IV

BIS24801A	Quantum Algorithms and Cryptography https://online.vtu.ac.in/course-details/quantum-algorithms-and-cryptography	BIS24801C	Introduction To Industry 4.0 And Industrial Internet Of Things https://online.vtu.ac.in/course-details/Introduction-To-Industry-40-And-Industrial-Internet-Of-Things
BIS24801B	Reinforcement Learning https://online.vtu.ac.in/course-details/Reinforcement-Learning	BIS24801D	GPU Architectures and Programming https://online.vtu.ac.in/course-details/GPU-Architectures-And-Programming

Professional Elective Course (Online courses) V

BIS24802A	Applied Accelerated Artificial Intelligence https://online.vtu.ac.in/coursedetails/Applied-AcceleratedArtificial-Intelligence	BIS24802C	Introduction To Game Theory And Mechanism Design https://online.vtu.ac.in/coursedetails/Introduction-To-GameTheory-And- Mechanism-Design
BIS24802B	Advanced Distributed Systems https://online.vtu.ac.in/coursedetails/advanced-distributed-systems	BIS24802D	Privacy And Security In Online Social Media https://online.vtu.ac.in/coursedetails/Privacy-and-Security-inOnline-Social-Media

L: Lecture, **T:** Tutorial, **P:** Practical **S= SDA:** Skill Development Activity, **CIE:** Continuous Internal Evaluation, **SEE:** Semester End Evaluation. **TD-** Teaching Department, **PSB:** Paper Setting department, **OEC:** Open Elective Course, **PEC:** Professional Elective Course. **PROJ:** Project work, **INT:** Industry Internship / Research Internship / Rural Internship

Note: VII and VIII semesters of IV years of the program

Swapping Facility

- Institutions can swap VII and VIII Semester Scheme of Teaching and Examinations to accommodate **research internships/ industry internships/Rural Internship** after the VI semester.
- Credits earned for the courses of VII and VIII Semester Scheme of Teaching and Examinations shall be counted against the corresponding semesters whether VII or VIII semester is completed during the beginning of IV year or later part of IV year of the program.

Elucidation:

At the beginning of IV years of the program i.e., after VI semester, VII semester classwork and VIII semester **Research Internship /Industrial Internship / Rural Internship** shall be permitted to be operated simultaneously by the University so that students have ample opportunity for an internship. In other words, a good percentage of the class shall attend VII semester classwork and a similar percentage of others shall attend to Research Internship or Industrial Internship or Rural Internship.

Research/Industrial /Rural Internship shall be carried out at an Industry, NGO, MSME, Innovation center, Incubation centre, Start-up, centre of Excellence (CoE), Study Centre established in the parent institute and /or at reputed research organizations/institutes.

The mandatory Research internship /Industry internship / Rural Internships for 14 to 20 weeks. The internship shall be considered as a head of passing and shall be considered for the award of a degree. Those, who do not take up/complete the internship shall be declared to fail and shall have to complete it during the subsequent University examination after satisfying the internship requirements.

Research Internship: A research internship is intended to offer the flavor of current research going on in the research field. It helps students get familiarized with the field and imparts the skill required for carrying out research.

Industry Internship: Is an extended period of work experience undertaken by students to supplement their degree for professional development. It also helps them learn to overcome unexpected obstacles and successfully navigate organizations, perspectives, and cultures. Dealing with contingencies helps students recognize, appreciate, and adapt to organizational realities by tempering their knowledge with practical constraints.

Rural Internship: Rural development internship is an initiative of Unnat Bharat Abhiyan Cell, RGIT in association with AICTE to involve students of all departments studying in different academic years for exploring various opportunities in techno-social fields, to connect and work with Rural India for their upliftment.

The faculty coordinator or mentor has to monitor the student's internship progress and interact with them to guide for the successful completion of the internship.

The students are permitted to carry out the internship anywhere in India or abroad. University shall not bear any expenses incurred in respect of the internship.

With the consent of the internal guide and Principal of the Institution, students shall be allowed to carry out the internship at their hometown **(within or outside the state or abroad)**, provided favorable facilities are available for the internship and the student remains regularly in contact with the internal guide. **University shall not bear any cost involved in carrying out the internship by students.** However, students can receive any financial assistance extended by the organization.

Professional Elective /Open Elective Course: These are ONLINE courses suggested by the respective Board of Studies. Details of these courses shall be made available for students on the VTU web portal.

Global Academy of Technology

(An Autonomous Institute, affiliated to VTU, Belagavi, recognized by Govt. of Karnataka and Approved by AICTE, New Delhi.)

Global Academy of Technology

(An Autonomous Institution, affiliated to VTU, Belagavi, recognized by Karnataka and Approved by AICTE, New Delhi.)

B.E. in Information Science and Engineering

Scheme of Teaching and Examinations (AY 2024-25)

VI SEMESTER(A)

Sl. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week: Theory Lecture L	Tutorial T	Practical/ Drawing P	SDA S	Examination: Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
1	IPCC	BIS24601	Full Stack Development	TD: ISE PSB: ISE	3	0	2		03	50	50	100	4
2	PCC	BIS24602	Machine Learning	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
3	PCC	BIS24603	Ethical Hacking	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
4	PEC	BIS24604x	Professional Elective Course II	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
5	OEC	BIS24605x	Open Elective Course I	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
6	PROJ	BIS24P606	Project Phase I	TD: ISE PSB: ISE	0	0	4		03	100	--	100	2
7	PCCL	BIS24L607	Machine Learning Laboratory	TD: ISE PSB: ISE	0	0	2		03	50	50	100	1
8	AEC/SDC	BIS24657x	Ability Enhancement Course/Skill Development Course V	TD: ISE PSB: ISE	If the course is offered as a Theory: 1	0	0		01	50	50	100	1
					If course is offered as a practical: 0	0	2		02				
9	IKS	BIKS608	Indian Knowledge System	Any Department	1	0	0		01	100	--	100	0
10	MC	BNSK659	National Service Scheme (NSS)	NSS coordinator	0	0	2	--	---	100	---	100	0
		BPEK659	Physical Education (PE) (Sports and Athletics)	Physical Education Director									
		BYOK659	Yoga	Yoga Teacher									
		BLAK659	Liberal Arts	Prominent NGO									
									Total	650	350	1000	20

Global Academy of Technology

(An Autonomous Institution, affiliated to VTU, Belagavi, recognized by Karnataka and Approved by AICTE, New Delhi.)

B.E. in Information Science and Engineering

Scheme of Teaching and Examinations (AY 2024-25)

VII and VIII semesters for the candidate those who seek an internship with project work (A)

Sl. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week: Theory Lecture L	Tutorial T	Practical/ Drawing P	SDA S	Examination: Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
1	IPCC	BIS24701	Bigdata Analytics (Integrated)	TD: ISE PSB: ISE	3	0	2		03	50	50	100	4
2	IPCC	BIS24702	Parallel Computing (Integrated)	TD: ISE PSB: ISE	3	0	2		03	50	50	100	4
3	PCC	BIS24703	Information and Network Security	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
4	PEC	BIS24704x	Professional Elective Course/Online III	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
5	OEC	BIS24705x	Open Elective Courses/Online II	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
1	PEC	BIS24801x	Professional Elective (MOOC Courses) IV	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
2	PEC	BIS24802x	Professional Elective (MOOC Courses) V	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
3	INT	BIS24803	Internship (Industry/Research) (02 semesters)	TD: ISE PSB: ISE	0	0	12		03	100	100	200	10
4	PROJ	BIS24P804	Major Project II - outcome of training	TD: ISE PSB: ISE	0	0	14		03	100	100	200	7
										550	550	1100	40

Curriculum Revision: Approval of 2022 and 2023 scheme

Sl. No	Subject Code	Subject Name	Remarks
1	ISE23405A	Blockchain Technology	Students have not been exposed to foundational subjects such as Computer Networks, Data Communication, and Cryptography. As a result, their understanding of blockchain technology is limited to an abstract level. The proposed syllabus, therefore, focuses on providing only general insights into blockchain concepts, including an overview of Ethereum and Bitcoin
2	ISE23603B	Ethical Hacking	A few topics from the prescribed textbook were not included, as they were not aligned with the objectives of the module. Relevant changes have been made to ensure the content remains focused and appropriate
3	ISE23607A	Mobile Application Development.	Since it is a 1 credit course so only lab components were retained.
4	ISE23705A	Introduction to DBMS	CLO4 and CLO5 is defined as earlier only three CLO were there
5	22ISE72 ISE23702	Industrial Internet of Things (Integrated)	The revision in the syllabus for the Industrial IoT subject was necessitated due to the extensive nature of the previous content, which was not aligning with the available instructional hours. The earlier syllabus included multiple modules with a broad scope, making it difficult to cover all essential topics effectively within the given timeframe. To ensure better alignment with the academic schedule and to facilitate focused and in-depth learning, the syllabus has been streamlined. The updated content emphasizes core concepts and practical applications, enabling a more structured and efficient delivery of the subject matter.
6	22ISE61 ISE23601	Full Stack Development	Django is a single framework, MERN is combination of 4 technologies MERN is suitable for real-time application and is a popular technology for developing web application. It Stack's flexibility in crafting dynamic web applications.
7	22ISE62 22ISEL66 ISE23602 ISEL23606	Machine Learning Machine Learning Lab	Machine Learning fundamentally revolves around data. The previous syllabus did not adequately address how data is represented or the relationships among different data types. These foundational concepts are essential for students to build a strong understanding of

			machine learning techniques. The earlier syllabus lacked sufficient detail leading to ambiguity. The syllabus has been updated to align with the revised theory syllabus. The updated lab syllabus includes practical programs that directly correspond to the topics covered in the revised Machine Learning syllabus, ensuring better integration between theory and practice.

Proposed Student Development Programs / Value added Programs

1	Software Testing Tools and Techniques
2	Block Chain Technologies
3	Quantum Computing and its Applications
4	Augmented Reality Virtual Reality
5	Cybersecurity Strategies and Ethical Hacking

Proposed Faculty Development Programs

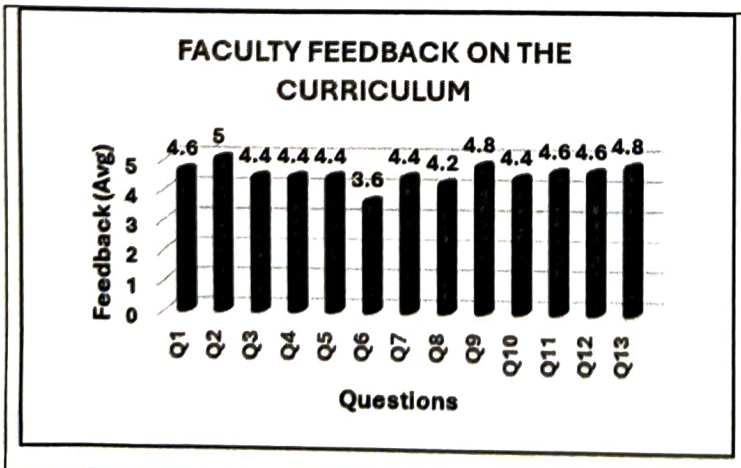
1	Quantum Computing and its Application
2	Digital Forensics
3	Edge and Fog Computing in IoT

Proposed Interdisciplinary Subjects

1	Understanding IOT beyond IT
2	Machine Learning for Non-IT
3	Data Visualization for Non-IT
4	Ethical Hacking

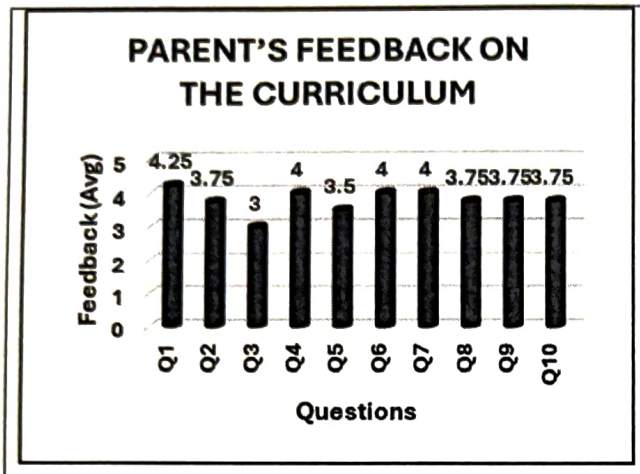
Feedback from stakeholder

1. **Faculty Feedback on the Curriculum**



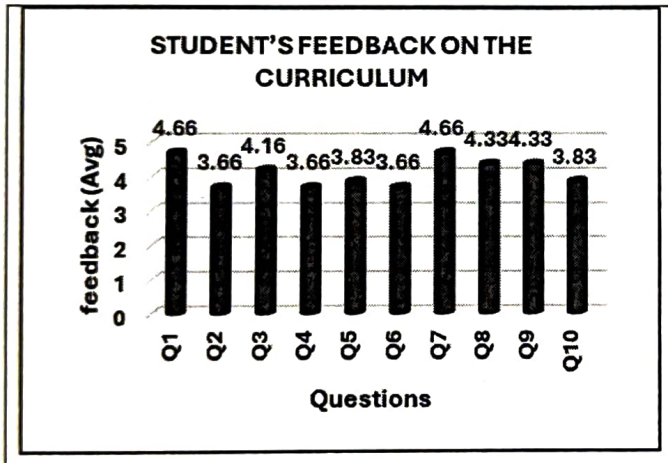
1. Incorporate interdisciplinary courses.
2. Syllabus needs to be updated as per industry requirements along with keeping foundational subjects.
3. The courses must not be changed for minimum 2 years to evaluate the outcome.
4. Regular updating is necessary to meet industrial gap.

2. Parent's Feedback on the Curriculum



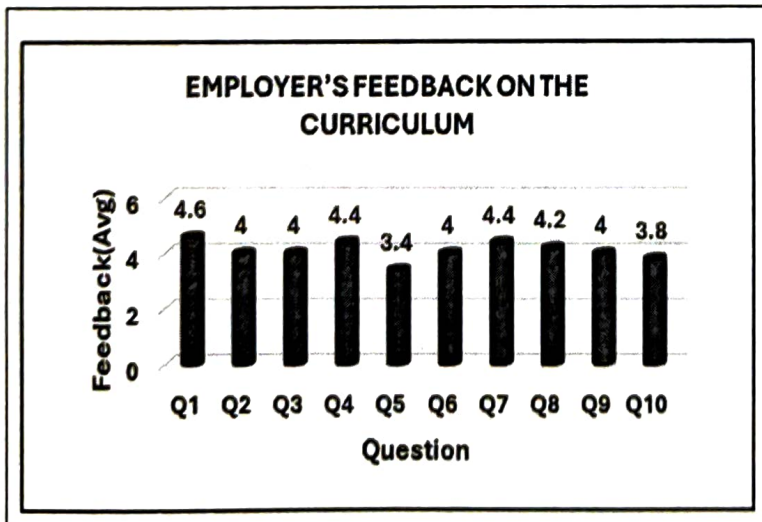
1. Should be good balance between theoretical knowledge and practical applications though in the college.
2. Syllabus needs to be in sync with the recent.
3. Global trends in IT space/industry.

3. Students' Feedback on the Curriculum



1. Reduce theoretical subjects and include more technical subjects instead.
2. Need more practical solving subjects.
3. A good balance between theoretical knowledge and practical application is well appreciated. Otherwise, the overall curriculum is well structured
4. Should be given more focus on practical application.
5. Syllabuses need to be in sync with recent

4. Employer's Feedback on the Curriculum



1. Focus on more hands on especially in emerging technologies - like AIML, Data Engineering, Visualization tools such as power BI.
2. More Industry visits would help
3. Include additional elective to keep up with the latest Technology. Include some & project management in the course for better carrier options
4. Promote interdisciplinary learning and personalised pathway for preparation of students in corporate world.

Credit Distribution (3rd to 8th meeting)

COURSE COMPONENT	CREDITS	% OF CREDITS
BASIC SCIENCE (BS)	7	5.83
PROGRAM CORE (PCC)	21	17.5
PROGRAM CORE INTEGRATED LAB (IPCC)	28	23.33
PROGRAM CORE EXCLUSIVE LAB (PCCL)	4	3.33
ETC/PLC	6	5
UHV	2	1.66
AEC/SEC	7	5.83
HSMC	3	2.5
PROGRAM ELECTIVE (PEC)	15	12.5
OPEN ELECTIVE (OEC)	6	5
Project (PROJ)	11	9.16
INTERNSHIP (INT)	10	8.33
TOTAL	120	100%

Discussion and Recommendation in BOS Meeting:

It was suggested to introduce courses such as Prompt Engineering for Large Language Models (LLMs), Prompt Engineering for Generative AI, The Art of Prompt Engineering with ChatGPT, Web Scraping with Python, Programming Computer Vision with Python, and Developing Applications using GPT-4 and ChatGPT.

It was also recommended to organize a workshop on IoT, recognizing it as a current industry demand, and to collaborate with industry partners for project development and implementation.

The quality of assignments given as part of certification courses should be elevated to meet the standards expected of higher-level certification programs.

It was also suggested to make student participation in departmental and interdepartmental events mandatory, and to encourage them to engage in events hosted by other campuses — and, if possible, in other states — to broaden their exposure and enhance their overall learning experience.

It was recommended to enhance the quality of student projects by aligning them with the Sustainable Development Goals (SDGs) and encouraging an interdisciplinary approach across various domains

Global Academy of Technology

(An Autonomous Institute, affiliated to VTU, Belagavi, recognized by Govt. of Karnataka and Approved by AICTE, New Delhi.)

Updated Scheme after incorporating the suggestion from BOS meeting

Global Academy of Technology

(An Autonomous Institution, affiliated to VTU, Belagavi, recognized by Karnataka and Approved by AICTE, New Delhi.)

B.E. in Information Science and Engineering

Scheme of Teaching and Examinations (AY 2024-25)

III SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week: Theory Lecture L	Tutorial T	Practical/ Drawing P	SDA S	Examination: Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
1	PCC/BSC	BMATS24301	Discrete Mathematics	TD:Maths PSB:Maths	3	0	0	0	03	50	50	100	3
2	IPCC	BIS24302	Operating System (Integrated)	TD: ISE PSB: ISE	3	0	2	0	03	50	50	100	4
3	IPCC	BIS24303	Digital Logic Design and Computer Organization (Integrated)	TD: ISE PSB: ISE	3	0	2	0	03	50	50	100	4
4	PCC	BIS24304	Data Structures and Applications	TD: ISE PSB: ISE	3	0	0	0	03	50	50	100	3
5	PCCL	BISL24305	Data Structures laboratory	TD: ISE PSB: ISE	0	0	2	0	03	50	50	100	1
6	ETC/PLC	BIS24306x	ETC/PLC	TD: ISE PSB: ISE	3	0	0	0	03	50	50	100	3
7	UHV	BSCK24307	Social Connect and Responsibility	Any Department	0	0	2	0	01	100	---	100	1
8	AEC/ SEC	BIS24358x	Ability Enhancement Course/Skill Enhancement Course - III		If the course is a Theory: 1	0	0	0	01	50	50	100	1
					If a course is a laboratory: 0	0	2		02				
9	MC	BNSK24359	National Service Scheme (NSS)	NSS coordinator	0	0	2	0		100	---	100	0
		BPEK24359	Physical Education (PE) (Sports and Athletics)	Physical Education Director									
		BYOK24359	Yoga	Yoga Teacher									
		BLAK24359	Liberal Arts	Prominent NGO									
									Total	550	350	900	20

Emerging Technology Course/Programming Language Course (ETC/PLC)			
BIS24306A	Object Oriented Programming with JAVA	BIS24306C	Unix System Programming
BIS24306B	Object Oriented Programming with C++	BIS24306D	Microcontroller
Ability Enhancement Course/Skill Enhancement Course – III			
BIS24358A	R Programming	BIS24358C	Project Management with Git
BIS24358B	Data Analytics with Excel	BIS24358D	Data Visualization with Python

IV SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week: Theory Lecture L	Tutorial T	Practical/ Drawing P	SDA S	Examination: Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
1	PCC/BSC	BMATS24401	Statistics, Probability and Graph Theory	TD:Maths PSB:Maths	3	0	0	0	03	50	50	100	3
2	IPCC	BIS24402	Database Management System (Integrated)	TD: ISE PSB: ISE	3	0	2	0	03	50	50	100	4
3	PCC	BIS24403	Design and Analysis of Algorithms	TD: ISE PSB: ISE	3	0	0	0	03	50	50	100	3
4	PCC	BIS24404	Operating System Internals: Linux Focus	TD: ISE PSB: ISE	3	0	0	0	03	50	50	100	3
5	PCCL	BISL24405	Design and Analysis of Algorithms Laboratory	TD: ISE PSB: ISE	0	0	2	0	03	50	50	100	1
6	ETC/PLC	BIS24406x	ETC/PLC	TD: ISE PSB: ISE	3	0	0	0	03	50	50	100	3
7	AEC/ SEC	BIS24457x	Ability Enhancement Course/Skill Enhancement Course- IV	TD and PSB: Concerned department	If the course is Theory: 1	0	0	0	01	50	50	100	1
					If the course is a lab: 0	0	2	0	02				
8	BSC	BBOK24407	Biology For Engineers	TD / PSB: BT, CHE,	1	0	0	0	01	50	50	100	1
9	UHV	BUHK24408	Universal human values course	Any Department	1	0	0	0	01	50	50	100	1
10	MC	BNSK24459	National Service Scheme (NSS)	NSS coordinator	0	0	2			100	---	100	0
		BPEK24459	Physical Education (PE) (Sports and Athletics)	Physical Education Director									
		BYOK24459	Yoga	Yoga Teacher									
		BLAK24459	Liberal Arts	Prominent NGO									
									Total	550	450	1000	20

Ability Enhancement Course / Skill Enhancement Course – IV			
BIS24457A	Green IT and Sustainability	BIS24457C	User Interface and User Experience Design
BIS24457B	Capacity Planning for IT	BIS24457D	LaTeX: A Tool for Academic Writing
Emerging Technology Course/Programming Language Course (ETC/PLC)			
BIS24406A	Advanced Java	BIS24406C	Modern Database Systems: NoSQL
BIS24406B	Modern Programming Paradigms : Scala	BIS24406D	Concurrent and Scalable Programming: Go Lang

V SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week: Theory Lecture L	Tutorial T	Practical/ Drawing P	SDA S	Examination: Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
1	HSMC	BIS24501	Software Engineering and Project Management	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
2	IPCC	BIS24502	Computer Networks (Integrated)	TD: ISE PSB: ISE	3	0	2		03	50	50	100	4
3	PCC	BIS24503	Theory of Computation	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
4	PCCL	BISL24504	Data Visualization Laboratory	TD: ISE PSB: ISE	0	0	2		03	50	50	100	1
5	PEC	BIS24505x	Professional Elective Course I	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
6	AEC/ SEC	BIS24556x	Ability Enhancement Course/Skill Enhancement Course- V		If the course is Theory 1	0	0		01	50	50	100	1
					If the course is Lab 0	0	2		02				
7	PROJ	BISP24507	Mini Project		0	0	4		03	100	-	100	2
8	AEC	BRMK24557	Research Methodology and IPR	Any Department	2	2	0		03	50	50	100	3
9	MC	BESK24508	Environmental Studies	Civil	1	0	0		01	100	--	100	0
10	MC	BNSK24559	National Service Scheme (NSS)	NSS coordinator	0	0	2			100	--	100	0
		BPEK24559	Physical Education (PE) (Sports and Athletics)	Physical Education Director									
		BYOK24559	Yoga	Yoga Teacher									
		BLAK24559	Liberal Arts	Prominent NGO									
									Total	650	350	1000	20

Professional Elective Course I			
BIS24505A	Generative AI: From Theory to Practice	BIS24505C	Cloud Computing
BIS24505B	Distributed Systems	BIS24505D	Computer Vision
Ability Enhancement Course / Skill Enhancement Course – V			
BIS24556A	Web technology	BIS24556C	Web Scrapping with Python
BIS24556B	Lex and Yacc: Tools for Language Processing	BIS24556D	Robotic Process Automation

Global Academy of Technology

(An Autonomous Institute, affiliated to VTU, Belagavi, recognized by Govt. of Karnataka and Approved by AICTE, New Delhi.)

VI SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week: Theory Lecture (L)	Tutorial (T)	Practical/ Drawing (P)	SDA (S)	Examination: Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
1	IPCC	BIS24601	Full Stack Development	TD: ISE PSB: ISE	3	0	2		03	50	50	100	4
2	PCC	BIS24602	Machine Learning	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
3	PCC	BIS24603	Information Retrieval	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
4	PEC	BIS24604x	Professional Elective Course II	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
5	OEC	BIS24605x	Open Elective Course I	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
6	PROJ	BISP24606	Project Phase I	TD: ISE PSB: ISE	0	0	4		03	100	--	100	2
7	PCCL	BISL24607	Machine Learning Laboratory	TD: ISE PSB: ISE	0	0	2		03	50	50	100	1
8	AEC/SDC	BIS24657x	Ability Enhancement Course/Skill Development Course VI	TD: ISE PSB: ISE	If the course is offered as a Theory: 1	0	0		01	50	50	100	1
					If course is offered as a practical: 0	0	2		02				
9	IKS	BIKS24608	Indian Knowledge System	Any Dept.	1	0	0		01	100	—	100	0
10	MC	BNSK24659	National Service Scheme (NSS)	NSS coordinator	0	0	2			100	—	100	0
		BPEK24659	Physical Education (PE) (Sports and Athletics)	Physical Education Director									
		BYOK24659	Yoga	Yoga Teacher									
		BLAK24659	Liberal Arts	Prominent NGO									
									Total	650	350	1000	20

Professional Elective Course II

BIS24604A	Blockchain Technology	BIS24604C	Software Architecture & Design Pattern
BIS24604B	Natural Language Processing	BIS24604D	Prompt Engineering Using LLM

Open Elective Course I

BIS24605A	Introduction to Data Structures	BIS24605C	Understanding IOT beyond IT
BIS24605B	Data Visualization for Non-IT	BIS24605D	Machine Learning for Non-IT

Ability Enhancement Course / Skill Enhancement Course-VI

BIS24657A	TOSCA- Automated Software Testing	BIS24657C	Ethical Hacking
BIS24657B	React: Building Interactive Web Interfaces	BIS24657D	DevOps: Principles and Practices

VII SEMESTER (Swappable VII and VIII SEMESTER)

Sl. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week: Theory Lecture (L)	Tutorial (T)	Practical/ Drawing (P)	SDA (S)	Examination: Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
1	IPCC	BIS24701	Bigdata Analytics (Integrated)	TD: ISE PSB: ISE	3	0	2		03	50	50	100	4
2	IPCC	BIS24702	Parallel Computing (Integrated)	TD: ISE PSB: ISE	3	0	2		03	50	50	100	4
3	PCC	BIS24703	Information and Network Security	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
4	PEC	BIS24704x	Professional Elective Course / (Online) III	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
5	OEC	BIS24705x	Open Elective Course /(online) II	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
6	PROJ	BISP24706	Major Project Phase-II	TD: ISE PSB: ISE	0	0	14		03	100	100	200	7
										350	350	700	24

Professional Elective Course III

BIS24704A	Deep Learning	BIS24704C	Social Network Analysis
BIS24704B	Quantum Computing	BIS24704D	Software Quality Analysis

Open Elective Course II

BIS24 705A	Database Management System	BIS24705C	Software Engineering
BIS24 705B	Ethical Hacking	BIS24705D	Unix Shell Programming

Global Academy of Technology

(An Autonomous Institute, affiliated to VTU, Belagavi, recognized by Govt. of Karnataka and Approved by AICTE, New Delhi.)

VIII SEMESTER (Swappable VII and VIII SEMESTER)														
Sl. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P	S					
1	PEC	BIS24801x	Professional Elective (Online Courses) IV	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
2	PEC	BIS24802x	Professional Elective (Online Courses) V	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
3	INT	BIS24803	Internship (Industry/Research) (14 - 20 weeks)	TD: ISE PSB: ISE	0	0	12		03	100	100	200	10
										200	200	400	16

Professional Elective Course (Online courses) IV			
BIS24801A	Quantum Algorithms and Cryptography https://online.vtu.ac.in/course-details/quantum-algorithms-and-cryptography	BIS24801C	Introduction To Industry 4.0 And Industrial Internet Of Things https://online.vtu.ac.in/course-details/Introduction-To-Industry-40-And-Industrial-Internet-Of-Things
BIS24801B	Reinforcement Learning https://online.vtu.ac.in/course-details/Reinforcement-Learning	BIS24801D	GPU Architectures and Programming https://online.vtu.ac.in/course-details/GPU-Architectures-And-Programming
Professional Elective Course (Online courses) V			
BIS24802A	Applied Accelerated Artificial Intelligence https://online.vtu.ac.in/coursedetails/Applied-AcceleratedArtificial-Intelligence	BIS24802C	Introduction To Game Theory And Mechanism Design https://online.vtu.ac.in/coursedetails/Introduction-To-GameTheory-And- Mechanism-Design
BIS24802B	Advanced Distributed Systems https://online.vtu.ac.in/coursedetails/advanced-distributed-systems	BIS24802D	Privacy And Security In Online Social Media https://online.vtu.ac.in/coursedetails/Privacy-and-Security-inOnline-Social-Media

Global Academy of Technology

(An Autonomous Institution, affiliated to VTU, Belagavi, recognized by Karnataka and Approved by AICTE, New Delhi.)

B.E. in Information Science and Engineering

Scheme of Teaching and Examinations (AY 2024-25)

VI SEMESTER(A)														
Sl. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P	S					
1	IPCC	BIS24601	Full Stack Development	TD: ISE PSB: ISE	3	0	2		03	50	50	100	4
2	PCC	BIS24602	Machine Learning	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
3	PCC	BIS24603	Information Retrieval	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
4	PEC	BIS24604x	Professional Elective Course II	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
5	OEC	BIS24605x	Open Elective Course I	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
6	PROJ	BISP24606	Project Phase I	TD: ISE PSB: ISE	0	0	4		03	100	–	100	2
7	PCCL	BISL24607	Machine Learning Laboratory	TD: ISE PSB: ISE	0	0	2		03	50	50	100	1
8	AEC/SDC	BIS24657x	Ability Enhancement Course/Skill Development Course V	TD: ISE PSB: ISE	If the course is offered as a Theory: 1	0	0		01	50	50	100	1
					If course is offered as a practical: 0	0	2		02				
9	IKS	BIK524608	Indian Knowledge System	Any Department	1	0	0		01	100	–	100	0
10	MC	BNSK24659	National Service Scheme (NSS)	NSS coordinator	0	0	2	–	—	100	—	100	0
		BPEK24659	Physical Education (PE) (Sports and Athletics)	Physical Education Director									
		BYOK24659	Yoga	Yoga Teacher									
		BLAK24659	Liberal Arts	Prominent NGO									
									Total	650	350	1000	20

Professional Elective Course II			
BIS24604A	Blockchain Technology	BIS24604C	Software Architecture & Design Pattern
BIS24604B	Natural Language Processing	BIS24604D	Prompt Engineering Using LLM
Open Elective Course I			
BIS24605A	Introduction to Data Structures	BIS24605C	Understanding IOT beyond IT
BIS24605B	Data Visualization for Non-IT	BIS24605D	Machine Larning for Non-IT
Ability Enhancement Course / Skill Enhancement Course-VI			
BIS24657A	TOSCA- Automated Software Testing	BIS24657C	Ethical Hacking
BIS24657B	React: Building Interactive Web Interfaces	BIS24657D	DevOps: Principles and Practices

Global Academy of Technology

(An Autonomous Institution, affiliated to VTU, Belagavi, recognized by Karnataka and Approved by AICTE, New Delhi.)

B.E. in Information Science and Engineering

Scheme of Teaching and Examinations (AY 2024-25)

VII and VIII semesters for the candidate those who seek an internship with project work (A)

Sl. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination				Credits
					Theory Lecture L	Tutorial T	Practical/ Drawing P	SDA S	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	IPCC	BIS24701	Bigdata Analytics (Integrated)	TD: ISE PSB: ISE	3	0	2		03	50	50	100	4
2	IPCC	BIS24702	Parallel Computing (Integrated)	TD: ISE PSB: ISE	3	0	2		03	50	50	100	4
3	PCC	BIS24703	Information and Network Security	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
4	PEC	BIS24704x	Professional Elective Course/Online III	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
5	OEC	BIS24705x	Open Elective Courses/Online II	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
1	PEC	BIS24801x	Professional Elective (MOOC Courses) IV	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
2	PEC	BIS24802x	Professional Elective (MOOC Courses) V	TD: ISE PSB: ISE	3	0	0		03	50	50	100	3
3	INT	BIS24803	Internship (Industry/Research) (02 semesters)	TD: ISE PSB: ISE	0	0	12		03	100	100	200	10
4	PROJ	BISP24804	Major Project II - outcome of training	TD: ISE PSB: ISE	0	0	14		03	100	100	200	7
										550	550	1100	40

Professional Elective Course III			
BIS24704A	Deep Learning	BIS24704C	Social Network Analysis
BIS24704B	Quantum Computing	BIS24704D	Software Quality Analysis
Open Elective Course II			
BIS24 705A	Database Management System	BIS24705C	Software Engineering
BIS24 705B	Ethical Hacking	BIS24705D	Unix Shell Programming

Professional Elective Course (Online courses) IV			
BIS24801A	Quantum Algorithms and Cryptography https://online.vtu.ac.in/course-details/quantum-algorithms-and-cryptography	BIS24801C	Introduction To Industry 4.0 And Industrial Internet Of Things https://online.vtu.ac.in/course-details/Introduction-To-Industry-40-And-Industrial-Internet-Of-Things
BIS24801B	Reinforcement Learning https://online.vtu.ac.in/course-details/Reinforcement-Learning	BIS24801D	GPU Architectures and Programming https://online.vtu.ac.in/course-details/GPU-Architectures-And-Programming
Professional Elective Course (Online courses) V			
BIS24802A	Applied Accelerated Artificial Intelligence https://online.vtu.ac.in/coursedetails/Applied-AcceleratedArtificial-Intelligence	BIS24802C	Introduction To Game Theory And Mechanism Design https://online.vtu.ac.in/coursedetails/Introduction-To-GameTheory-And- Mechanism-Design
BIS24802B	Advanced Distributed Systems https://online.vtu.ac.in/coursedetails/advanced-distributed-systems	BIS24802D	Privacy And Security In Online Social Media https://online.vtu.ac.in/coursedetails/Privacy-and-Security- inOnline-Social-Media

Newly Introduced Courses:

Sl. No	Course Name	Remarks
1	Microcontroller	This subject is included since it provides a strong foundation in hardware -software interaction, which are increasingly relevant in today's technological landscape.
2	Operating System Internals: Linux Focus	This subject provides a deep understanding of how computer systems function at a fundamental level, enabling students to build, manage, and troubleshoot complex software and hardware interactions.
3	Modern Programming Paradigms : Scala	Concurrent programming in Scala empowers developers to build high-performance, scalable, and robust applications.
4	Modern Database Systems: NoSQL	Go is ideal for engineers who want to enter the field of systems programming. NoSQL databases offer flexibility and scalability for modern web applications.
5	Concurrent and Scalable Programming: Go Lang	

6	Web Scrapping with Python	The subject equips them with the ability to automatically extract and analyze data from websites, which is crucial for various applications
7	Data Visulaization for Non-IT	These subjects have been included to align with emerging technological trends and support non-IT students.
8	Understanding IOT beyond IT	
9	Machine Larning for Non-IT	
10	Parallel Computing (Integrated)	This subject provides the foundation for tackling complex computational problems efficiently and effectively, particularly in the context of big data and high-performance computing
11	Generative AI: From Theory to Practice	This course equips them with the knowledge and skills to develop and utilize cutting-edge AI technologies that are rapidly transforming various industries.
12	Prompt Engineering Using LLM	This course enables students to craft precise instructions, unlock LLMs' full potential, and ensure accurate, relevant, and safe AI interactions.

The Chairperson thanked all the members for their active participation and valuable suggestions. The meeting was adjourned at 1:00pm

Prepared by: 20/5/2025
Dr. Bhagyashri R Hanji
Professor-ISE

Approved by: 20/5/25
Dr. Kiran Y C
Chairperson, Board of Studies
Professor & Head- ISE

Head of Department
Information Science & Engineering
Global Academy of Technology
Bangalore - 560098

Department of Mechanical Engineering

GLOBAL ACADEMY OF TECHNOLOGY

(Autonomous Institution, affiliated to VTU, and approved by AICTE)
NBA Accredited Computer Science, Electrical and Electronics, Electronics and Communications, Information Science and Mechanical Engineering programs

NAAC

BOARD OF STUDIES
MECHANICAL DEPARTMENT, GAT

Sl.No.	Designation	Affiliation	Name	Email	Contact
01	Chairman	HoD, ME	Dr. Bharat Vinjamuri	hodmech@gat.ac.in	9986579555
02	Subject Expert 1	Assoc. Prof., Department of ME, R V C E, Bangalore	Dr. Jagannath Gupta	jagannathagvl@rvce.edu.in	9243447122
03	Subject Expert 2	Professor, JSSATE, Bangalore	Dr. Yogesha K B	yogeshakb@jssateb.ac.in	9448412504
04	VTU Nominee	Professor, Department of ME, R V C E, B Bangalore	Dr. Bharathish	bharatisha@rvce.edu.in	9538288686
05	Industry representative	Cofounder & Managing Director, Medini Technologies	Mr. Pradeep Kallur	pradeep@medini.in	99000 81006
06	Member convenor	Competent senior faculty of the department	Dr. Ravi Kumar D V	ravikumardv@gat.ac.in	9986579555
07	Member		Dr. V. Ravi Kumar	v.ravikumar@gat.ac.in	9341865545
08	Member		Dr. Shreekala N	shreekala.n@gat.ac.in	9980676867
10	Invited member	Principal	Dr. H.B. Balakrishna	principal@gat.ac.in	9845395535
11	Invited member	Dean Academics	Dr. Rajashekara Swamy H M	dean@gat.ac.in	9591919631

Signature of the HoD

Head of Department
Mechanical Engineering
Global Academy of Technology
Bangalore - 98

Signature of the Principal

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

Outlook

Invitation to Board of Studies Meeting on 17-09-2024

From HOD, Mechanical Engineering Dept <hodmech@gat.ac.in>
Date Tue 9/17/2024 12:42 AM
To Dr. Rajashekhar Swamy H M, Dean Academics <rajashekharswamy@gat.ac.in>

1 attachments (4 MB)
Scheme and Syllabus_BoS_17.09.2024.zip;

Dear Sir / Madam,

On behalf of the Department of Mechanical Engineering, Global Academy of Technology, I am writing to extend a cordial invitation to you for our upcoming Board of Studies meeting.

Date: 17-09-2024
Lunch: 1:00 PM
Meeting Time: 2:00 PM
Location: Conference Hall, Global Academy of Technology

Your valuable contributions and perspectives will significantly influence the discussions, especially regarding the academic landscape and technological advancements in our field.

The following would be the brief agenda

Agenda 1: *Discussion on First Year scheme and syllabus for 2024 Batch students*
Agenda 2: *Discussion on Third to Eighth semester scheme and syllabus for 2023 Batch.*
Agenda 3: *Ratification of Fifth to Eighth semester scheme and syllabus for 2022 Batch*
Agenda 4: *Presentation and Discussion of Newly Introduced courses*
Agenda 5: *Presentation of Elective Course Options and Criteria for Selecting Electives*
Agenda 6: *Review of Courses That Have Undergone Revision in 2022 Scheme*
Agenda 7: *Courses Addressing Employability, Entrepreneurship, and Skill Development*
Agenda 8: *Number of Certificate/Diploma/Value added Programs Introduced Year-Wise During the Last Five Years*
Agenda 9: *List of Courses That Address Issues Related to Gender, Environment, and Sustainability, Human Values, and Professional Ethics*
Agenda 10: *Discussion on Feedback from Stakeholders on the Curriculum*
Agenda 11: *Feedback and Suggestions from Faculty and Experts*

Note: The scheme is formulated in accordance with the guidelines of the Mechanical Engineering Board of Studies, Visvesvaraya Technological University, Belagavi.

Prior to the meeting, we cordially invite you to join us for lunch at 1:00 PM. This informal gathering will provide an excellent platform for networking and exchange of ideas among esteemed colleagues.

Please find the relevant scheme and syllabus attached for your reference

We sincerely hope that you will be able to grace us with your presence. Thank you for considering this invitation.

Looking forward to the pleasure of your presence at the meeting.

Warm regards,
Dr. Bharat Vinjamuri
Professor & Head
Department of ME
Global Academy of Technology
Bangalore

Outlook

Invitation to Board of Studies Meeting on 17-09-2024

From HOD, Mechanical Engineering Dept <hodmech@gat.ac.in>
Date Tue 9/17/2024 12:36 AM
To Bharatish A <bharatisha@rvce.edu.in>

1 attachments (4 MB)
Scheme and Syllabus_BoS_17.09.2024.zip;

Dear Dr. Bharathish Sir,

On behalf of the Department of Mechanical Engineering, Global Academy of Technology, I am writing to extend a cordial invitation to you for our upcoming Board of Studies meeting.

Date: 17-09-2024
Time: 2:00 PM
Location: Conference Hall, Global Academy of Technology

As a VTU Nominee and esteemed Professor from the Department of Mechanical Engineering at R V College of Engineering, Bangalore, your expertise and perspective are highly valued, and your presence at this meeting would be immensely beneficial. As a knowledgeable authority in the field, your insights will significantly contribute to our discussions and decisions regarding the academic curriculum and advancements in Mechanical Engineering.

The following would be the brief agenda.

Agenda 1: *Discussion on First Year scheme and syllabus for 2024 Batch students*
Agenda 2: *Discussion on the Third to Eighth-semester scheme and syllabus for the 2023 Batch.*
Agenda 3: *Ratification of the Fifth to Eighth-semester scheme and syllabus for 2022 Batch*
Agenda 4: *Presentation and Discussion of Newly Introduced Courses*
Agenda 5: *Presentation of Elective Course Options and Criteria for Selecting Electives*
Agenda 6: *Review of Courses That Have Undergone Revision in 2022 Scheme*
Agenda 7: *Courses Addressing Employability, Entrepreneurship, and Skill Development*
Agenda 8: *Number of Certificates/Diploma/Value added Programs Introduced Year-Wise During the Last Five Years*
Agenda 9: *List of Courses That Address Issues Related to Gender, Environment, and Sustainability, Human Values, and Professional Ethics*
Agenda 10: *Discussion on Feedback from Stakeholders on the Curriculum*
Agenda 11: *Feedback and Suggestions from Faculty and Experts*

Note: The scheme is formulated in accordance with the guidelines of the Mechanical Engineering Board of Studies, Visvesvaraya Technological University, Belagavi.

Prior to the meeting, we cordially invite you to join us for lunch at 1:00 PM. This informal gathering will provide an excellent platform for networking and exchange of ideas among esteemed colleagues.

Please find the relevant scheme and syllabus attached for your reference

We sincerely hope that you will be able to grace us with your presence. Thank you for considering this invitation.

Looking forward to the pleasure of your presence at the meeting.

Warm regards,
Dr. Bharat Vinjamuri
Professor & Head
Department of ME
Global Academy of Technology
Bangalore

GLOBAL ACADEMY OF TECHNOLOGY

Autonomous Institution Affiliated to Visveswaraya Technological University
Approved by UGC, AICTE and Govt of Karnataka
NBA Accredited CSE, ISE, ECE, EEE, ME and Civil Engineering Programs

Meeting of all members of Board of Studies (Mechanical Engineering)

Meeting Chair: Dr. Bharat Vinjamuri, BoS Chairman (ME)

Date: 17-09-2024

Venue: Conference Hall, GAT / Google Meet link: https://meet.google.com/iki-trbc-fff

Meeting time: 02:00 pm

Members Present

Sl.No.	Designation	Members	Email	Signature
01	Chairman	Dr. Bharat Vinjamuri, Prof. & HoD, Dept. of ME	hodmech@gat.ac.in bharat.vk@gat.ac.in 9986579555	
02	Subject Expert 1	Dr. Jagannath Gupta Assoc. Prof., Department of ME, R V C E, Bangalore	jagannathagvl@rvce.edu.in 9243447122	
03	Subject Expert 2	Dr. Yogesha K B Professor, JSSATE, Bangalore	yogeshakb@jssateb.ac.in 9448412504	
04	VTU Nominee	Dr. Bharathish Professor, Department of ME, R V C E, Bangalore	bharatisha@rvce.edu.in 9538288686	
05	Industry representative	Mr. Pradeep Kallur Cofounder & Managing Director, Medini Technologies	pradeep@medini.in 99000 81006	
06	Member convenor	Dr. Ravi Kumar D V Prof. Dept. of ME	ravikumardv@gat.ac.in 9986579555	
07	Member	Dr. V. Ravi Kumar Assoc. Prof. Dept. of ME	v.ravikumar@gat.ac.in 9341865545	
08	Member	Dr. Shreekala N Assoc. Prof. Dept. of ME	shreekala.n@gat.ac.in 9980676867	
09	Invited member	Dr. H.B. Balakrishna Principal	principal@gat.ac.in 9845395535	
10	Invited member	Dr. Rajashekar Swamy H M Dean Academics	dean@gat.ac.in 9591919631	

Dean Academic
Global Academy of Technology,
Rajarajeshwarinagar, Bengaluru-98

GLOBAL ACADEMY OF TECHNOLOGY

Autonomous Institution Affiliated to Visveswaraya Technological University
Approved by UGC, AICTE and Govt of Karnataka
NBA Accredited CSE, ISE, ECE, EEE, ME and Civil Engineering Programs

Meeting of all members of Board of Studies (Mechanical Engineering)
Meeting Chair: Dr. Bharat Vinjamuri, BoS Chairman (ME)

Date: 17-09-2024
Venue: Conference Hall, GAT / Google Meet link: https://meet.google.com/iki-trbc-fff
Meeting time: 02:00 pm

AGENDA

Agenda 1: *Discussion on First Year scheme and syllabus for 2024 Batch students*
Agenda 2: *Discussion on Third to Eighth semester scheme and syllabus for 2023 Batch.*
Agenda 3: *Ratification of Fifth to Eighth semester scheme and syllabus for 2022 Batch*
Agenda 4: *Presentation and Discussion of Newly Introduced courses*
Agenda 5: *Presentation of Elective Course Options and Criteria for Selecting Electives*
Agenda 6: *Review of Courses That Have Undergone Revision in 2022 Scheme*
Agenda 7: *Courses Addressing Employability, Entrepreneurship, and Skill Development*
Agenda 8: *Discussion on Certificate/Diploma/Value added Programs*
Agenda 9: *List of Courses That Address Issues Related to Gender, Environment, and Sustainability, Human Values, and Professional Ethics*
Agenda 10: *Discussion on Feedback from Stakeholders on the Curriculum*
Agenda 11: *Discussion on Skill labs*
Agenda 12: *Feedback and Suggestions from Faculty and Experts*

Sl.No.	Designation	Members	Email	Signature
01	Chairman	Dr. Bharat Vinjamuri, Prof. & HoD, Dept. of ME	hodmech@gat.ac.in bharat.vk@gat.ac.in 9986579555	
02	Subject Expert 1	Dr. Jagannath Gupta Assoc. Prof., Department of ME, R V C E, Bangalore	jagannathagvl@rvce.edu.in 9243447122	
03	Subject Expert 2	Dr. Yogesha K B Professor, JSSATE, Bangalore	yogeshakb@jssateb.ac.in 9448412504	
04	VTU Nominee	Dr. Bharathish Professor, Department of ME, R V C E, Bangalore	bharatisha@rvce.edu.in 9538288686	
05	Industry representative	Mr. Pradeep Kallur Cofounder & Managing Director, Medini Technologies	pradeep@medini.in 99000 81006	
06	Member convenor	Dr. Ravi Kumar D V Prof. Dept. of ME	ravikumardv@gat.ac.in 9986579555	
07	Member	Dr. V. Ravi Kumar Assoc. Prof. Dept. of ME	v.ravikumar@gat.ac.in 9341865545	
08	Member	Dr. Shreekala N Assoc. Prof. Dept. of ME	shreekala.n@gat.ac.in 9980676867	
09	Invited member	Dr. H.B. Balakrishna Principal	principal@gat.ac.in 9845395535	
10	Invited member	Dr. Rajashekar Swamy H M Dean Academics	dean@gat.ac.in 9591919631	

Dean Academic
Global Academy of Technology,
Rajarajeshwarinagar, Bengaluru-98

HoD-ME
Head of Department
Mechanical Engineering
Global Academy of Technology
Bangalore - 98

GLOBAL ACADEMY OF TECHNOLOGY
Autonomous Institution Affiliated to Visveswaraya Technological University
Approved by UGC, AICTE and Govt of Karnataka
NBA Accredited CSE, ISE, ECE, EEE, ME and Civil Engineering Programs

Meeting Minutes

The meeting commenced at 02:00 PM on 17th September 2024, led by Dr. Bharat Vinjamuri, Head of the Department of Mechanical Engineering and Chairman of the Board of Studies. All the members attended offline for the meeting, and Dr. Bharathish, VTU Nominee and professor from RVCE, attended the meeting in online mode using the Google Meet link. The BoS chairman, Dr Bharat Vinjamuri, has warmly welcomed all the attendees and highlighted various academic initiatives practiced within the department. Dr. Bharat Vinjamuri emphasized the importance of continuous curriculum improvement in preparing industry-ready graduates.

The detailed discussions under each agenda item are summarized below, showcasing the thorough feedback and valuable suggestions provided by board members.

Meeting Summary

Agenda 1: *Discussion on First Year scheme and syllabus for 2024 Batch students*

The committee discussed the scheme and syllabus framed for the 2024 batch of first-year students, developed in accordance with the guidelines provided by VTU.

- The scheme follows the **Choice Based Credit System (CBCS)** as per the university guidelines, allowing flexibility in course selection and aligning with contemporary educational frameworks.
- The scheme has a **total of 40 credits** in First Year, with **20 credits** assigned for each semester.
- The syllabus for core subjects like **Mathematics, Physics, and Chemistry** has been made **exclusive for mechanical engineering** students, ensuring a more focused and tailored approach to the discipline.
- The scheme comprises various courses, including:
  - **ASC (Applied Science Course)**
  - **ESC (Engineering Science Courses)**
  - **ETC (Emerging Technology Course)**
  - **AEC (Ability Enhancement Course)**
  - **HSMS (Humanities and Social Science and Management Course)**
  - **SDC (Skill Development Course)**

Agenda 2: *Discussion on Third to Eighth semester scheme and syllabus for 2023 Batch*

The **third to eighth-semester scheme** follows the **VTU 2022 scheme** and the **Choice Based Credit System (CBCS)**.

- The distribution of credits for each semester is as follows:
  - **3rd semester:** 20 credits
  - **4th semester:** 20 credits
  - **5th semester:** 22 credits
  - **6th semester:** 18 credits
  - **7th semester:** 24 credits
  - **8th semester:** 16 credits

- A **14–20-week internship program** has been introduced during the 8th semester, carrying **10 credits**.
- The **project work** begins at the 5th semester with a **Mini Project**, continues at the 6th semester with **Major Project Phase-1**, and at the 7th semester with **Major Project Phase-2**, with a total of **10 credits** allocated for project work.
- Additionally, **9 credits** have been allocated for **Ability Enhancement Courses/Skill Development Courses**.
- The members discussed the importance of hands-on experience and practical skills, which are adequately addressed through the internship and project components.

Agenda 3: *Ratification of Fifth to Eighth semester scheme and syllabus for 2022 Batch*

The **2022 scheme and syllabus**, which was approved in the previous BoS meetings, was modified as per the latest university guidelines. These modifications were reviewed and **ratified** during the current BoS meeting.

The alignment of the updated courses with VTU guidelines and industry requirements was confirmed, and no further changes were suggested.

Agenda 4: *Presentation and Discussion of Newly Introduced courses*

The following courses were introduced under the 2023 scheme:

- **Social Connect and Responsibility**
- **Non-credit mandatory courses:**
  - National Service Scheme (NSS)
  - Physical Education (PE) – Sports and Athletics
  - Yoga

- **Engineering Science Course in 3rd semester:**
  - Internet of Things
  - Waste Handling and Management
- **Ability Enhancement Course – I in 3rd semester:**
  - Advanced Python Programming
  - Fundamentals of Additive Manufacturing
  - Spreadsheet for Engineers
  - Tools in Scientific Computing
- **Engineering Science Course in 4th semester:**
  - Non-Traditional Machining
  - Environmental Studies [3-0-0]
  - Micro Electromechanical Systems
- **Ability Enhancement Course – II in 4th semester:**
  - Introduction to AI & ML
  - Digital Marketing
  - Geometric Dimensioning & Tolerancing
  - Introduction to Programming in C++
- **Ability Enhancement Course – II in 5th semester:**
  - Research Methodology and IPR
- **Professional Elective in 5th semester:**
  - Supply Chain Management & Introduction to SAP
- **HSMS course in 6th semester:**
  - Indian Knowledge System
- **Ability Enhancement Courses in 6th semester:**
  - Basics of MATLAB
  - Fundamentals of Virtual Reality ARP Development
  - Vertical Machining Center
  - Introduction to Augmented Reality
- **Professional Elective in 7th semester:**
  - Automotive Engineering & Hybrid Vehicle Technology
- **Online MOOC Courses through NPTEL in 8th semester as professional electives:**
  - Quality Design & Control
  - Machinery Fault Diagnosis and Signal Processing
  - Product Design and Manufacturing
  - Computer Integrated Manufacturing

The board discussed the relevance and industry demand for these courses, highlighting their contribution to enhancing students' skills and employability.

Agenda 2: *Discussion on Third to Eighth semester scheme and syllabus for 2023 Batch*

The **third to eighth-semester scheme** follows the **VTU 2022 scheme** and the **Choice Based Credit System (CBCS)**.

- The distribution of credits for each semester is as follows:
  - **3rd semester:** 20 credits
  - **4th semester:** 20 credits
  - **5th semester:** 22 credits
  - **6th semester:** 18 credits
  - **7th semester:** 24 credits
  - **8th semester:** 16 credits

- A **14–20-week internship program** has been introduced during the 8th semester, carrying **10 credits**.
- The **project work** begins at the 5th semester with a **Mini Project**, continues at the 6th semester with **Major Project Phase-1**, and at the 7th semester with **Major Project Phase-2**, with a total of **10 credits** allocated for project work.
- Additionally, **9 credits** have been allocated for **Ability Enhancement Courses/Skill Development Courses**.
- The members discussed the importance of hands-on experience and practical skills, which are adequately addressed through the internship and project components.

Agenda 3: *Ratification of Fifth to Eighth semester scheme and syllabus for 2022 Batch*

The **2022 scheme and syllabus**, which was approved in the previous BoS meetings, was modified as per the latest university guidelines. These modifications were reviewed and **ratified** during the current BoS meeting.

The alignment of the updated courses with VTU guidelines and industry requirements was confirmed, and no further changes were suggested.

Agenda 4: *Presentation and Discussion of Newly Introduced courses*

The following courses were introduced under the 2023 scheme:

- **Social Connect and Responsibility**
- **Non-credit mandatory courses:**
  - National Service Scheme (NSS)
  - Physical Education (PE) – Sports and Athletics
  - Yoga

GLOBAL ACADEMY OF TECHNOLOGY
Autonomous Institution Affiliated to Visveswaraya Technological University
Approved by UGC, AICTE and Govt of Karnataka
NBA Accredited CSE, ISE, ECE, EEE, ME and Civil Engineering Programs

Agenda 5: *Presentation of Elective Course Options*

Professional Elective Courses were introduced starting from the 5th semester up to the 8th semester. These courses were selected based on the latest trends and advancements in the mechanical industry. The semester-wise Professional Elective Courses are as follows:

- **5th semester:**
  - Mechanical Vibrations
  - Product Life Cycle Management
  - Supply Chain Management & Introduction to SAP
  - Energy Engineering
- **6th semester:**
  - Design of Transmission Elements
  - Project and Operations Management
  - Refrigeration and Air Conditioning
  - Renewable Energy Technologies
- **7th semester:**
  - Design for Manufacturing and Assembly
  - Thermal Management of Electronic Equipment
  - Total Quality Management
  - Automotive Engineering & Hybrid Vehicle Technology
- **8th semester:**
  - Quality Design & Control
  - Machinery Fault Diagnosis and Signal Processing
  - Product Design and Manufacturing
  - Computer Integrated Manufacturing

In addition to the professional electives, the department also introduced **Open Elective Courses** for students from the 6th to the 8th semester. The open elective courses are as follows:

- **6th semester:**
  - Supply Chain Management & Introduction to SAP
  - Renewable Energy Power Plants
  - Total Quality Management
  - Modern Mobility
- **7th semester:**
  - Additive Manufacturing
  - Project and Operations Management
  - Operations Research
  - Non-Conventional Energy Resources

- **8th semester:**
  - Fundamentals of Automotive Systems
  - Strategies for Sustainable Design
  - Industrial Safety Engineering
  - Business Planning & Project Management

The selection of elective courses was designed to ensure that students have access to courses relevant to current industry demands, equipping them with practical skills and knowledge that are highly sought after in the mechanical engineering field.

Design	Thermal	Manufacturing	Multi-disciplinary & Management
Mechanical Vibrations	Energy Engineering	Product Life Cycle Management	Supply Chain Management & Introduction to SAP
Design for transmission Elements	Refrigeration and Air Conditioning	Design for Manufacturing and Assembly	Project and Operations Management
Product Design and Manufacturing	Renewable Energy Technologies	Automotive Engineering & Hybrid Vehicle Technology	Total Quality Management
Machinery Fault Diagnosis and Signal Processing	Thermal Management of Electronic Equipment	Computer Integrated Manufacturing	Quality Design & Control

Agenda 6: *Review of Courses That Have Undergone Revision in 2023 Scheme*

Dr. Rao presented an overview of courses that underwent revision in the 2020 scheme. He emphasized the incorporation of modern technologies, updated industry practices, and hands-on experiences in these courses. The board applauded the efforts to keep the curriculum current.

Sl.No	Name of the course	Semester	% of revision
1.	Material Science and Engineering	3	40
2.	Mechanics of Materials	3	20
3.	Computer Aided Modelling	3	10
4.	Mechanical Measurements & Metrology	4	10
5.	CNC Programming lab	5	30
6.	Finite Element Methods	6	30
7.	Hydraulics and Pneumatics	7	20

GLOBAL ACADEMY OF TECHNOLOGY
Autonomous Institution Affiliated to Visveswaraya Technological University
Approved by UGC, AICTE and Govt of Karnataka
NBA Accredited CSE, ISE, ECE, EEE, ME and Civil Engineering Programs

Agenda 5: *Presentation of Elective Course Options*

Professional Elective Courses were introduced starting from the 5th semester up to the 8th semester. These courses were selected based on the latest trends and advancements in the mechanical industry. The semester-wise Professional Elective Courses are as follows:

- **5th semester:**
  - Mechanical Vibrations
  - Product Life Cycle Management
  - Supply Chain Management & Introduction to SAP
  - Energy Engineering
- **6th semester:**
  - Design of Transmission Elements
  - Project and Operations Management
  - Refrigeration and Air Conditioning
  - Renewable Energy Technologies
- **7th semester:**
  - Design for Manufacturing and Assembly
  - Thermal Management of Electronic Equipment
  - Total Quality Management
  - Automotive Engineering & Hybrid Vehicle Technology
- **8th semester:**
  - Quality Design & Control
  - Machinery Fault Diagnosis and Signal Processing
  - Product Design and Manufacturing
  - Computer Integrated Manufacturing

In addition to the professional electives, the department also introduced **Open Elective Courses** for students from the 6th to the 8th semester. The open elective courses are as follows:

- **6th semester:**
  - Supply Chain Management & Introduction to SAP
  - Renewable Energy Power Plants
  - Total Quality Management
  - Modern Mobility
- **7th semester:**
  - Additive Manufacturing
  - Project and Operations Management
  - Operations Research
  - Non-Conventional Energy Resources

- **8th semester:**
  - Fundamentals of Automotive Systems
  - Strategies for Sustainable Design
  - Industrial Safety Engineering
  - Business Planning & Project Management

The selection of elective courses was designed to ensure that students have access to courses relevant to current industry demands, equipping them with practical skills and knowledge that are highly sought after in the mechanical engineering field.

Design	Thermal	Manufacturing	Multi-disciplinary & Management
Mechanical Vibrations	Energy Engineering	Product Life Cycle Management	Supply Chain Management & Introduction to SAP
Design for transmission Elements	Refrigeration and Air Conditioning	Design for Manufacturing and Assembly	Project and Operations Management
Product Design and Manufacturing	Renewable Energy Technologies	Automotive Engineering & Hybrid Vehicle Technology	Total Quality Management
Machinery Fault Diagnosis and Signal Processing	Thermal Management of Electronic Equipment	Computer Integrated Manufacturing	Quality Design & Control

Agenda 6: *Review of Courses That Have Undergone Revision in 2023 Scheme*

Dr. Rao presented an overview of courses that underwent revision in the 2020 scheme. He emphasized the incorporation of modern technologies, updated industry practices, and hands-on experiences in these courses. The board applauded the efforts to keep the curriculum current.

Sl.No	Name of the course	Semester	% of revision
1.	Material Science and Engineering	3	40
2.	Mechanics of Materials	3	20
3.	Computer Aided Modelling	3	10
4.	Mechanical Measurements & Metrology	4	10
5.	CNC Programming lab	5	30
6.	Finite Element Methods	6	30
7.	Hydraulics and Pneumatics	7	20

Agenda 7: *Courses Addressing Employability, Entrepreneurship, and Skill Development*

The following lists highlight the courses introduced with a focus on employability, skill development, and entrepreneurship:

- **Courses with a focus on Employability:**
  - Thermodynamics
  - Material Science and Metallurgy
  - Mechatronics
  - Theory of Machines
  - Design for Manufacturing & Assembly
  - Additive Manufacturing
  - Automation & Robotics
  - Automotive Engineering
  - Design of Transmission Elements
  - Refrigeration & Air Conditioning
  - Computational Fluid Dynamics
  - Quantitative Techniques

- **Courses with a focus on Skill Development:**
  - Computer Aided Engineering Drawing
  - Strength of Materials (Integrated)
  - Manufacturing Process (Integrated)
  - AEC – I: Modelling & 3D Printing
  - Mechanical Measurements & Metrology (Integrated)
  - Computer Aided Modelling and GD&T
  - AEC-II: Hydraulics & Pneumatics
  - Machine Shop
  - Fluid Mechanics & Machinery (Integrated)
  - Design of Machine Elements
  - Research Methodology
  - AEC-III: CNC Technology
  - Fuel and Engine Testing Laboratory
  - Automation & Robotics
  - Heat Transfer (Integrated)
  - Advanced Manufacturing Systems (Integrated)
  - Dynamics Laboratory
  - Python for Data Science

- **Courses with a focus on Entrepreneurship:**
  - Management & Economics
  - Energy, Environment and Sustainable Development
  - Product Life Cycle Management
  - Project & Operations Management
  - Supply Chain Management
  - Total Quality Management

The board acknowledged that these courses would significantly enhance students' career readiness by equipping them with essential technical skills and fostering an entrepreneurial mindset. The courses were designed to provide comprehensive knowledge while addressing critical industry requirements.

Agenda 8: *Discussion on Certificate/Diploma/Value added Programs*

Data on the certificate programs and value-added programs introduced in the previous year was presented during the meeting. The success and impact of these programs were highlighted, demonstrating the department's commitment to providing a **holistic education**. This commitment was appreciated by the board, and similar programs were proposed for the current academic year. The certificate programs included:

- **Certification Programs on CNC Technology**
- **Certification Programs in 3D Printing**
- **Certification Programs on Automotive Technology**
- **Certification Programs on Automation through Hydraulics and Pneumatics**
- **Certification Programs on IT Skills**
- **Certification Programs through MOOCs**, which were also made available as professional electives in the final semester.
- **Certification Programs on Material Technology**
- **Certification Programs on Robotics**
- **Certification Programs on Simulation tools like MATLAB, Structural Analysis, CFD**
- **Certification Programs on Drafting and Modelling tools like AutoCAD, CATIA, SolidWorks, Fusion 360**

The board discussed the positive feedback from students regarding these programs and emphasized continuing to offer courses that align with industry demands. The inclusion of MOOCs as professional electives in the final semester was noted as a strategic move to broaden learning opportunities and offer flexible, self-paced education. The department's proactive approach in equipping students with diverse skills through these certification programs was well-received.

The members highlighted that these courses reflect the department's ongoing efforts to enhance student learning through targeted certification and value-added programs, ensuring a well-rounded educational experience.

Agenda 9: *List of Courses That Address Issues Related to Gender, Environment, and Sustainability, Human Values, and Professional Ethics*

A comprehensive list of courses in 2022 scheme that address gender, environmental sustainability, human values, and professional ethics are presented. The board commended the department's inclusivity and the integration of these critical aspects into the curriculum. The following courses were focused on Environment, Sustainability, Human Values, and Professional Ethics

- Communicative English (BENGK24106)
- Professional Writing Skills in English (BPWSK24206)
- Samskrutika Kannada (BKSKK24107)
- Balake Kannada (BKBKK24107)
- Indian Constitution (BICOK24107)
- Innovation and Design Thinking (BIDTK24108)
- Scientific Foundations of Health (BSFHK24108)
- **Social Connect and Responsibility (**SCK23306)
- National Service Scheme (NSK23308)
- Physical Education (PE) (Sports and Athletics) (PEK23308)
- Yoga (YOK23308)
- Universal Human Values (MED23406)
- Environmental Studies (MEDK23508)
- Indian Knowledge System (MEDK23608)

Agenda 11: *Discussion on Skill labs*

As part of the university guidelines, the department has introduced the following skill labs to enhance students' practical knowledge and hands-on experience:

- **CNC Turning**
- **CNC Milling**
- **3D Printing**
- **Automotive Technology**
- **Automation through Hydraulics and Pneumatics**

Students will benefit from extensive hands-on training in these lab sessions, which will equip them with vital skills for their future careers in mechanical engineering. Mr. Pradeep Kallur from Medini Technologies commended the department's initiatives to establish skill labs, emphasizing that these enhancements reflect the department's dedication to providing practical training in accordance with university standards.

Agenda 11: *Discussion on Feedback from Stakeholders on the Curriculum*

Feedback from various stakeholders regarding the curriculum was presented, emphasizing several key areas for improvement and enhancement:

- **Students** expressed a need for more **practical and hands-on learning experiences** to better prepare them for industry demands.
- **Faculty** suggested integrating more **live projects** into the curriculum to enhance real-world application and facilitate experiential learning.
- **Industry representatives** highlighted the importance of aligning course content with current **industry trends and expectations**, ensuring that graduates are well-equipped with relevant skills.
- There was a general consensus on the desire for increased **collaboration** between the department and industry partners to facilitate **internships and job placements**, providing students with valuable industry exposure.
- Stakeholders emphasized the need for **continuous assessment** and updates to the curriculum to ensure it remains relevant and effective in addressing the evolving demands of the mechanical engineering field.

The board acknowledged the importance of this feedback and discussed potential strategies to incorporate these suggestions into the curriculum for the upcoming academic year. Enhancing the alignment of the curriculum with both student needs and industry requirements was considered a priority.

Agenda 12: *Feedback and Suggestions from Faculty and Experts*

The meeting featured an insightful discussion where faculty members and external experts provided valuable feedback and suggestions regarding the curriculum. These insights were structured as actionable points aimed at enhancing the educational framework.

Dr. Bharathish, Dr. Yogesha, Mr. Pradeep Kallur and Dr. Jagannath Gupta contributed their extensive experiences and recommendations, underscoring the critical importance of integrating practical applications and industry internships into the curriculum. They highlighted that such elements not only enrich the learning experience but also ensure that students are better prepared for the challenges they will face in the workforce.

Meeting Actions:

The members of the BoS approved the First year scheme and the syllabus of 2024 scheme and approved the scheme and syllabus of third to eight semester of 2023 scheme with the following suggested changes.

Action 1: Changes in III Semester Courses

- Strength of Materials (22MED32): Introduce the theory of deflections (theory only).
- Manufacturing Process (22MED33): Remove theory related to shaping machines.
- Material Science & Engineering (22MED35): Change the title to "Material Science & Engineering" instead of "Material Science & Metallurgy."
- 3D Printing (22MED36): Change the title from "Modelling and 3D Printing" to "Fundamentals of 3D Printing."

Action 2: Changes in IV Semester Courses

- Mechanical Measurements & Metrology (22MED42): Add GD&T as a separate module.
- Mechatronics (22MED43): Change the title of Module 5 to "Introduction to IoT."
- Thermodynamics (22MED45): Include numerical problems only in Otto and Diesel cycles.
- Automation through Hydraulics and Pneumatics (22MED46): Add a scheme of examination.
- Machine Shop (22MEDL47): Include analysis-based types of chips, machining parameters, and surface finish.

Action 3: Changes in V Semester Courses

- Design of Machine Elements (22MED53): Introduce fatigue with simple numerical problems and remove the chapter on power screws.
- Design for Manufacturing & Assembly (22MED551): Reduce the content in all modules.

Action 4: Changes in VII Semester Courses

- Tribology (22MED742): Include applications such as Bio Tribo, nano tribology, and green tribology, and increase the focus on wear concepts.
- Refrigeration and Air Conditioning (22MED73): Change the topic name of the last module to "Introduction to HVAC."

Action 5: Changes in VIII Semester Courses

- Composite Material Technology (22MED832): Change the title to "Composite Material Technology."

GLOBAL ACADEMY OF TECHNOLOGY
Autonomous Institution Affiliated to Visveswaraya Technological University
Approved by UGC, AICTE and Govt of Karnataka
NBA Accredited CSE, ISE, ECE, EEE, ME and Civil Engineering Programs

These action points will be addressed to guarantee the successful implementation and ongoing enhancement of the Mechanical Engineering curriculum at Global Academy of Technology.

Dr. Bharat Vinjamuri, Head of the Department of Mechanical Engineering, emphasized the significance of collaborative efforts in continuously elevating the quality of education offered by the department. He urged all members to actively participate in the improvement process and to keep communication channels open, fostering a culture of collaboration for the advancement of the curriculum.

18/9/24

Chairman, BoS & HoD
Department of ME
Global Academy of Technology

Head of Department
Mechanical Engineering
Global Academy of Technology
Bangalore - 98

GLOBAL ACADEMY OF TECHNOLOGY

(Autonomous Institution, affiliated to VTU, and approved by AICTE)
NBA Accredited Computer Science, Electrical and Electronics, Electronics and Communications, Information Science and Mechanical Engineering programs

BOARD OF STUDIES
MECHANICAL DEPARTMENT, GAT

Sl. No.	Designation	Affiliation	Name	Email	Contact
01	Chairman	HoD, ME	Dr. Bharat Vinjamuri	hodmech@gat.ac.in	9986579555
02	Subject Expert 1	Assoc. Prof., Department of ME, R V C E, Bangalore	Dr. Jagannath Gupta	jagannathagvl@rvce.edu.in	9243447122
03	Subject Expert 2	Professor, JSSATE, Bangalore	Dr. Yogesha K B	yogeshakb@jssateb.ac.in	9448412504
04	VTU Nominee	Professor, Department of ME, R V C E, B Bangalore	Dr. Bharathish	bharatisha@rvce.edu.in	9538288686
05	Industry representative	Cofounder & Managing Director, Medini Technologies	Mr. Pradeep Kallur	pradeep@medini.in	99000 81006
06	Industry representative	Joint Director/Scientist DRDO, Bangalore	Dr. T Ram Prabhu	ramprabhu.t@gmail.com	9535531407
07	Alumni	Analyst, Renewable Energy and Energy Efficiency, CSTEP Bengaluru -560094	Mr. Suhas Sathyakiran	suhas.sathyakiran@cstep.in	8073200435
08	Member convenor	Competent senior faculty of the department	Dr. Ravi Kumar D V	ravikumardv@gat.ac.in	9986579555
09	Member		Dr. Vijay T	vijayt@gat.ac.in	9341865545
10	Member		Dr. V. Ravi Kumar	v.ravikumar@gat.ac.in	9845477405
11	Member		Dr. Shreekala N	shreekala.n@gat.ac.in	9980676867
12	Invited member	Principal	Dr. H.B. Balakrishna	principal@gat.ac.in	8050003891
13	Invited member	Dean Academics	Dr. Latha Rajagopalan	dean@gat.ac.in	9942436354

Signature of the HoD
Head of Department
Mechanical Engineering
Global Academy of Technology
Bangalore - 98

Signature of the Principal
PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

GLOBAL ACADEMY OF TECHNOLOGY

Autonomous Institution Affiliated to Visveswaraya Technological University
Approved by UGC, AICTE and Govt of Karnataka
NBA Accredited CSE, ISE, ECE, EEE, ME and Civil Engineering Programs

Meeting of all members of Board of Studies (Mechanical Engineering)
Meeting Chair: Dr. Bharat Vinjamuri, BoS Chairman (ME)
Date: 30-05-2025
Venue: Conference Hall, GAT
Meeting time: 12:00 Noon

AGENDA

Agenda 1: *Discussion on Third to Eighth semester scheme and syllabus for 2024 Batch.*

Agenda 2: *Presentation and Discussion of Newly Introduced courses*

Agenda 3: *Presentation of Elective Course Options and Criteria for Selecting Electives*

Agenda 4: *Review of Courses That Have Undergone Revision in 2023 Scheme*

Agenda 5: *Courses Addressing Employability, Entrepreneurship, and Skill Development*

Agenda 6: *Discussion on Certificate/Diploma/Value added Programs*

Agenda 7: *List of Courses That Address Issues Related to Gender, Environment, and Sustainability, Human Values, and Professional Ethics*

Agenda 8: *Discussion on Feedback from Stakeholders on the Curriculum*

Agenda 9: *Discussion on Skill labs*

Agenda 10: *Feedback and Suggestions from Faculty and Experts*

Sl. No.	Designation	Members	Email	Signature
01	Chairman	Dr. Bharat Vinjamuri, Prof. & HoD, Dept. of ME	hodmech@gat.ac.in bharat.vk@gat.ac.in 9986579555	30/5/25
02	Subject Expert 1	Dr. Jagannath Gupta Assoc. Prof., Department of ME, R V C E, Bangalore	jagannathagvl@rvce.edu.in 9243447122	V.L.Gaglu
03	Subject Expert 2	Dr. Yogesha K B Professor, JSSATE, Bangalore	yogeshakb@jssateb.ac.in 9448412504	Absent
04	VTU Nominee	Dr. Bharathish Professor, Department of ME, R V C E, Bangalore	bharatisha@rvce.edu.in 9538288686	
05	Industry representative	Mr. Pradeep Kallur Cofounder & Managing Director, Medini Technologies	pradeep@medini.in 99000 81006	Absent
06	Industry representative	Dr. T Ram Prabhu Joint Director/Scientist DRDO, Bangalore	ramprabhu.t@gmail.com 9535531407	30/5/25

GLOBAL ACADEMY OF TECHNOLOGY

Autonomous Institution Affiliated to Visveswaraya Technological University
Approved by UGC, AICTE and Govt of Karnataka
NBA Accredited CSE, ISE, ECE, EEE, ME and Civil Engineering Programs

07	Alumni	Mr. Suhas Sathyakiran Analyst, Renewable Energy and Energy Efficiency, CSTEP Bengaluru -560094	suhas.sathyakiran@cstep.in 8073200435	Suhas - S 31/5/25.
08	Member convenor	Dr. Ravi Kumar D V Prof. Dept. of ME	ravikumardv@gat.ac.in 9341865545	31/5/25
09	Member	Dr. Vijay T Prof. & Deputy COE, Dept. of ME	vijayt@gat.ac.in 9480324605	31/5/25
10	Member	Dr. V. Ravi Kumar Assoc. Prof. Dept. of ME	v.ravikumar@gat.ac.in 9845477405	31/5/25
11	Member	Dr. Shreekala N Assoc. Prof. Dept. of ME	shreekala.n@gat.ac.in 9980676867	31/5/25
12	Invited member	Dr. H.B. Balakrishna Principal	principal@gat.ac.in 8050003891	
13	Invited member	Dr. Latha Rajagopalan Dean Academics	dean@gat.ac.in 9942436354	31/05/25

31/5/25

HoD-ME

Head of Department
Mechanical Engineering
Global Academy of Technology
Bangalore - 98

GLOBAL ACADEMY OF TECHNOLOGY

Autonomous Institution Affiliated to Visveswaraya Technological University
Approved by UGC, AICTE and Govt of Karnataka
NBA Accredited CSE, ISE, ECE, EEE, ME and Civil Engineering Programs

Meeting of all members of Board of Studies (Mechanical Engineering)
Meeting Chair: Dr. Bharat Vinjamuri, BoS Chairman (ME)

Date: 30-05-2025
Venue: Conference Hall, GAT
Meeting time: 12:00 Noon

Members Present

Sl. No.	Designation	Members	Email	Signature
01	Chairman	Dr. Bharat Vinjamuri, Prof. & HoD, Dept. of ME	hodmech@gat.ac.in bharat.vk@gat.ac.in 9986579555	
02	Subject Expert 1	Dr. Jagannath Gupta Assoc. Prof., Department of ME, R V C E, Bangalore	jagannathagvl@rvce.edu.in 9243447122	
03	Subject Expert 2	Dr. Yogesha K B Professor, JSSATE, Bangalore	yogeshakb@jssateb.ac.in 9448412504	Absent
04	VTU Nominee	Dr. Bharathish Professor, Department of ME, R V C E, Bangalore	bharatisha@rvce.edu.in 9538288686	
05	Industry representative	Mr. Pradeep Kallur Cofounder & Managing Director, Medini Technologies	pradeep@medini.in 99000 81006	Absent
06	Industry representative	Dr. T Ram Prabhu Joint Director/Scientist DRDO, Bangalore	ramprabhu.t@gmail.com 9535531407	31/5/25
07	Alumni	Mr. Suhas Sathyakiran Analyst, Renewable Energy and Energy Efficiency, CSTEP Bengaluru -560094	suhas.sathyakiran@cstep.in 8073200435	Suhas S 31/05/25
08	Member convenor	Dr. Ravi Kumar D V Prof. Dept. of ME	ravikumardv@gat.ac.in 9341865545	31/5/25
09	Member	Dr. Vijay T Prof. & Deputy COE, Dept. of ME	vijayt@gat.ac.in 9480324605	31/5/25
10	Member	Dr. V. Ravi Kumar Assoc. Prof. Dept. of ME	v.ravikumar@gat.ac.in 9845477405	31/5/25
11	Member	Dr. Shreekala N Assoc. Prof. Dept. of ME	shreekala.n@gat.ac.in 9980676867	31/5/25
12	Invited member	Dr. H.B. Balakrishna Principal	principal@gat.ac.in 8050003891	
13	Invited member	Dr. Latha Rajagopalan Dean Academics	dean@gat.ac.in 9942436354	31/05/25

GLOBAL ACADEMY OF TECHNOLOGY
Autonomous Institution Affiliated to Visveswaraya Technological University
Approved by UGC, AICTE and Govt of Karnataka
NBA Accredited CSE, ISE, ECE, EEE, ME and Civil Engineering Programs

Meeting Minutes

The Board of Studies (BoS) meeting commenced at **12:00 noon on 31th May 2025**, chaired by **Dr. Bharat Vinjamuri**, Head of the Department of Mechanical Engineering and Chairman of the BoS. The meeting was attended by all designated members, except **Mr. Yogesha K B**, Subject Expert from JSSATE, and **Mr. Pradeep Kallur**, Industry Representative, who were unable to attend.

Dr. Bharat Vinjamuri extended a warm welcome to all participants and shared key academic initiatives undertaken by the department. He emphasized the critical need for **continuous curriculum enhancement** to ensure that graduates are **well-equipped for industry demands** and aligned with emerging technological trends.

The detailed discussions and inputs corresponding to each agenda item are summarized below, reflecting the **constructive feedback and insightful suggestions** offered by the BoS members.

Meeting Summary

Agenda 1: Discussion and approval of Third to Eighth Semester Scheme and second year syllabus for 2024 Batch

The BoS reviewed and compared the **credit distribution of the Mechanical Engineering curriculum at GAT** with the AICTE Model Curriculum and VTU guidelines. The alignment ensures academic flexibility, interdisciplinary learning, employability, and compliance with regulatory standards.

Sl. No.	Category	AICTE Credits	VTU Credits	GAT Credits
1	Humanities & Social Sciences including Management	12	10	7
2	Basic Science Courses	25	23	20
3	Engineering Science Courses (workshop, drawing, basic electrical/mechanical)	24	20	24
4	Professional Core Courses	48	43	56 (30+20+6)
5	Professional Electives / Ability Enhancement Courses	18	14	26 (15+11)
6	Open Electives / Emerging Areas / NCC/NSS / AEC	18	14	6
7	Mini/Major Projects, Internship, Seminar, Research	15	32	21
8	Mandatory Non-Credit Courses (Environmental Science, UHV, Constitution, Kannada)	—	4	-

Head of Department
Mechanical Engineering
Global Academy of Technology
Bangalore - 98

- The BoS reviewed the proposed scheme for semesters III to VIII, which follows VTU guidelines and outcome-based education.
- The curriculum ensures a balanced inclusion of Professional Core (PCC), Electives (PEC, OEC), Project Work, Internships, and Skill Development Courses (AEC).

The third to eighth-semester scheme follows the VTU scheme and the Choice Based Credit System (CBCS)

- The distribution of credits for each semester is as follows:
  - **3rd semester:** 20 credits
  - **4th semester:** 20 credits
  - **5th semester:** 20 credits
  - **6th semester:** 20 credits
  - **7th semester:** 24 credits
  - **8th semester:** 16 credits
- A 14–20-week internship program has been introduced during the 8th semester, carrying ten credits.
- The project work begins in the 5th semester with a Mini Project, continues in the 6th semester with Major Project Phase-1, and in the 7th semester with Major Project Phase-2, with a total of 10 credits allocated for project work.
- Emphasis was placed on increasing hands-on learning, internship credits, and interdisciplinary exposure from 5th semester onwards.

Agenda 2: Presentation and Discussion of Newly Introduced Courses

- The following new courses were presented and discussed:
  - Foundations of EV & Hybrid Vehicles
  - Introduction to AI in Manufacturing
  - EV Battery Technology & Thermal Management
  - Smart Manufacturing and Industry 4.0
  - Digital Marketing
  - Introduction to Biomechanics
  - Green Energy Technology
  - CATIA for Mechanical Engineers
  - Sustainable Product Design
- These were introduced based on industry trends and employability requirements.
- Members appreciated the move and approved their inclusion.

Agenda 3: Presentation of Elective Course Options, Ability Enhancement Courses and Emerging Technology Courses and Criteria for Selecting Electives

- A comprehensive list of Professional Electives, Ability Enhancement Courses and Emerging Technology Courses was presented.

Head of Department
Mechanical Engineering
Global Academy of Technology
Bangalore - 98

GLOBAL ACADEMY OF TECHNOLOGY
Autonomous Institution Affiliated to Visveswaraya Technological University
Approved by UGC, AICTE and Govt of Karnataka
NBA Accredited CSE, ISE, ECE, EEE, ME and Civil Engineering Programs

Professional Electives

SEM	Manufacturing	Thermal	Design	Management
5	Non-Traditional Machining	Green energy Technologies	Design For Manufacturing	Stastical Quality Control
6	Computer Integrated Manufacturing	Building Air Condition	Design of Transmission Elements	Operational Research
7	Additive Manufacturing	Thermal management &Electronic Equipment	Tribology	Total Quality Management

Ability Enhancement Courses

SEM	Skill Set 1	Skill Set 2	Skill Set 3	Skill Set 4
3	3D printing	Spread Sheet for Engineers	Advance Python Programming	Energy Audit
4	GD&T	Digital Marketing	Smart Manufacturing & Industry 4.0	Financial Management
5	MAT Lab	Alternate Fuels	Data Analytics	Introduction to Biomechanics
6	CATIA	Introduction to Condition Monitoring	AR / VR	Sustainable Product Design

Emerging Technology Courses

SEM	Materials/ Manufacturing	Electric vehicle	Vehicle Technology	Artificial Intelligence
3	Material Science and Smart Materials	Foundations of Electric Vehicle & Hybrid vehicles	Automobile Techology and Combustion	Introduction to Artificial Intelligence
4	Composite Materials Technology	Electric Vehicle Technology & Thermal Management	Autotronics	Machine Learning and its Applications in ME

- Professional Electives were categorized by domain (Design, Thermal, Manufacturing, Management) to ensure academic depth and industry relevance.
- Criteria for offering the courses include student interest, faculty expertise, and industrial applicability.

Head of Department
Mechanical Engineering
Global Academy of Technology
Bangalore - 98

GLOBAL ACADEMY OF TECHNOLOGY
Autonomous Institution Affiliated to Visveswaraya Technological University
Approved by UGC, AICTE and Govt of Karnataka
NBA Accredited CSE, ISE, ECE, EEE, ME and Civil Engineering Programs

Agenda 4: Review of Courses That Have Undergone Revision

The following courses underwent syllabus revision:

- Dr. Bharat presented an overview of courses that underwent revision in the scheme. He emphasized the incorporation of modern technologies, updated industry practices, and hands-on experiences in these courses. The board applauded the efforts to keep the curriculum current.

Sl.No	Name of the course	Semester	% of revision
1.	Material Science and Smart Materials	3	50
2.	Composite Materials	4	20
3.	Integrated Mechatronics and Autotronics	4	50

- Revised courses incorporate latest technologies, practical applications, and advanced tools for improved learning outcomes.

Agenda 5: Courses Addressing Employability, Entrepreneurship, and Skill Development

Courses Addressing Employability, Entrepreneurship, and Skill Development

The following lists highlight the courses introduced with a focus on employability, skill development, and entrepreneurship:

- **Courses with a focus on employability:**
  - Mechanics of Materials
  - Material Science and Smart Materials
  - Automobile Engines and Combustion
  - Theory of Machines
  - Machine Design
  - Mechanical Vibrations
  - Finite Element Methods
  - Automation & Robotics
- **Courses with a focus on Skill Development:**
  - Computer-Aided Modelling
  - Foundations of EV & Hybrid Vehicles
  - Introduction to 3D Printing
  - EV Battery Technology & Thermal Management
  - Integrated Mechatronics and Autotronics
  - Smart Manufacturing and Industry 4.0
  - Digital Marketing
  - Data Analytics
  - Introduction to MATLAB
  - Geometric Dimensioning & Tolerancing
  - Digital Marketing
- **Courses with a focus on Entrepreneurship:**
  - Engineering Economics and Management
  - Project & Operations Management
  - Supply Chain Management
  - Total Quality Management

Head of Department
Mechanical Engineering
Global Academy of Technology
Bangalore - 98

- Green Energy Technology
- Smart Manufacturing and Industry 4.0
- Energy Audit and Management
- Sustainable Product Design

The board acknowledged that these courses would significantly enhance students' career readiness by equipping them with essential technical skills and fostering an entrepreneurial mindset. The courses were designed to provide comprehensive knowledge while addressing critical industry requirements.

Agenda 6: Discussion on Certificate/Diploma/Value Added Programs/Online Courses

Data on the certificate programs and value-added programs introduced in the previous year was presented during the meeting. The success and impact of these programs were highlighted, demonstrating the department's commitment to providing a **holistic education.** This commitment was appreciated by the board, and similar programs were proposed for the current academic year. The certificate programs included:

- Certification Programs on CNC Technology
- Certification Programs in 3D Printing
- Certification Programs on Automotive Technology
- Certification Programs on Automation through Hydraulics and Pneumatics
- Certification Programs on Non-Destructive Testing
- Certification Programs on Robotics
- Certification Programs on Simulation tools like MATLAB, Structural Analysis, CFD
- Certification Programs on Drafting and Modelling tools like AutoCAD, CATIA, SolidWorks, Fusion 360
- Certification Programs through MOOCs, which were also made available as professional electives in the final semester.
    - Quality Design & Control Product Design and Manufacturing
    - Machinery Fault Diagnosis and Signal Processing
    - Materials Design for Electronic, Electromechanical and Optical Functions
    - Noise Control in Mechanical Systems
    - Strategies for Sustainable Design
    - Industrial Safety Engineering
    - Business Planning & Project Management

Agenda 7: List of Courses That Address Issues Related to Gender, Environment, and Sustainability, Human Values, and Professional Ethics

A comprehensive list of courses in 2022 scheme that address gender, environmental sustainability, human values, and professional ethics are presented. The board commended the department's inclusivity and the integration of these critical aspects into the curriculum. The following courses were focused on Environment, Sustainability, Human Values, and Professional Ethics

Head of Department
Mechanical Engineering
Global Academy of Technology
Bangalore - 98

- Communicative English
- Professional Writing Skills in English
- Samskrutika Kannada
- Balake Kannada
- Indian Constitution
- Innovation and Design Thinking
- Indian Knowledge System
- Universal Human Values
- Scientific Foundations of Health
- Social Connect and Responsibility
- National Service Scheme
- Physical Education (PE) (Sports and Athletics)
- Yoga

Agenda 8: Discussion on Feedback from Stakeholders on the Curriculum
Feedback from various stakeholders regarding the curriculum was presented, emphasizing several key areas for improvement and enhancement:

- Students expressed a need for more practical and hands-on learning experiences to better prepare them for industry demands.
- Faculty suggested integrating more live projects into the curriculum to enhance real-world application and facilitate experiential learning.
- Industry representatives highlighted the importance of aligning course content with current industry trends and expectations, ensuring that graduates are well-equipped with relevant skills.
- There was a general consensus on the desire for increased collaboration between the department and industry partners to facilitate internships and job placements, providing students with valuable industry exposure.
- Stakeholders emphasized the need for continuous assessment and updates to the curriculum to ensure it remains relevant and effective in addressing the evolving demands of the mechanical engineering field.

The board acknowledged the importance of this feedback and discussed potential strategies to incorporate these suggestions into the curriculum for the upcoming academic year. Enhancing the alignment of the curriculum with both student needs and industry requirements was considered a priority.

Agenda 9: Discussion on Skill Labs
As part of the university guidelines, the department has introduced the following skill labs to enhance students' practical knowledge and hands-on experience:

- **CNC Turning**
- **CNC Milling**
- **3D Printing**
- **Automotive Technology**
- **Automation through Hydraulics and Pneumatics**

Head of Department
Mechanical Engineering
Global Academy of Technology
Bangalore - 98

Students will benefit from extensive hands-on training in these lab sessions, which will equip them with vital skills for their future careers in mechanical engineering. Dean Academics commended the department's initiatives to establish skill labs, emphasizing that these enhancements reflect the department's dedication to providing practical training in accordance with university standards.

Agenda 10: Feedback and Suggestions from Faculty and Experts

Several valuable insights and forward-looking suggestions were provided by the members during the discussion:

1. **Dr. T Ram Prabhu (Industry Representative – DRDO):**
   - Recommended introducing Digital Twin Technology as a new elective subject.
   - Emphasized integrating AI and IoT in student projects to align with industry applications.
   - Suggested that students must develop project models from core subjects, encouraging creativity and ownership.
   - Highlighted the need for syllabi to be application-oriented, computationally rich, and job-focused.
   - Proposed the inclusion of drawing interpretation, standards, specifications, and FEM-based simulation in manufacturing courses.
   - Suggested offering NDT Level 1 certification through industry collaboration as part of a Value-Added Program (VAP).
   - Recommended training students in key industry sectors: automobiles, oil & gas, sales & marketing, quality, supply chain, and design.
   - Called for interdisciplinary faculty involvement in curriculum design to enrich course content.
   - Suggested exploring the application of AI in mathematics to enhance analytical understanding.
   - Advocated for building student confidence in core mechanical subjects so they feel like circuit engineers with end-to-end knowledge.

2. **Dr. Bharathish (VTU Nominee – RVCE):**
   - Emphasized the importance of inter-institutional collaboration through MoUs at the department level to facilitate UG training and resource sharing.
   - Strongly advocated for experiential learning components to be embedded across the curriculum, aligning with NEP 2020 and OBE guidelines.

3. **Dr. Jagannath Gupta (Subject Expert – RVCE):**
   - Shared insights about Benz and EV Labs at RV College, where students pursue PG diplomas post-graduation—suggesting a similar vision at GAT.
   - Highlighted that 12 Centers of Excellence (CoEs) at RVCE have internship components, which could serve as a model.
   - Proposed the establishment of a Mechanical Engineering Consortium involving institutions for curriculum enhancement and resource optimization.

Head of Department
Mechanical Engineering
Global Academy of Technology
Bangalore - 98

GLOBAL ACADEMY OF TECHNOLOGY
Autonomous Institution Affiliated to Visveswaraya Technological University
Approved by UGC, AICTE and Govt of Karnataka
NBA Accredited CSE, ISE, ECE, EEE, ME and Civil Engineering Programs

4. **Mr. Suhas Sathyakiran (Alumnus – CSTEP):**
   - Suggested designing advanced electives around Smart Materials, covering batteries, magnets, semiconductors used in EVs, and application-based material selection to meet evolving energy and transportation demands.

These suggestions will be reviewed and integrated into future iterations of the curriculum based on feasibility, resource availability, and industry alignment.

Meeting Actions

Here is the Action Taken Report (ATR) based on the suggestions and discussions held during the Board of Studies (BoS) Meeting on 31st May 2025, Department of Mechanical Engineering, Global Academy of Technology

Suggested Changes During the BoS Meeting

Agenda Item	Suggestions Received	Action Taken / Proposed Implementation
Agenda 1: Third to Eighth Semester Scheme	Align with outcome-based education and VTU norms	Scheme finalized with clear CO-PO mapping, credits balanced for theory, labs, projects, and internships
Agenda 2: Newly Introduced Courses	Robotics, Hydraulics & Pneumatics, CNC Turning, VMC, NDT	Courses approved and added from the 5th semester onward with appropriate lab/practical support
Agenda 3: Elective Courses	Ensure relevance and diversity; introduce Smart Manufacturing, EV Tech, AI	Professional & Open Electives revised; emerging tech electives offered across 5th to 8th semesters
Agenda 4: Revised Courses	Revise outdated content in Material Science, Composite Materials, Mechatronics	Revisions implemented with at least 20–50% updates; lab integration enhanced
Agenda 5: Employability & Skill Development	Introduce job-oriented content and certifications	Value-added programs like Data Analytics, MATLAB, Biomechanics, etc., integrated; courses realigned for job readiness
Agenda 6: Certificate/Diploma/VAPs	NDT Level 1 Certification, Biomechanics, Alternate Fuels, Data Analytics	NDT VAP initiated through industry collaboration; departmental calendar includes two VAPs per semester
Agenda 7: Courses on Social Issues & Ethics	Include IKS, Human Values, Sustainability	Courses on UHV, Energy & Environment, Green Technologies retained and emphasized
Agenda 8: Stakeholder Feedback	Strengthen industry focus, include AI/ML, sustainability	Feedback analyzed and reflected in newly introduced and revised courses; EV & AI components added
Agenda 9: Skill Labs	Strengthen lab-based learning in manufacturing, simulation	Labs modernized; CATIA, CNC, AR/VR introduced; additional lab hours added to select courses
Agenda 10: Expert Feedback	Multiple suggestions summarized below	See detailed breakdown below

Head of Department
Mechanical Engineering
Global Academy of Technology
Bangalore - 98

GLOBAL ACADEMY OF TECHNOLOGY
Autonomous Institution Affiliated to Visveswaraya Technological University
Approved by UGC, AICTE and Govt of Karnataka
NBA Accredited CSE, ISE, ECE, EEE, ME and Civil Engineering Programs

Detailed Action Taken on Expert Suggestions (Agenda 10)

Expert	Suggestion	Action Taken / Plan
Dr. T Ram Prabhu	Introduce Digital Twin as elective	Included in elective bank for 7th semester, content under development
	Integrate AI/IoT in projects	Capstone project guidelines will be revised to include AI/IoT options
	Emphasize application-connected syllabus	Mapping of every course outcome to real-world applications implemented
	Include computational tools in curriculum	Simulation software (MATLAB, ANSYS, Fusion 360) now part of regular coursework
	Drawing reading, standards, FEM-based simulations	Content added in Material Science, Material Testing, Foundry & Design of Machine Elements courses
	NDT Level 1 certification as VAP	VAP is being suggested with an industry partner for certification
	Industry sector-specific training	Career awareness sessions and domain-specific training planned through Career Development Cell
Dr. Bharathish	Promote MoUs with other institutes	Initiated discussions for MoUs with peer institutions (RVCE) for UG training
	Emphasize experiential learning	Mini and major projects from 5th semester onward ensure this integration
Dr. Jagannath Gupta	Benz/EV Labs – PG diploma model from RVCE	To be proposed in Academic Council; exploring partnerships through peer institutions.
	ME Consortium for curriculum	Proposal to be shared with VTU through Dean-Academics
	Simulation and computational exposure	Introduced CATIA, MATLAB, and Python in AEC courses; labs aligned accordingly
Mr. Suhas Sathyakiran	Smart materials and application-based material selection	Content revised in Material Science course with special focus on EV-relevant materials

These action points will be monitored and addressed in future Board of Studies meetings to guarantee the successful implementation and ongoing enhancement of the Mechanical Engineering curriculum at Global Academy of Technology.

Dr. Bharat Vinjamuri, Head of the Department of Mechanical Engineering, emphasized the significance of collaborative efforts in continuously elevating the quality of education offered by the department. He urged all members to actively participate in the improvement process and to keep communication channels open, fostering a culture of collaboration for the advancement of the curriculum.

31/5/25

Chairman, BoS & HoD
Department of ME
Global Academy of Technology

Head of Department
Mechanical Engineering
Global Academy of Technology
Bangalore - 98

Department of Basic Science and Humanities

Global Academy of Technology
An Autonomous Institution Affiliated to Visvesvaraya Technological University, Belgavi
Approved by UGC, AICTE and Govt. of Karnataka
NBA Accredited CSE, CV, ECE, EEE, ISE and ME Programmes

DEPARATMENT OF SCIENCE & HUMANITIES

MINUTES OF THE BOS(PHYSICS) ONLINE MEETING HELD ON 6 AUGUST 2024 AT 2PM

Subject: Applied Physics(integrated) for CSE, Civil, Mechanical, Electrical streams

(24PHY12A/22A, 24PHY12B/22B, 24PHY12C/22C, 24PHY12D/22D)

The BOS member Dr N V Raju greeted all the members for the online meeting. The discussion took place module by module in different streams

Applied Physics for CSE stream (24PHY12A/22A)

- No changes

Applied Physics for Civil stream(24PHY12B/22B)

Module 1:

- Include LASER applications pertaining to road profiling, distance measurement instead of drilling, welding and cutting.

Module 2:

- Include different types of beams & their applications.

Module 3:

- Include the expression for amplitude & phase in case of forced vibrations.

Applied Physics for Mechanical stream(24PHY12C/22C)

Module 3:

- Include the expression for amplitude & phase in case of forced vibrations.

Applied Physics for EEE stream(24PHY12D/22D)

- No changes

The web link of the recording of the meeting is as follows:
https://gatacin30798.sharepoint.com/sites/PHYSICSDEPARTMENTGAT/Shared%20Documents/General/Recordings/General-20240806_141928-Meeting%20Recording.mp4?web=1&referrer=Teams.TEAMS-WEB&referrerScenario=MeetingChicletGetLink.view&referrer=Outlook.Web&referrerScenario=email-linkwithembed

The meeting concluded with the vote of thanks by the BOS member Dr N V Raju to all the members present in the online meeting.

PRINCIPAL
Global Academy of Technology
Udayi Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

Members present:

Sl.No.	Name	Designation	Signature
01	Dr Anil P N Professor & HOD Department of Science & Humanities Global Academy of Technology Rajarajeshwarinagar Bengaluru-560098	**Chairman, BOS, Dept. of Science & Humanities**	
02	Dr K Fakruddin Professor & HOD Department of Physics Ghousia College of Engineering Ramanagara-562159	**BOS Member (VTU – Nominee)**	online
03	Dr N V Raju Professor & HOD Department of Physics Global Academy of Technology Rajarajeshwarinagar Bengaluru-560098	**BOS Member**	N.V.Raju
04	Dr Mahesh D Associate Professor Department of Physics Global Academy of Technology Rajarajeshwarinagar Bengaluru-560098	**BOS Member**	

Global Academy of Technology
An Autonomous Institution Affiliated to Visvesvaraya Technological University, Belgavi
Approved by UGC, AICTE and Govt. of Karnataka
NBA Accredited CSE, CV, ECE, EEE, ISE and ME Programmes

Meeting of members of Board of Studies (Chemistry)

Meeting Chair: Dr. Anil P. N., Chairman BOS, Dept of Science & Humanities
8th August 2024, Meeting time: 11.00 am

Online Meeting:
https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZDVkNTc2Y2MtYWViMi00Y2IxLThhZmMtNjVjMDNlNzY5OThl%40thread.v2/0?context=%7b%22Tid%22%3a%227b887c76-d8d8-4448-9bf5-a51820345eb4%22%2c%22Oid%22%3a%22c2ece7cd-cbea-4d16-86e1-f8487be40870%22%7d

Minutes of the Meeting

Meeting of members of Board of Studies (Chemistry) was conducted on 8th August 2024 in the online mode.
The meeting commenced at 11.00 am with the BOS member Dr. Remya P N, greeting all the members.

The following are the minutes of the meeting

The draft syllabus for 1st and 2nd sem Chemistry for 2024 Scheme (CSE/CV/ME/EEE streams) were presented to the members for their suggestions and subsequent approval.

After discussions and deliberations, the syllabus was approved with the following modifications

1. **Applied Chemistry for CSE stream (24CHE12A/22A)**
   - Module 1: Shift the topic Metal finishing to self study component.
   - Suggested the incorporation of Quantum Chemistry and computational Chemistry for the next academic Year
   - Suggested to include demonstration of softwares like Chemsketch and Chem Draw to draw the structures of simpler molecules (molecules like EDTA, Ferrion etc)
2. **Applied Chemistry for Civil stream (24CHE12B/22B)**
   - Module 3: Suggested to remove the topic Glass
3. **Applied Chemistry for ME stream (24CHE12C/22C)**

   No changes
4. **Applied Chemistry for EEE stream (24CHE12D/22D)**
   - Module 1: Shift the topic Metal finishing to self study component.

Global Academy of Technology
An Autonomous Institution Affiliated to Visvesvaraya Technological University, Belgavi
Approved by UGC, AICTE and Govt. of Karnataka
NBA Accredited CSE, CV, ECE, EEE, ISE and ME Programmes

REVISION OF SYLLABUS OF APPLIED CHEMISTRY

The Department of Chemistry initiated the process of revising the Engineering Chemistry syllabus in accordance with the latest guidelines and scheme prescribed by Visvesvaraya Technological University (VTU), Belagavi. The objective of the revision was to align the curriculum with current technological advancements, industry requirements, interdisciplinary applications, and outcome-based education practices.

As per VTU Scheme and syllabus the Applied Chemistry will be offered as four streams;

1. Applied Chemistry for CSE stream (24CHE12A/22A)
2. Applied Chemistry for Civil stream (24CHE12B/22B)
3. Applied Chemistry for ME stream (24CHE12C/22C)
4. Applied Chemistry for EEE stream (24CHE12D/22D)

The revision process was carried out systematically through departmental discussions, stakeholder consultations, and academic review meetings before forwarding the proposed syllabus to the Board of Studies (BOS) for approval.

Initial Department Meeting

An initial meeting of the Department of Chemistry was conducted to discuss the necessity for syllabus revision as per the VTU scheme.

Meeting Details:
- Date: 01/06/24
- Venue: Department of Chemistry
- Chairperson: Head of the Department
- Members Present: Faculty members of the Department of Chemistry

Agenda:
1. Review of the existing Engineering Chemistry syllabus.
2. Discussion on VTU scheme requirements.
3. Identification of gaps in the current syllabus.
4. Inclusion of emerging topics relevant to engineering applications.
5. Collection of stakeholder feedback.

Key Discussions:
- Faculty members reviewed the present syllabus structure and evaluated its relevance to current engineering and technological trends.
- The need to incorporate application-oriented topics, sustainable chemistry concepts, advanced materials, electrochemical energy systems, and environmental aspects was emphasized.
- It was proposed that the syllabus should focus more on experiential learning, problem-solving skills, and interdisciplinary applications.

The department unanimously resolved to proceed with the syllabus revision process.

Stakeholder Feedback Collection

Feedback was collected from various stakeholders to ensure the revised syllabus meets academic and industry expectations.

Stakeholders Consulted:
- Faculty members
- Students
- Alumni
- Industry experts
- Academic peers

Major Suggestions Received:
1. Inclusion of contemporary topics related to Green Chemistry, Energy storage systems, Nanomaterials, Corrosion engineering, Advanced polymers, and Water treatment technologies.
2. Increased emphasis on practical applications, industry relevance, laboratory skill enhancement, and problem-based learning.
3. Reduction of repetitive theoretical content and introduction of application-based modules.
4. Alignment of course outcomes with Program Outcomes (POs) and Program Specific Outcomes (PSOs).
5. Enhancement of laboratory experiments related to modern engineering applications.

Revision of the Syllabus

Based on stakeholder feedback and VTU guidelines, the department prepared the revised Engineering Chemistry syllabus.

Salient Features of the Revised Syllabus:
- Alignment with the latest VTU scheme and CBCS structure.
- Inclusion of emerging and interdisciplinary topics.
- Focus on sustainable engineering practices.
- Strengthening of laboratory components.
- Outcome-Based Education (OBE) approach.
- Industry-oriented and application-focused modules.

The revised syllabus was carefully mapped with course outcomes and learning objectives to ensure academic effectiveness.

Department Resolution

After detailed deliberations, the Department of Chemistry approved the revised syllabus draft.

The department resolved:
- To adopt the revised syllabus structure in line with VTU recommendations.
- To forward the revised syllabus to the Board of Studies (BOS) for further review and approval.

Decision to Forward to BOS

The finalized syllabus draft was submitted to the Board of Studies (BOS) for consideration and approval.

The department recommended that the revised syllabus be implemented for the forthcoming academic batch as per VTU norms and regulations.

Conclusion

The syllabus revision process was carried out through a participative and systematic approach involving faculty members and various stakeholders. The revised Engineering Chemistry syllabus is expected to enhance students' scientific understanding, engineering applications, employability skills, and research orientation in alignment with VTU academic standards.

Dr. Remya P.N.
Associate Professor
Department of Science & Humanities (Chemistry)

Dr Anil P N
Professor & HOD
Department of Science & Humanities

Global Academy of Technology
An Autonomous Institution Affiliated to Visvesvaraya Technological University, Belgavi
Approved by UGC, AICTE and Govt. of Karnataka
NBA Accredited CSE, CV, ECE, EEE, ISE and ME Programmes

Meeting of members of Board of Studies (Chemistry)

Meeting Chair: Dr. Anil P. N., Chairman BOS, Dept of Science & Humanities
8th August 2024, Meeting time: 11.00 am

Online Meeting:
https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZDVkNTc2Y2MtYWViMi00Y2IxLThhZmMtNjVjMDNlNzY5OThl%40thread.v2/0?context=%7b%22Tid%22%3a%227b887c76-d8d8-4448-9bf5-a51820345eb4%22%2c%22Oid%22%3a%22c2ece7cd-cbea-4d16-86e1-f8487be40870%22%7d

Minutes of the Meeting

Meeting of members of Board of Studies (Chemistry) was conducted on 8th August 2024 in the online mode.
The meeting commenced at 11.00 am with the BOS member Dr. Remya P N, greeting all the members.

The following are the minutes of the meeting

The draft syllabus for 1st and 2nd sem Chemistry for 2024 Scheme (CSE/CV/ME/EEE streams) were presented to the members for their suggestions and subsequent approval.

After discussions and deliberations, the syllabus was approved with the following modifications

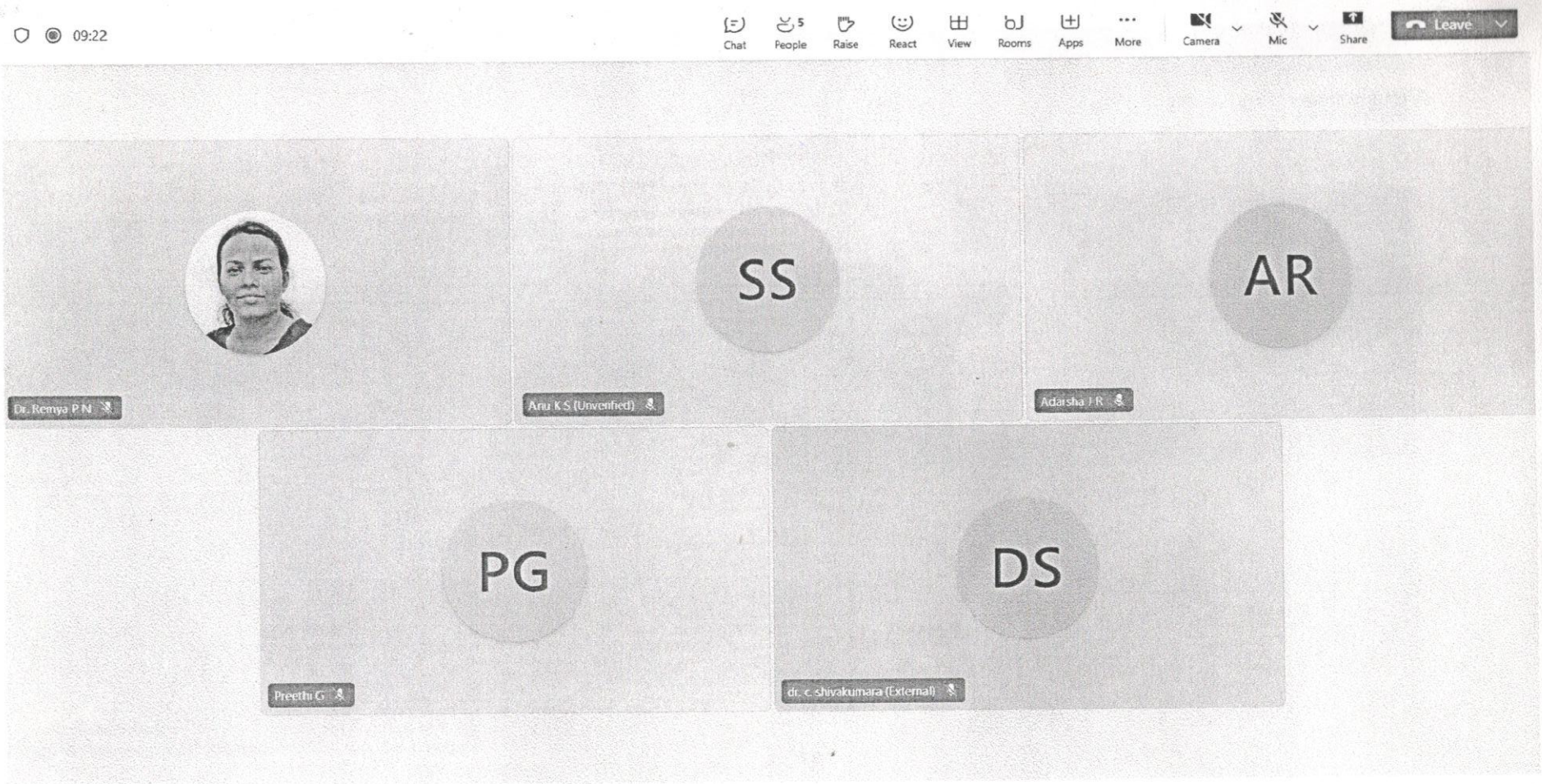
5. **Applied Chemistry for CSE stream (24CHES102/202)**
   - Module 1: Shift the topic Metal finishing to self-study component.
   - Suggested the incorporation of Quantum Chemistry and computational Chemistry for the next academic Year
   - Suggested to include demonstration of softwares like Chemsketch and Chem Draw to draw the structures of simpler molecules (molecules like EDTA, Ferrion etc)
6. **Applied Chemistry for Civil stream (24CHEC102/202)**
   - Module 3: Suggested to remove the topic Glass
7. **Applied Chemistry for ME stream (24CHEM102/202)**

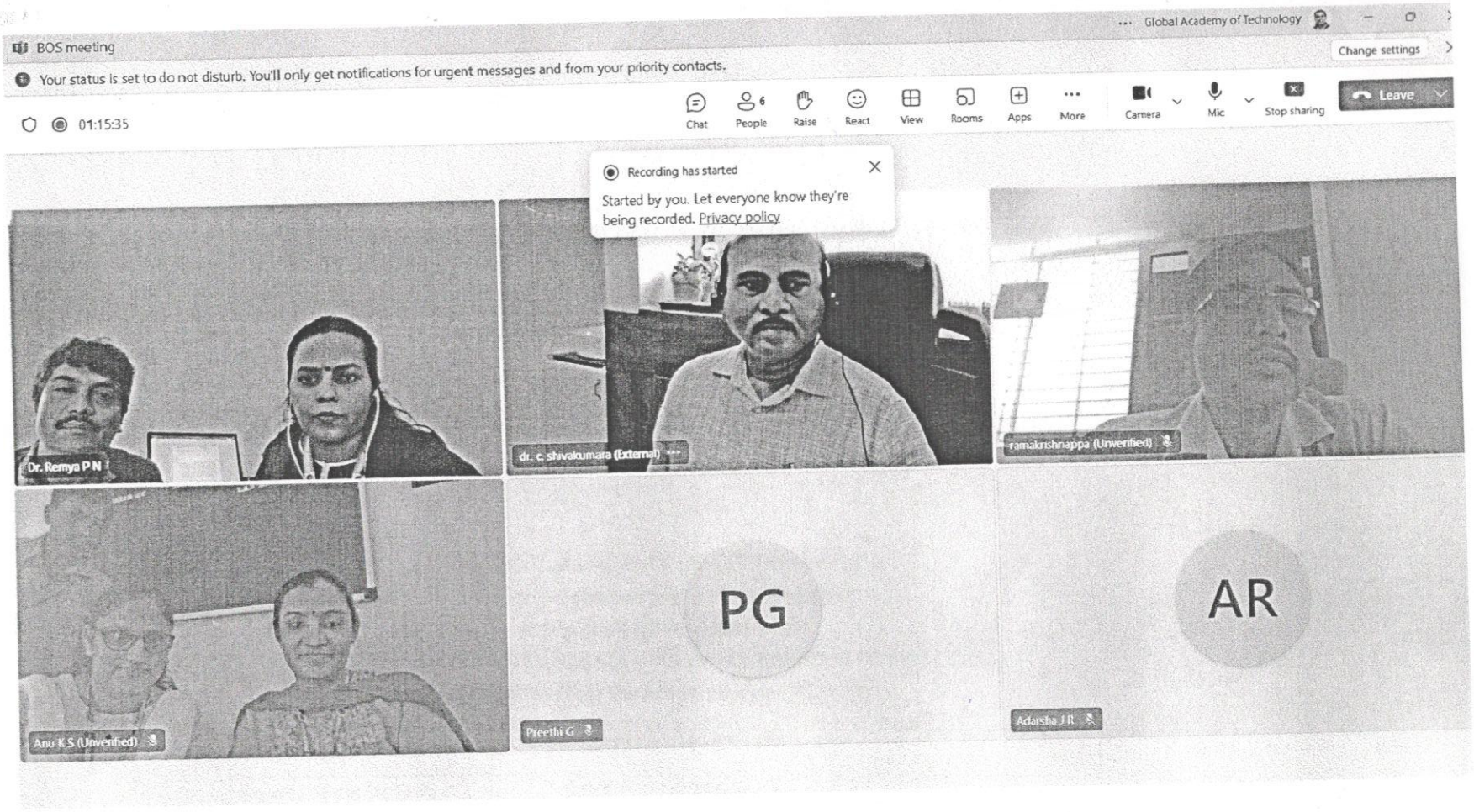
   No changes
8. **Applied Chemistry for EEE stream (24CHEE102/202)**
   - Module 1: Shift the topic Metal finishing to self study component.

The percentage of Change in the syllabus as compared to previous Scheme

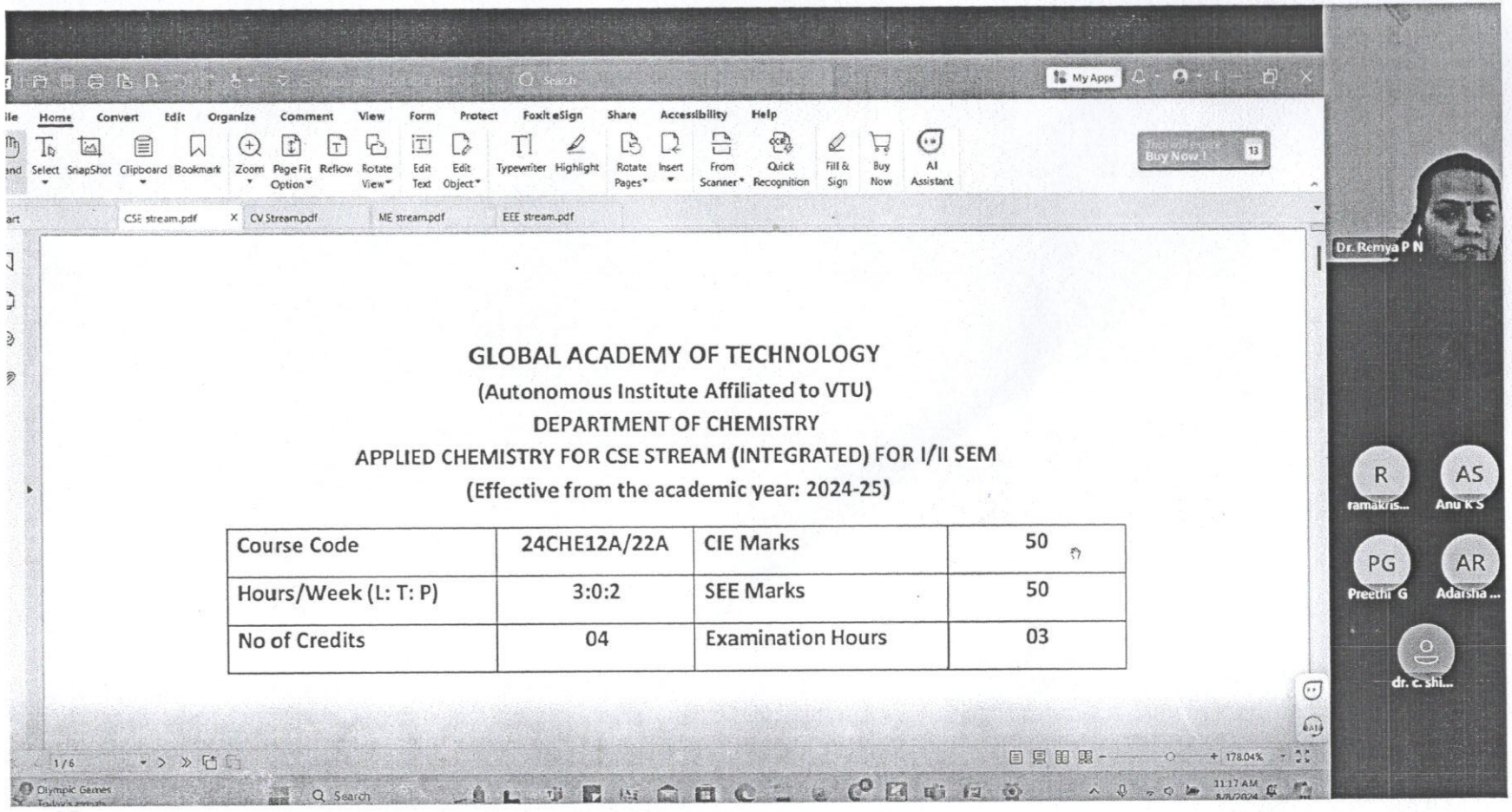
Course Code	% Change
24CHE12A/22A	20%
24CHE12B/22B	20%
24CHE12C/22C	20%
24CHE12D/22D	20%

The meeting concluded with the vote of thanks by the BOS member Dr Remya P. N.


09:22
Chat
People
Raise
React
View
Rooms
Apps
More
Camera
Mic
Share
Leave
Dr. Remya P N
SS
Aru K S (Unverified)
AR
Adarsha J R
PG
Preethu G
DS
dr. c. shivakumara (External)


BOS meeting
Global Academy of Technology
Change settings
Your status is set to do not disturb. You'll only get notifications for urgent messages and from your priority contacts.
01:15:35
Chat
People
Raise
React
View
Rooms
Apps
More
Camera
Mic
Stop sharing
Leave
Recording has started
Started by you. Let everyone know they're being recorded. Privacy policy
Dr. Remya P N
dr. c. shivakumara (External)
ramakrishnappa (Unverified)
Anu K S (Unverified)
PG
Preethi G
AR
Adarsha J R

BOS meeting-20240808_111449-Meeting Recording.mp4



GLOBAL ACADEMY OF TECHNOLOGY

(Autonomous Institute Affiliated to VTU)

DEPARTMENT OF CHEMISTRY

APPLIED CHEMISTRY FOR CSE STREAM (INTEGRATED) FOR I/II SEM

(Effective from the academic year: 2024-25)

Course Code	24CHE12A/22A	CIE Marks	50
Hours/Week (L: T: P)	3:0:2	SEE Marks	50
No of Credits	04	Examination Hours	03

Global Academy of Technology
An Autonomous Institution Affiliated to Visvesvaraya Technological University, Belgavi
Approved by UGC, AICTE and Govt. of Karnataka
NBA Accredited CSE, CV, ECE, EEE, ISE and ME Programmes

Members present:

Sl.No.	Name	Designation	Signature
01	Dr Anil P N Professor & HOD Department of Science & Humanities Global Academy of Technology Rajarajeshwarinagar Bengaluru-560098	**Chairman, BOS, Dept. of Science & Humanities**	
02	Dr. T. Ramakrishnappa, Professor, Department of Chemistry, BMSIT, Doddaballapur Main Road, Avalahalli, Yelahanka, Bengaluru, Karnataka 560064	**VTU - Nominee**	Attended online
03	Dr. C. Shivakumara Principal Research Scientist Solid State and Structural Chemistry Unit Indian Institute of Science Bangalore - 560 012, India	**Expert Member (External)**	Attended online.
04	Dr. Remya P.N. Associate Professor Department of Science & Humanities (Chemistry) Global Academy of Technology Rajarajeshwarinagar Bengaluru-560098	**Member**	Remya.
05	Dr. Adarsha J. R. Associate Professor Department of Science & Humanities (Chemistry) Global Academy of Technology Rajarajeshwarinagar Bengaluru-560098	**Member**	J.R. Adarsha

Invitation to attend the BOS meeting on 08-08-2024

Summarize this email

Dr. Remya P N

To: t.ramakrishnappa@bmsit.in

Reply Reply all Forward

Mon 8/5/2024 1:35 PM

CSE stream.pdf 931 KB | CV Stream.pdf 928 KB | EEE stream.pdf 931 KB

Show all 4 attachments (4 MB) Save all to OneDrive - Global Academy of Technology Download all

Dear Sir,

I hope this email finds you well.

This is regarding the conduction of BOS meeting for the finalization of the syllabus for the academic year 2024-25. The classes for the first-year BE students will be commencing in the first week of September.
We have made some changes in the syllabus and made the syllabus branch-wise.

1. Applied Chemistry for CSE stream
2. Applied Chemistry for EEE stream
3. Applied Chemistry for ME stream and
4. Applied Chemistry for CV stream.

I would like to invite you to attend the BOs meeting on 08-08-24.
The updated syllabi are attached for your kind attention.

Thanking you,
Sincerely,
Remya

Remya P. Narayanan, PhD
Associate Professor, Department Science and Humanities,
Global Academy of Technology, Bangalore, Karnataka

Dr. Remya P N

To: t.ramakrishnappa@bmsit.in

Reply Reply all Forward

Wed 8/7/2024 9:51 AM

Dear Sir,
Thank you so much for agreeing to attend the BOS meeting as the VTU nominee. Kindly find below the link to join the meeting.
Remya Narayanan invited you to a Microsoft Teams Meeting:

BOS Meeting - Syllabus discussion
Thursday, August 8, 2024
11:00 AM - 1:00 PM (IST)
Meeting link: BOS Meeting - Syllabus discussion | Microsoft Teams | Meetup-Join

Thanks & Regards,
Remya

Remya P. Narayanan, PhD
Associate Professor, Department Science and Humanities,
Global Academy of Technology, Bangalore, Karnataka
Phone: 9902083537

BOS meeting

Summarize this email

Dr. Remya P N

Reply Reply all Forward

To: t.ramakrishnappa@bmsit.in

Wed 8/7/2024 9:53 AM

Dear Sir,
Thank you so much for agreeing to attend the BOS meeting as the VTU nominee. Kindly find below the link to join the meeting.

Remya Narayanan invited you to a Microsoft Teams Meeting:

BOS Meeting - Syllabus discussion
Thursday, August 8, 2024
11:00 AM - 1:00 PM (IST)
Meeting link: BOS Meeting - Syllabus discussion | Microsoft Teams | Meetup-Join

Thanks & regards,
Remya

Remya P. Narayanan, PhD
Associate Professor, Department Science and Humanities,
Global Academy of Technology, Bangalore, Karnataka
Phone: 9902083537

BOS meeting- link to join

Summarize this email

Dr. Remya P N

Reply Reply all Forward

To: Shivakumara <shiva@iisc.ac.in>

Cc: t.ramakrishnappa@bmsit.in

Thu 8/8/2024 9:37 AM

Dear Sir,
Kindly use the link below to join the BOS meeting today.

https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZDVkNTc2Y2MtYWViMi00Y2IxLThhZmMtNjVjMDNlNzY5OThl%40thread.v2/0?context=%7b%22Tid%22%3a%227b887c76-d8d8-4448-9bf5-a51820345eb4%22%2c%22Oid%22%3a%22c2ece7cd-cbea-4d16-86e1-f8487be40870%22%7d

Thanks & regards,
Remya

Remya P. Narayanan, PhD
Associate Professor, Department Science and Humanities,
Global Academy of Technology, Bangalore, Karnataka
Phone: 9902083537

GLOBAL ACADEMY OF TECHNOLOGY

Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru – 560 098
Tel: +91 80 28603158, Fax: 28603157, Email: info@gat.ac.in Web: www.gat.ac.in

Meeting of all members of Board of Studies (Mathematics)

Meeting Chair: Dr. Anil P N, Chairman, BOS (Mathematics)

31st July 2024, Meeting time: 3:30 pm

Online Meeting: https://us02web.zoom.us/j/83659354905?pwd=doIi3NmTg8wBXC3bxF7VZNgcVDPaPf.1 9

Meeting ID: 836 5935 4905 Passcode: 123456

Meeting Minutes

A meeting of members of Board of Studies (Mathematics) was called on 31st July 2024. The meeting commenced at 3:30 pm with the Chairman – BOS (Mathematics) greeting all the members.

The following are the minutes of the meeting

- The draft syllabus for 3rd and 4th semester mathematics for 2023 scheme and 1st to 2nd Semester 2024 scheme were presented to all the members for their suggestions and subsequent approval.
- After discussions and deliberations, the syllabus was approved with the following modification
  - Uniform distribution is included in the probability distribution module.
  - Coefficient of correlation is included in Module 5 of MAT23301B and deleted from MAT23401B

The courses for which syllabus was finalized and approved are

Stream	2023 scheme	2024 scheme
CSE	MAT23301A MAT23401A	BMATS24101 BMATS24201
CV	MAT23301B MAT23401B	BMATC24101 BMATC24201
ME	MAT23301C MAT23401C	BMATM24101 BMATM24201
EEE	MAT23301D MAT23401D	BMATE24101 BMATE24201

- The percentage of change in the syllabus as compared to previous scheme is presented as given in the following table

Course Code	Percentage of Change
MAT23301D	60%
MAT23401D	60%
BMATS24101	40%
BMATS24201	80%
BMATM24101	40%
BMATM24201	60%
BMATC24101	40%
BMATC24201	60%
BMATE24101	40%
BMATE24201	80%

The meeting concluded with a thanks note from the Chair of the meeting.

GLOBAL ACADEMY OF TECHNOLOGY

Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru – 560 098
Tel: +91 80 28603158, Fax: 28603157, Email: info@gat.ac.in Web: www.gat.ac.in

31/07/2024

BOS Meeting

Sl. No.	Name	Signature
01	Dr. Anil P Narappanavar, Chairman, BOS (Mathematics), Department of Mathematics, GAT, Bengaluru	
02	Dr. Sri Vanamalla, Professor, IIT (Kanpur) – VTU Nominee	Attended online
03	Dr. Parthanil Roy, Associate Professor, Statistical & Mathematics Unit, Indian Statistical Institute, Bengaluru	Attended online
04	Dr. Prabu Thiagaraj, Senior Scientific Officer, Raman Research Institute, Bengaluru	Attended online
05	Dr. Rupa K, Professor, Department of Mathematics, GAT, Bengaluru	
06	Dr. Mallika K S, Professor, Department of Mathematics, GAT, Bengaluru	
07	Dr. Shashikala S, Associate Professor, Department of Mathematics, GAT, Bengaluru	

Chairman – BOS (Mathematics)
HEAD OF THE DEPARTMENT
Dept. of Mathematics
Global Academy of Technology
Rajarajeshwarinagar, Bangalore - 98

Principal
PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

Global Academy of Technology, Bengaluru-98

Autonomous Institution Affiliated to Visveswaraya Technological University
Approved by UGC, AICTE and Govt of Karnataka, NBA Accredited

Department of Mathematics

Meeting of all members of Board of Studies (Mathematics)

Meeting Chair: Dr. Rupa K, Chairman, BOS (Mathematics)

Date: 23rd May 2025

Time: 2:00 pm

Mode: Online via Zoom app

Meeting link:
https://us04web.zoom.us/j/73816258009?pwd=MQt9TckAgAQOjSfA9ahfwUuUBCaY9V.1

Meeting ID: 738 1625 8009
Passcode: 9DEW1j

Meeting Minutes

Agenda:

1. Welcome and opening remarks by the Chair
2. Discussion on revision of the UG syllabus
3. Introduction of new open elective courses
4. Any other matter

Proceedings:

1. Welcome Address:

The meeting commenced with a welcome address by Dr. Rupa K, who thanked all members for their presence and participation.

2. Syllabus Revision:

The Chair initiated a detailed discussion on the syllabus structure and content for the 3rd and 4th semester of the undergraduate Mathematics course. The members discussed and reviewed proposed revisions to the undergraduate syllabi and the following points were addressed.

- The syllabus for 3rd and 4th semester was reviewed course by course.
- Members noted that the core mathematical content is strong, which helps students to enhance problem-solving skills.
- The Chair emphasized the mapping of course outcomes with program outcomes along with knowledge attributes and promoting interdisciplinary understanding.

3. New Open Elective Courses:

The Board discussed the introduction of the following open elective courses for the 6th/7th semester students.

Proposed electives included:

1. Stochastic Processes and Queuing Theory
2. Linear Algebra for Machine Learning
3. Mathematical Modelling
4. Transform Calculus and Special Functions
5. Numerical Methods for Scientific Computation

The content outlines, prerequisites, and learning outcomes for each proposed elective were presented and discussed.

Some of the key points were discussed highlighting the benefits of offering these as open electives for students from various disciplines:

- These courses build highly valued analytical and computational skills.
- Beneficial for careers in data science, machine learning and scientific computing.
- Courses like *Mathematical Modelling* serve as a solid foundation for advanced studies in engineering.
- Supports academic aspirations in technical, quantitative, and computational research areas.
- Introducing Python programming alongside theoretical concepts allows students to gain practical coding skills while understanding underlying principles. By learning Python, students can apply theoretical knowledge in real-world scenarios, thereby strengthening their technical proficiency and improving their career prospects.

After discussions and deliberations, the syllabus was approved with the following modification.

- Python programming is introduced as experiential learning in the open elective courses:
  - Numerical methods for scientific computation
  - Transform Calculus & Special functions

The courses for which syllabus was finalized and approved are

Stream	2024 scheme	Open Electives 2022 scheme
CSE	BMATS24301 BMATS24401	22MAT751 22MAT752 22MAT753 22MAT754 22MAT755
CV	BMATC24301 BMATC24401	
ME	BMATM24301 BMATM24401	
EEE	BMATE24301 BMATE24401	

The percentage of change in the syllabus as compared to previous scheme is presented as given in the following table.

Course Code	Percentage of Change
BMATS24301	10%
BMATS24401	80%
BMATC24301	60%
BMATC24401	60%
BMATM24301	60%
BMATM24401	60%
BMATE24301	40%
BMATE24401	80%

Conclusion:

The Chair thanked all members for their valuable inputs and concluded the meeting at 3:00 PM.

BOS Meeting

Sl. No.	Name	Signature
01	Dr. Rupa K, Professor, Chairman, BOS (Mathematics), Department of Mathematics, GAT, Bengaluru	
02	Dr. Anil P Narappanavar, Professor & COE, Department of Mathematics, GAT, Bengaluru	
03	Dr. Mallika K S, Professor, Department of Mathematics, GAT, Bengaluru	
04	Dr. Shashikala S, Associate Professor, Department of Mathematics, GAT, Bengaluru	
05	Dr. Sri Vanamalla, Professor, IIT (Kanpur) – VTU Nominee	Attended online
06	Dr. Parthanil Roy, Associate Professor, Statistical & Mathematics Unit, Indian Statistical Institute, Bengaluru	Attended online
07	Dr. Prabu Thiagaraj, Senior Scientific Officer, Raman Research Institute, Bengaluru	Attended online

Chairman – BOS (Mathematics)

HEAD OF THE DEPARTMENT
Dept. of Mathematics
Global Academy of Technology
Rajarajeshwarinagar, Bangalore - 98

Principal

Principal
Global Academy of Technology
R.R. Nagar, Bangalore - 98.

Department of Master of Business Administration

GLOBAL ACADEMY OF TECHNOLOGY

DEPARTMENT OF MANAGEMENT STUDIES

BOARD OF STUDIES – MINUTES OF MEETING

Round 1 – Date of Meeting: ***November 13, 2024*** Time: 02:00 PM to 03:30 PM
Round 2 – Date of Meeting: ***November 21, 2024*** Time: 06:00 PM to 07:30 PM

Venue (Internal): ***Conference Hall, Placement Block***
Venue (External): ***Online (Platform: Microsoft Teams)***

Members of the Board of Studies

S. No.	Name	Designation	Status
1	Dr. H B Balakrishna	Principal, Global Academy of Technology, Bengaluru, Karnataka	Present
2	Dr. Rajashekar Swamy	Dean (Academics), Global Academy of Technology, Bengaluru, Karnataka	Present
3	Dr. Venkatesh Kumar N	Chairman (BOS), Professor & HOD, Department of Management Studies, Global Academy of Technology, Bengaluru, Karnataka	Present
4	Dr. Tanuja Agarwala	VTU Nominee, Professor, Faculty of Management Studies, University of Delhi, New Delhi	Online 13-11-24
5	Mr. Pravin Hungund	Member, Chief Technology Officer, Indian Administrative Fellow, Department of Rural Development and Panchayat Raj, Government of Karnataka	Online 13-11-24
6	Dr. Ramesh A	Member, Professor, Indian Institute of Technology, Roorkee, Uttarakhand	Online 13-11-24
7	Dr. Bipin Kumar Dixit	Member, Associate Professor, Indian Institute of Management, Trichy, Tamilnadu	Online 13-11-24
8	Dr. Shashi Jain	Member, Associate Professor, Indian Institute of Science, Bengaluru, Karnataka	Online 13-11-24

GLOBAL ACADEMY OF TECHNOLOGY Dept. of Management Studies (MBA) BENGALURU-98

Head of the Department
Dept. of Management Studies (MBA)
Global Academy of Technology
Rajarajeshwari Nagar, Bengaluru - 560 098

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

9	Dr. Magesh R	Member, Professor & HOD, Department of Management Studies, Anna University, Chennai, Tamilnadu	Online 21-11-24
10	Dr. Pratap Chandra Mandal	Member, Assistant Professor, Indian Institute of Management, Shillong, Meghalaya	Online 21-11-24
11	Dr. Sriyank Levi	Member, Associate Professor, Department of Management Studies, GAT	Present
12	Dr. Roopa Karnam	Member, Associate Professor, Department of Management Studies, GAT	Present
13	Dr. Anitha G H	Member, Associate Professor, Department of Management Studies, GAT	Present
14	Prof. Dharmendra	Member, Associate Professor, Department of Management Studies, GAT	Present
15	Prof. Anand Guled	Member, Assistant Professor, Department of Management Studies, GAT	Present
16	Prof. Sindhu K K	Member, Assistant Professor, Department of Management Studies, GAT	Present
17	Prof. Sandhya Y Umesh	Member, Assistant Professor, Department of Management Studies, GAT	Present
18	Prof. Sarah Merlyn	Member, Assistant Professor, Department of Management Studies, GAT	Present
19	Prof. MD Yusuf	Member, Assistant Professor, Department of Management Studies, GAT	Present

Head of the Department
Dept. of Management Studies (MBA)
Global Academy of Technology
Rajarajeshwari Nagar, Bengaluru - 560 098

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

AGENDA NOTES

1. Approval of previous BOS meeting's Minutes of Meeting (MoM) held on March 11, 2024 and March 18, 2024.
2. Presentation and discussion of Scheme of teaching and examination of II-year MBA of Batch 2023-25.
3. Presentation and discussion of Scheme of teaching and examination of I and II-year of Batch 2024-26.
4. Presentation and discussion of Electives selection process pertaining to Batch 2023-25 and Batch 2024-26.
5. Presentation and discussion of proposed Syllabus pertaining to Batch 2023-25 (II Year) and Batch 2024-26 (I & II Year).
6. Presentation and discussion of augmented certificate programs pertaining to Batch 2024-26.

MINUTES OF MEETING

1. Dr. Venkatesh Kumar welcomed the esteemed members (first round) of the Board of Studies Dr. Tanuja Agarwala, Dr. Ramesh A, Dr. Bipin Kumar Dixit, Mr. Pravin Hungund, Dr. Shashi Jain and confirmed the quorum to initiate the proceedings with approval of esteemed members of Board of Studies. He has brought to the notice of the Board of Studies that Dr. Pratap Chandra Mandal, IIM Shillong, Dr. Magesh R, Anna University, Chennai, and Mr. Sridip Sarkar, Publicis Sapient shall tentatively attend the meeting on November 21, 2024. The second round of Board of Studies meeting was held on November 21, 2024 (Thursday) between 06:00 PM and 07:30 PM with the welcome note. He presented the following contents for the kind perusal of the Board of Studies.
   a) Presented the strategic initiatives of the Department since April 2024 until November 2024 and highlighted the following:
      - National Stock Exchange Academy's MoU to offer FinTech Specialisation
      - Conduction of FinTech Conclave in association with Brillio Technologies, Centricity Wealth Management, KFin Technologies and Khaitan & Co.
      - Cambridge University's Nodal Centre recognition for Cambridge Assessments (Validity until July 31, 2025)
      - ASSOCHAM's Institutional Membership

GLOBAL ACADEMY OF TECHNOLOGY Dept. of Management Studies (MBA) BENGALURU

Head of the Department
Dept. of Management Studies (MBA)
Global Academy of Technology
Rajarajeshwari Nagar, Bengaluru - 560 098

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

- Conduction of Sustainability Conference and Awards in association with ASSOCHAM and Brillio Technologies
- Proposed Institutional Membership with a) International Accreditation Council for Business Education (IACBE), b) Confederation of Indian Industry (CII), c) Federation of Karnataka Chamber of Commerce and Industry (FKCCI), d) National Association of Software and Services Companies (NASSCOM), and Magic Bus Foundation

b) Profusely expressed and acknowledged the contributions of various industry mentors Ms. Kasturi Cotha (Secretary, National HRD), Mr. Abhishek Ranjan (Global Head for Sustainability, Brillio Technologies), Mr. Omkar (Director-HR, Continental Autonomous Mobility), Mr. Prasad Prabhakar (Principal Consultant, Philips Innovation Campus), Mr. Rohit Srinivasan (MD-BFSI, Brillio Technologies), Mr. Anantha Lakshmana Rao (VP, KPMG), Ms. Eswari Rao (VP, Deutsche Bank), Mr. Venkatesh R (Manager, Supply Quality, Tata Advanced Systems), and Mr. Srinivas Rao (Director, Global Institute of Supply Management) in constructing the elective courses.

c) Broadly explained the Program architecture and the credit classification framework pertaining to Batch 2023-25 and Batch 2024-26. Following are the summary of credit rationalisation as per the affiliating University's mandate:

- No. of Professional Core Courses (3 credits/course) = 7+7+1+0 = 15 Courses = 45 credits
- No. of Professional Softcore Courses = 2+2+1+1 = 06 Courses = 08 credits
- No. of Skill Development and Mandatory non-credit Courses = 1+1+1+1 = 04 Courses = 2 credits
- No. of Professional Elective Courses (3 credits/course) = 0+0+6+6 = 12 Courses = 36 credits
- Internship = 3 credits
- Summer Project / Capstone Project = 6 credits

d) Presented a comprehensive list of courses in I-semester MBA and II-Semester MBA pertaining to Batch 2023-25 and Batch 2024-26 (Refer to Annexures 1 and 2).

e) Enumerated the list of electives offered for Batch 2023-25 and Batch 2024-26. Following is the list of electives:

- Marketing

GLOBAL ACADEMY OF TECHNOLOGY Dept. of Management Studies (MBA) BENGALURU

Head of the Department
Dept. of Management Studies (MBA)
Global Academy of Technology

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bengaluru-560 098

- Finance
- Human Resources
- Data Science
- Supply Chain Management in association with ITC, Geneva
- FinTech in association with NSE Academy

f) Explained the composition of courses in III Semester and IV Semester MBA pertaining to Batch 2023-25 and Batch 2024-26.

III Semester			**IV Semester**		
Course Classification	***No. of Courses***	***No. of Credits***	***Course Classification***	***No. of Courses***	***No. of Credits***
Professional Core Courses	01	03	Professional Core Courses	--	--
Professional Elective Courses	06	18	Professional Elective Courses	06	18
Internship (4 Weeks)	01	03	Capstone Project (8 Weeks)	01	06
Professional Softcore Courses (Laboratory)	01	01	Professional Softcore Courses	01	01
Skill Development (MNCC/Audit Course)	01	00 (P/F)	Skill Development (MNCC/Audit Course)	01	00 (P/F)
Total	**10**	**25**	**Total**	**09**	**25**

g) Detailed the course auction mechanism for Core tracks viz. Core Marketing, Core Finance, Core Human Resources, Core Supply Chain Management, Core Data Science, and Core FinTech electives using the courses listed in the fundamental basket and augmented basket. Brought to the notice of the Board that the dual channel is permitted only in core electives whose combination listed below:

- Marketing + Finance
- Marketing + Human Resources
- Finance + Human Resources

Since super specializations such as Data Science, Supply Chain Management, and FinTech are expected to be offered in association with renowned industry partners,

Dept. of Management Studies (MBA) GLOBAL ACADEMY OF TECHNOLOGY BENGALURU-98

Head of the Department
Dept. of Management Studies (MBA)
Global Academy of Technology

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

and complexities in aligning the credits between specializations, temporarily the dual channels in these super specializations are forbidden.

h) Presented the exhaustive list of courses under the fundamental basket and the augmented basket of all electives (Refer to Annexure 5). Also showcased the exhaustive enumeration of the scheme of teaching and evaluation pertaining to III & IV Semester (Refer to Annexure 3.1, 3.2, 3.3, 3.4, 4.1, 4.2, 4.3, and 4.4)

i) Submitted the following value-added certificate programs for the Board's approval.

- Cambridge Assessment – Lingua Skills
- NSE Academy's NCFM certification on Financial Markets
- Project Management course through NPTEL
- Certificate courses on Digital Marketing and Block Chain Technology

j) After completion of an exhaustive presentation about various Teaching-Learning deliverables, Dr. Venkatesh Kumar requested the esteemed members of the Board to initiate the review process pertaining to all submissions and requested Dr. Tanuja Agarwala to share her views on the proposed scheme of teaching and evaluation, syllabus and value-added certificate courses.

2. Dr. Tanuja Agarwala initiated the review process by appreciating the process adopted by the Department in constructing a robust curriculum and rendered the following suggestions:

a) Although a sizable number of value-added courses are offered, the load in the program-related courses may place little stress on the students, or the seriousness among students taking these courses may slightly diminish.

b) Offer the value-added courses on a need basis and spread it throughout the program duration, which will reduce the burden on the students.

c) For selection of elective courses, instead of offering fundamental group and augmented group, which perhaps forces the students to select from the limited options available in fundamental group and augmented group, a combined option can be given to enable the students to exercise their choices.

d) Suggested to include a course on "Business Ethics and Corporate Governance" as a full 3 credit course.

e) Recommended and approved the full (I year & II year) scheme of teaching and evaluation, syllabus, and value-added courses for the Batch 2024-26 as well as the II year scheme of teaching and evaluation & syllabus for the Batch 2023-25.

Dept. of Management Studies (MBA) GLOBAL ACADEMY OF TECHNOLOGY BENGALURU-98

Head of the Department
Dept. of Management Studies
Global Academy of Technology
Rajarajeshwari Nagar, Bengaluru - 560 098

Principal
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

3. Dr. Venkatesh Kumar expressed gratitude to Dr. Tanuja Agarwala and requested Dr. Ramesh to share his suggestions on the scheme of teaching and evaluation, syllabus and other course-related deliverables.
   a) Appreciated the futuristic approach adopted in devising the curriculum and the robust courses introduced in the program.
   b) Recommended and approved the full (I year & II year) scheme of teaching and evaluation, syllabus, and value-added courses for the Batch 2024-26 as well as the II-year scheme of teaching and evaluation & syllabus for the Batch 2023-25.
4. Dr. Venkatesh Kumar extended gratitude to Dr. Ramesh and requested Mr. Pravin Hungund to share his insights on the proposed scheme of teaching and evaluation, syllabus and other course related deliverables.
   a) Extended heartfelt appreciation for a well thought-out and well-structured curriculum.
   b) Profusely appreciated for including sectoral specific technology-oriented courses in electives. Elaborated how Digital Public Infrastructure (DPI) in our country is scaling up the operations of the Government and Private organisations.
   c) Suggested to include a separate track on Technology Management / Digital Transformation and include all the cutting-edge courses to create competitive advantage for the program.
   d) Recommended and approved the full (I year & II year) scheme of teaching and evaluation, syllabus, and value-added courses for the Batch 2024-26 as well as the II-year scheme of teaching and evaluation & syllabus for the Batch 2023-25.
5. Dr. Venkatesh Kumar extended gratitude to Mr. Pravin Hungund and requested Dr. Shashi Jain to share his views on the proposed scheme of teaching and evaluation, syllabus and other course related deliverables.
   a) Thanked all the members of the fraternity for the wonderful preparation of the course curriculum.
   b) Suggested that a few courses from the Data Science track can be offered as core courses in the first year, as the industries are embracing a different technology landscape, this would certainly augment the course-related deliverables and students would be able to gain advantage.

Head of the Department
Dept. of Management Studies (MBA)
Global Academy of Technology
Rajarajeshwari Nagar, Bengaluru - 560 098

GLOBAL ACADEMY OF TECHNOLOGY ★ BENGALURU-98 ★ Dept. of Management Studies (MBA)

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

c) Suggested to check the validity/authenticity of value-added programs offered by various bodies and the quality of certification. Also, advised to validate the integration part with the existing curriculum as a credit transfer mechanism.

d) Recommended and approved the full (I year & II year) scheme of teaching and evaluation, syllabus, and value-added courses for the Batch 2024-26 as well as the II-year scheme of teaching and evaluation & syllabus for the Batch 2023-25.

6. Dr. Venkatesh Kumar extended gratitude to Dr. Shashi Jain and requested Dr. Bipin Kumar Dixit to share his detailed views on the proposed scheme of teaching and evaluation, syllabus and other course related deliverables.

a) Appreciated the comprehensive exercise adopted by the Department to build a robust curriculum.

b) Acknowledged the fact that inclusion of industry bodies and industry experts while framing the curriculum is deemed necessary for the business administration program.

c) Seconded the opinion rendered by Dr. Tanuja Agarwala for selection of elective courses. Emphasised the best practices from eminent Business schools for exercising the choice of elective courses. Suggested that instead of creating different groups for elective courses, all of them can be combined and offered. Depending on the market conditions, the students shall be given complete autonomy to select the elective courses by imbibing the crux of choice-based credit system.

d) Suggested to include an elective course on "Financial Statement Analysis" and it can be offered either in the third semester or the fourth semester.

e) Suggested to revisit the Module 3 of 23MBAFM305 – Corporate Valuation" course as there were contents irrelevant to this course. This irrelevant content perhaps shall be the components of the Income Tax course.

f) Recommended and approved the full (I year & II year) scheme of teaching and evaluation, syllabus, and value-added courses for the Batch 2024-26 as well as the II-year scheme of teaching and evaluation & syllabus for the Batch 2023-25.

7. Dr. Venkatesh Kumar expressed gratitude to Dr. Bipin Kumar Dixit and requested Dr. Magesh R to share his detailed views on the proposed scheme of teaching and evaluation, syllabus and other course related deliverables.

a) Appreciated the framework of courses and the benchmarking processes adopted by the department.

GLOBAL ACADEMY OF TECHNOLOGY Dept. of Management Studies (MBA) BENGALURU-98

Head of the Department
Dept. of Management Studies (MBA)
Global Academy of Technology

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore

b) Suggested to take more inputs from the Alumni while framing the curriculum, as they would be sharing the recent developments in the industry.

c) Suggested to include more dual channels by duly considering the faculty requirement and offer accordingly.

d) Suggested that the Integrated Marketing Communication course can be a fundamental course instead of an augmented course.

e) Validated the affiliating University's credit rationalisation framework and the proposed scheme of teaching and evaluation.

f) Validated the process adopted for undertaking the Internship and Capstone project.

g) Seconded the opinion given by Dr. Pratap Chandra Mandal and opined that a few courses can be offered through either online mode or hybrid mode.

h) Recommended and approved the full (I year & II year) scheme of teaching and evaluation, syllabus, and value-added courses for the Batch 2024-26 as well as the II-year scheme of teaching and evaluation & syllabus for the Batch 2023-25.

8. Dr. Venkatesh Kumar extended gratitude to Dr. Magesh R and requested Dr. Pratap Chandra Mandal to share his detailed views on the proposed scheme of teaching and evaluation, syllabus and other course related deliverables.

a) Suggested to include the electives purely on industry requirements.

b) Suggested to include a niche marketing course such as "Luxury Marketing" and offer it for one credit and rationalise the credits accordingly.

c) Suggested to employ some industry experts on contractual faculty (Professor of Practice) to teach a few niche courses, which have one or two credits.

d) Suggested that for a few niche courses, it can be delivered through fully online mode or hybrid mode, whichever logistically workable.

e) Recommended and approved the full (I year & II year) scheme of teaching and evaluation, syllabus, and value-added courses for the Batch 2024-26 as well as the II-year scheme of teaching and evaluation & syllabus for the Batch 2023-25.

9. Dr. Venkatesh Kumar profoundly expressed gratitude to all the esteemed members of the Board of Studies for their invaluable recommendations.

10. With the approval of all the esteemed Board Members, Dr. Venkatesh Kumar formally ended the meeting deliberations and informed the Board that the next meeting tentatively will be scheduled in the month of August 2025.

GLOBAL ACADEMY OF TECHNOLOGY Dept. of Management Studies (MBA) BENGALURU-98

Head of the Department
Dept. of Management Studies (MBA)
Global Academy of Technology
Rajarajeshwari Nagar Bengaluru - 560 098

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

GLOBAL ACADEMY OF TECHNOLOGY (Autonomous Institution under VTU)

Semester System: Scheme of Teaching and Examination: Batch 2023-25 and 2024-26

I SEMESTER MBA

Annexure 1

S. No.	Course Code	Course title	Offering Department	Teaching Department	Teaching Hours / Week			Examination			Credits
					Theory Lecture	Tutorial	Practical / Drawing	CIE Marks	SEE Marks	Total Marks	
					L	T	P				
1	23/24MBAC11	Organisational Dynamics and Management	MBA	MBA	3	0	0	50	50	100	3
2	23/24MBAC12	Economics for Business Decisions	MBA	MBA	3	0	0	50	50	100	3
3	23/24MBAC13	Financial Reporting and Analysis	MBA	MBA	3	0	0	50	50	100	3
4	23/24MBAC14	Statistical Methods for Corporate Excellence	MBA	MBA	3	0	0	50	50	100	3
5	23/24MBAC15	Essentials of Marketing	MBA	MBA	3	0	0	50	50	100	3
6	23/24MBAC16	Legal Aspects of Business	MBA	MBA	3	0	0	50	50	100	3
7	23/24MBAC17	Digital Transformation and Innovation	MBA	MBA	3	0	0	50	50	100	3
8	23/24MBASC11	Written Analysis and Communication - I	MBA	MBA	2	0	0	50	50	100	2
9	23/24MBASC12	Advanced Data Modelling & Analysis - I	MBA	MBA	--	--	2	50	50	100	1
10	23/24MBASD11	Managing Self and Wellness	MBA	MBA	--	--	2	50	50	100	1
				TOTAL	23	00	04	500	500	1000	25

1. 23/24 represents the respective year of admission; for Batch 2023-25, it shall be read as 23MBAC11 and for Batch 2024-26, it shall be read as 24MBAC11
2. 'C' represents professional core course
3. 'SC' represents professional soft-core course
4. 'SD' represents professional skill development course

Head of the Department
Dept. of Management Studies (MBA)
Global Academy of Technology
Rajarajeshwari Nagar, Bengaluru-560 098

GLOBAL ACADEMY OF TECHNOLOGY ★ BENGALURU-98 ★ Dept. of Management Studies (MBA)

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

GLOBAL ACADEMY OF TECHNOLOGY (Autonomous Institution under VTU)

Semester System: Scheme of Teaching and Examination: Batch 2023-25 and 2024 – 26

II SEMESTER MBA

Annexure 2

S. No.	Course Code	Course title	Offering Department	Teaching Department	Teaching Hours / Week			Examination			Credits
					Theory Lecture	Tutorial	Practical / Drawing	CIE Marks	SEE Marks	Total Marks	
					L	T	P				
1	23/24MBAC21	Strategic Management in Emerging Markets	MBA	MBA	3	0	0	50	50	100	3
2	23/24MBAC22	Startups Management	MBA	MBA	3	0	0	50	50	100	3
3	23/24MBAC23	Operations Management	MBA	MBA	3	0	0	50	50	100	3
4	23/24MBAC24	Corporate Finance	MBA	MBA	3	0	0	50	50	100	3
5	23/24MBAC25	Decision Modelling and Optimisation Techniques	MBA	MBA	3	0	0	50	50	100	3
6	23/24MBAC26	Managing Intellectual Capital	MBA	MBA	3	0	0	50	50	100	3
7	23/24MBAC27	Business Research Methods	MBA	MBA	3	0	0	50	50	100	3
8	23/24MBASC21	Written Analysis and Communication - II	MBA	MBA	2	0	0	50	50	100	2
9	23/24MBASC22	Advanced Data Modelling & Analysis - II	MBA	MBA	0	0	2	50	50	100	1
10	23/24MBASD21	Human Values and Responsible Citizenship	MBA	MBA	0	0	2	50	50	100	1
				TOTAL	23	00	04	500	500	1000	25

1. 23/24 represents the respective year of admission; for Batch 2023-25, it shall be read as 23MBAC21 and for Batch 2024-26, it shall be read as 24MBAC21
2. 'C' represents professional core course
3. 'SC' represents professional soft-core course
4. 'SD' represents professional skill development course

Head of the Department
Dept. of Management Studies - MBA
Global Academy of Technology
Rajarajeshwari Nagar, Bangalore-560 098

GLOBAL ACADEMY OF TECHNOLOGY ★ Dept. of Management Studies (MBA) ★ BENGALURU-98

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

GLOBAL ACADEMY OF TECHNOLOGY (Autonomous Institution under VTU)

Annexure 3.1

Scheme of Teaching and Examination: Batch 2023-25 and Batch 2024-26

III SEMESTER MBA – Core Scheme (Core Marketing, Finance, Human Resources, Data Science, Supply Chain Management and FinTech)

S. No.	Course Code	Course title	Offering Department	Teaching Department	Teaching Hours / Week			Examination			Credits
					Theory Lecture	Tutorial	Practical / Drawing	CIE Marks	SEE Marks	Total Marks	
					L	T	P				
1	23/24MBAC31	Sustainability Development Goals	MBA	MBA	3	0	0	50	50	100	3
2	23/24MBAXX30X	Professional Elective Course 1	MBA	MBA	3	0	0	50	50	100	3
3	23/24MBAXX30X	Professional Elective Course 2	MBA	MBA	3	0	0	50	50	100	3
4	23/24MBAXX30X	Professional Elective Course 3	MBA	MBA	3	0	0	50	50	100	3
5	23/24MBAXX30X	Professional Elective Course 4	MBA	MBA	3	0	0	50	50	100	3
6	23/24MBAXX30X	Professional Elective Course 5	MBA	MBA	3	0	0	50	50	100	3
7	23/24MBAXX30X	Professional Elective Course 6	MBA	MBA	3	0	0	50	50	100	3
8	23/24MBASC31	Advanced Data Modelling and Analysis III (Data Visualisation)	MBA	MBA	0	0	2	50	50	100	1
9	23/24MBAIN31	Internship	MBA	MBA	0	0	6	50	50	100	3
10	23/24MBASD31	Campus-to-Corporate Transformation – Series I	MBA	MBA	MNCC – Audit Course			50	50	100	P/F (0)
				TOTAL	21	0	08	500	500	1000	25

1. 23/24 represents the respective year of admission; for Batch 2023-25, it shall be read as 23MBAC31 and for Batch 2024-26, it shall be read as 24MBAC31
2. Code 'XX' will be replaced by Elective codes viz. 'MM' (Marketing), 'FM' (Finance), 'HR' (Human Resources), 'DS' (Data Science), 'SM' (Supply Chain), and 'FT' (FinTech)
3. Code 'X' will be replaced by Course code ranges from 1 to 9
4. 'IN' represents Internship

Head of the Department
Dept. of Management Studies (MBA)
Global Academy of Technology
Rajarajeshwari Nagar, Bengaluru - 59

GLOBAL ACADEMY OF TECHNOLOGY
Dept. of Management Studies (MBA)
BENGALURU-98

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

GLOBAL ACADEMY OF TECHNOLOGY (Autonomous Institution under VTU)

Scheme of Teaching and Examination: Batch 2023-25 and Batch 2024-26

III SEMESTER MBA – Dual Scheme (Marketing and Finance)

Annexure 3.2

S. No.	Course Code	Course title	Offering Department	Teaching Department	Teaching Hours / Week			Examination			Credits
					Theory Lecture	Tutorial	Practical / Drawing	CIE Marks	SEE Marks	Total Marks	
					L	T	P				
1	23/24MBAC31	Sustainability Development Goals	MBA	MBA	3	0	0	50	50	100	3
2	23/24MBAMM30X	Professional Elective Course 1 (Marketing 1)	MBA	MBA	3	0	0	50	50	100	3
3	23/24MBAMM30X	Professional Elective Course 2 (Marketing 2)	MBA	MBA	3	0	0	50	50	100	3
4	23/24MBAMM30X	Professional Elective Course 3 (Marketing 3)	MBA	MBA	3	0	0	50	50	100	3
5	23/24MBAFM30X	Professional Elective Course 4 (Finance 1)	MBA	MBA	3	0	0	50	50	100	3
6	23/24MBAFM30X	Professional Elective Course 5 (Finance 2)	MBA	MBA	3	0	0	50	50	100	3
7	23/24MBAFM30X	Professional Elective Course 6 (Finance 3)	MBA	MBA	3	0	0	50	50	100	3
8	23/24MBASC31	Advanced Data Modelling and Analysis III (Data Visualisation)	MBA	MBA	0	0	2	50	50	100	1
9	23/24MBAIN31	Internship	MBA	MBA	0	0	6	50	50	100	3
10	23/24MBASD31	Campus-to-Corporate Transformation – Series I	MBA	MBA	MNCC – Audit Course			50	50	100	P/F (0)
				TOTAL	21	0	08	500	500	1000	25

1. 23/24 represents the respective year of admission; for Batch 2023-25, it shall be read as 23MBAC31 and for Batch 2024-26, it shall be read as 24MBAC31
2. Code 'X' will be replaced by Course code ranges from 1 to 9
3. 'IN' represents Internship

Head of the Department
Dept. of Management Studies (MBA)
Global Academy of Technology
Rajarajeshwari Nagar, Bengaluru - 560 098

GLOBAL ACADEMY OF TECHNOLOGY
Dept. of Management Studies (MBA)
BENGALURU-98

GAT/MBA/2024-25/BOS/MOM/21.11.2024

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

GLOBAL ACADEMY OF TECHNOLOGY (Autonomous Institution under VTU)

Scheme of Teaching and Examination: Batch 2023-25 and Batch 2024-26

III SEMESTER MBA – Dual Scheme (Marketing and Human Resources)

Annexure 3.3

S. No.	Course Code	Course title	Offering Department	Teaching Department	Teaching Hours / Week			Examination			Credits
					Theory Lecture	Tutorial	Practical / Drawing	CIE Marks	SEE Marks	Total Marks	
					L	T	P				
1	23/24MBAC31	Sustainability Development Goals	MBA	MBA	3	0	0	50	50	100	3
2	23/24MBAMM30X	Professional Elective Course 1 (Marketing 1)	MBA	MBA	3	0	0	50	50	100	3
3	23/24MBAMM30X	Professional Elective Course 2 (Marketing 2)	MBA	MBA	3	0	0	50	50	100	3
4	23/24MBAMM30X	Professional Elective Course 3 (Marketing 3)	MBA	MBA	3	0	0	50	50	100	3
5	23/24MBAHR30X	Professional Elective Course 4 (HR 1)	MBA	MBA	3	0	0	50	50	100	3
6	23/24MBAHR30X	Professional Elective Course 5 (HR 2)	MBA	MBA	3	0	0	50	50	100	3
7	23/24MBAHR30X	Professional Elective Course 6 (HR 3)	MBA	MBA	3	0	0	50	50	100	3
8	23/24MBASC31	Advanced Data Modelling and Analysis III (Data Visualisation)	MBA	MBA	0	0	2	50	50	100	1
9	23/24MBAIN31	Internship	MBA	MBA	0	0	6	50	50	100	3
10	23/24MBASD31	Campus-to-Corporate Transformation – Series I	MBA	MBA	MNCC – Audit Course			50	50	100	P/F (0)
				TOTAL	21	0	08	500	500	1000	25

1. 23/24 represents the respective year of admission; for Batch 2023-25, it shall be read as 23MBAC31 and for Batch 2024-26, it shall be read as 24MBAC31
2. Code 'X' will be replaced by Course code ranges from 1 to 9
3. 'IN' represents Internship

Head of the Department
Dept. of Management Studies (MBA)
Global Academy of Technology
Rajarajeshwari Nagar, Bengaluru-560 098

GLOBAL ACADEMY OF TECHNOLOGY Dept. of Management Studies (MBA) BENGALURU

GAT/MBA/2024-25/BOS/MOM/21.11.2024

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

GLOBAL ACADEMY OF TECHNOLOGY (Autonomous Institution under VTU)

Scheme of Teaching and Examination: Batch 2023-25 and Batch 2024-26

III SEMESTER MBA – Dual Scheme (Finance and Human Resources)

Annexure 3.4

S. No.	Course Code	Course title	Offering Department	Teaching Department	Teaching Hours / Week			Examination			Credits
					Theory Lecture	Tutorial	Practical / Drawing	CIE Marks	SEE Marks	Total Marks	
					L	T	P				
1	23/24MBAC31	Sustainability Development Goals	MBA	MBA	3	0	0	50	50	100	3
2	23/24MBAFM30X	Professional Elective Course 1 (Finance 1)	MBA	MBA	3	0	0	50	50	100	3
3	23/24MBAFM30X	Professional Elective Course 2 (Finance 2)	MBA	MBA	3	0	0	50	50	100	3
4	23/24MBAFM30X	Professional Elective Course 3 (Finance 3)	MBA	MBA	3	0	0	50	50	100	3
5	23/24MBAHR30X	Professional Elective Course 4 (HR 1)	MBA	MBA	3	0	0	50	50	100	3
6	23/24MBAHR30X	Professional Elective Course 5 (HR 2)	MBA	MBA	3	0	0	50	50	100	3
7	23/24MBAHR30X	Professional Elective Course 6 (HR 3)	MBA	MBA	3	0	0	50	50	100	3
8	23/24MBASC31	Advanced Data Modelling and Analysis III (Data Visualisation)	MBA	MBA	0	0	2	50	50	100	1
9	23/24MBAIN31	Internship	MBA	MBA	0	0	6	50	50	100	3
10	23/24MBASD31	Campus-to-Corporate Transformation – Series I	MBA	MBA	MNCC – Audit Course			50	50	100	P/F (0)
				TOTAL	21	0	08	500	500	1000	25

1. 23/24 represents the respective year of admission; for Batch 2023-25, it shall be read as 23MBAC31 and for Batch 2024-26, it shall be read as 24MBAC31
2. Code 'X' will be replaced by Course code ranges from 1 to 9
3. 'IN' represents Internship

Head of the Department
Dept. of Management Studies - MBA
Global Academy of Technology
Rajarajeshwari Nagar, Bengaluru - 560 098

GLOBAL ACADEMY OF TECHNOLOGY
Dept. of Management Studies (MBA)
BENGALURU-98

GAT/MBA/2024-25/BOS/MOM/21.11.2024

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

GLOBAL ACADEMY OF TECHNOLOGY (Autonomous Institution under VTU)

Scheme of Teaching and Examination: Batch 2023-25 and Batch 2024-26 Annexure 4.1

IV SEMESTER MBA – Core Scheme (Core Marketing, Finance, Human Resources, Data Science, FinTech and Supply Chain Management)

S. No.	Course Code	Course title	Offering Department	Teaching Department	Teaching Hours / Week			Examination			Credits
					Theory Lecture	Tutorial	Practical / Drawing	CIE Marks	SEE Marks	Total Marks	
					L	T	P				
1	23/24MBAXX40X	Professional Elective Course 1	MBA	MBA	3	0	0	50	50	100	3
2	23/24MBAXX40X	Professional Elective Course 2	MBA	MBA	3	0	0	50	50	100	3
3	23/24MBAXX40X	Professional Elective Course 3	MBA	MBA	3	0	0	50	50	100	3
4	23/24MBAXX40X	Professional Elective Course 4	MBA	MBA	3	0	0	50	50	100	3
5	23/24MBAXX40X	Professional Elective Course 5	MBA	MBA	3	0	0	50	50	100	3
6	23/24MBAXX40X	Professional Elective Course 6	MBA	MBA	3	0	0	50	50	100	3
7	23/24MBACP41	Capstone Project	MBA	MBA	0	0	12	50	100	150	6
8	23/24MBASC41	Advanced Data Modelling & Analysis III (R Programming)	MBA	MBA	0	0	2	50	50	100	1
9	23/24MBASD41	Campus-to-Corporate Transformation – Series II	MBA	MBA	MNCC – Audit Course			50	50	100	P/F (0)
				TOTAL	18	0	14	450	500	950	25

1. Code 'XX' will be replaced by Elective codes viz. 'MM' (Marketing), 'FM' (Finance), 'HR' (Human Resources), 'DS' (Data Science), 'SM' (Supply Chain), and 'FT' (FinTech)
2. Code 'X' will be replaced by Course code ranges from 1 to 9
3. 'CP' represents Capstone Project
4. 23/24 represents the respective year of admission; for Batch 2023-25, it shall be read as 23MBAXX40X and for Batch 2024-26, it shall be read as 24MBAXX40X

Head of the Department
Dept. of Management Studies (MBA)
Global Academy of Technology
Rajarajeshwari Nagar, Bengaluru

Dept. of Management Studies (MBA) GLOBAL ACADEMY OF TECHNOLOGY BENGALURU-98

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajeshwari Nagar, Bangalore-560 098

GLOBAL ACADEMY OF TECHNOLOGY (Autonomous Institution under VTU)

Scheme of Teaching and Examination: Batch 2023-25 and Batch 2024-26

IV SEMESTER MBA – Dual Scheme (Marketing and Finance)

Annexure 4.2

S. No.	Course Code	Course title	Offering Department	Teaching Department	Teaching Hours / Week			Examination			Credits
					Theory Lecture	Tutorial	Practical / Drawing	CIE Marks	SEE Marks	Total Marks	
					L	T	P				
1	23/24MBAMM40X	Professional Elective Course 1 (Marketing 1)	MBA	MBA	3	0	0	50	50	100	3
2	23/24MBAMM40X	Professional Elective Course 2 (Marketing 2)	MBA	MBA	3	0	0	50	50	100	3
3	23/24MBAMM40X	Professional Elective Course 3 (Marketing 3)	MBA	MBA	3	0	0	50	50	100	3
4	23/24MBAFM40X	Professional Elective Course 4 (Finance 1)	MBA	MBA	3	0	0	50	50	100	3
5	23/24MBAFM40X	Professional Elective Course 5 (Finance 2)	MBA	MBA	3	0	0	50	50	100	3
6	23/24MBAFM40X	Professional Elective Course 6 (Finance 3)	MBA	MBA	3	0	0	50	50	100	3
7	23/24MBACP41	Capstone Project	MBA	MBA	0	0	12	50	100	150	6
8	23/24MBASC41	Advanced Data Modelling & Analysis III (R Programming)	MBA	MBA	0	0	2	50	50	100	1
9	23/24MBASD41	Campus-to-Corporate Transformation – Series II	MBA	MBA	MNCC – Audit Course			50	50	100	P/F (0)
				TOTAL	18	0	14	450	500	950	25

1. Code 'X' will be replaced by Course code ranges from 1 to 9
2. 'CP' represents Capstone Project
3. 23/24 represents the respective year of admission; for Batch 2023-25, it shall be read as 23MBAXX40X and for Batch 2024-26, it shall be read as 24MBAXX40X

Head of the Department
Dept. of Management Studies (MBA)
Global Academy of Technology
Kalaraleshwari Nagar, Bengaluru - 560 098

GLOBAL ACADEMY OF TECHNOLOGY
Dept. of Management Studies (MBA)
BENGALURU

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

GLOBAL ACADEMY OF TECHNOLOGY (Autonomous Institution under VTU)

Scheme of Teaching and Examination: Batch 2023-25 and Batch 2024-26

IV SEMESTER MBA – Dual Scheme (Marketing and Human Resources)

Annexure 4.3

S. No.	Course Code	Course title	Offering Department	Teaching Department	Teaching Hours / Week			Examination			Credits
					Theory Lecture	Tutorial	Practical / Drawing	CIE Marks	SEE Marks	Total Marks	
					L	T	P				
1	23/24MBAMM40X	Professional Elective Course 1 (Marketing 1)	MBA	MBA	3	0	0	50	50	100	3
2	23/24MBAMM40X	Professional Elective Course 2 (Marketing 2)	MBA	MBA	3	0	0	50	50	100	3
3	23/24MBAMM40X	Professional Elective Course 3 (Marketing 3)	MBA	MBA	3	0	0	50	50	100	3
4	23/24MBAHR40X	Professional Elective Course 4 (Human Resources 1)	MBA	MBA	3	0	0	50	50	100	3
5	23/24MBAHR40X	Professional Elective Course 5 (Human Resources 2)	MBA	MBA	3	0	0	50	50	100	3
6	23/24MBAHR40X	Professional Elective Course 6 (Human Resources 3)	MBA	MBA	3	0	0	50	50	100	3
7	23/24MBACP41	Capstone Project	MBA	MBA	0	0	12	50	100	150	6
8	23/24MBASC41	Advanced Data Modelling & Analysis III (R Programming)	MBA	MBA	0	0	2	50	50	100	1
9	23/24MBASD41	Campus-to-Corporate Transformation – Series II	MBA	MBA	MNCC – Audit Course			50	50	100	P/F (0)
				TOTAL	18	0	14	450	500	950	25

1. 23/24 represents the respective year of admission; for Batch 2023-25, it shall be read as 23MBAXX40X and for Batch 2024-26, it shall be read as 24MBAXX40X
2. Code 'X' will be replaced by Course code ranges from 1 to 9
3. 'CP' represents Capstone Project

Head of the Department
Dept. of Management Studies (MBA)
Global Academy of Technology
Rajaraleshwari Nagar, Bengaluru - 560 098

GLOBAL ACADEMY OF TECHNOLOGY ★ BENGALURU ★ Dept. of Management Studies (MBA)

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

GLOBAL ACADEMY OF TECHNOLOGY (Autonomous Institution under VTU)

Scheme of Teaching and Examination: Batch 2023-25 and Batch 2024-26

IV SEMESTER MBA – Dual Scheme (Finance and Human Resources)

Annexure 4.4

S. No.	Course Code	Course title	Offering Department	Teaching Department	Teaching Hours / Week			Examination			Credits
					Theory Lecture	Tutorial	Practical / Drawing	CIE Marks	SEE Marks	Total Marks	
					L	T	P				
1	23/24MBAFM40X	Professional Elective Course 1 (Finance 1)	MBA	MBA	3	0	0	50	50	100	3
2	23/24MBAFM40X	Professional Elective Course 2 (Finance 2)	MBA	MBA	3	0	0	50	50	100	3
3	23/24MBAFM40X	Professional Elective Course 3 (Finance 3)	MBA	MBA	3	0	0	50	50	100	3
4	23/24MBAHR40X	Professional Elective Course 4 (Human Resources 1)	MBA	MBA	3	0	0	50	50	100	3
5	23/24MBAHR40X	Professional Elective Course 5 (Human Resources 2)	MBA	MBA	3	0	0	50	50	100	3
6	23/24MBAHR40X	Professional Elective Course 6 (Human Resources 3)	MBA	MBA	3	0	0	50	50	100	3
7	23/24MBACP41	Capstone Project	MBA	MBA	0	0	12	50	100	150	6
8	23/24MBASC41	Advanced Data Modelling & Analysis III (R Programming)	MBA	MBA	0	0	2	50	50	100	1
9	23/24MBASD41	Campus-to-Corporate Transformation – Series II	MBA	MBA	MNCC – Audit Course			50	50	100	P/F (0)
				TOTAL	18	0	14	450	500	950	25

1. 23/24 represents the respective year of admission; for Batch 2023-25, it shall be read as 23MBAXX40X and for Batch 2024-26, it shall be read as 24MBAXX40X
2. Code 'X' will be replaced by Course code ranges from 1 to 9
3. 'CP' represents Capstone Project

Head of the Department
Dept. of Management Studies - MBA
Global Academy of Technology
Rajarajeshwari Nagar, Bengaluru - 560 098

GLOBAL ACADEMY OF TECHNOLOGY ★ BENGALURU ★ Dept. of Management Studies (MBA)

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

Annexure 5

Cohort of Courses under each stream

Marketing Specialisation cohort:

III Semester MBA			
Group 1 (Select 3 Courses)		**Group 2 (Select 3 Courses)**	
Course Code	**Fundamental Courses**	**Course Code**	**Augmented Courses**
23/24MBAMM301	Retail Management	**23/24MBAMM305**	Digital Marketing
23/24MBAMM302	Consumer Behaviour	**23/24MBAMM306**	Advanced Marketing Research
23/24MBAMM303	Brand Management	**23/24MBAMM307**	New Product Development
23/24MBAMM304	Strategic Sales Management	**23/24MBAMM308**	Integrated Marketing Communications
--	--	**23/24MBAMM309**	Event Marketing
IV Semester MBA			
Group 1 (Select 3 Courses)		**Group 2 (Select 3 Courses)**	
Course Code	**Fundamental Courses**	**Course Code**	**Augmented Courses**
23/24MBAMM401	Industrial Marketing	**23/24MBAMM405**	Marketing Analytics
23/24MBAMM402	Services Marketing	**23/24MBAMM406**	E-Commerce
23/24MBAMM403	Customer Relationship Management	**23/24MBAMM407**	Sports Management
23/24MBAMM404	Global Marketing Management	**23/24MBAMM408**	Green Marketing
--	--	**23/24MBAMM409**	AI in Marketing

1. 23/24 represents the respective year of admission; for Batch 2023-25, it shall be read as 23MBAMM401 and for Batch 2024-26, it shall be read as 24MBAMM401

Head of the Department
Dept. of Management Studies (MBA)
Global Academy of Technology
Rajarajeshwari Nagar, Bengaluru-560 098

GLOBAL ACADEMY OF TECHNOLOGY
Dept. of Management Studies (MBA)
BENGALURU-98

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

Human Resources Specialisation cohort:

III Semester MBA			
Group 1 (Select 3 Courses)		Group 2 (Select 3 Courses)	
Course Code	Fundamental Courses	Course Code	Augmented Courses
23/24MBAHR301	Talent Acquisition	23/24MBAHR306	Artificial Intelligence in HR
23/24MBAHR302	Industrial Relations & Labor Legislations	23/24MBAHR307	Organizational Leadership
23/24MBAHR303	Compensation and Benefit Management	23/24MBAHR308	Diversity, Equity, Inclusion and Belongingness (DEIB)
23/24MBAHR304	Performance Management System	23/24MBAHR309	HR Metrics and Analytics
23/24MBAHR305	Learning and Development	--	--

IV Semester MBA			
Group 1 (Select 3 Courses)		Group 2 (Select 3 Courses)	
Course Code	Fundamental Courses	Course Code	Augmented Courses
23/24MBAHR401	Strategic Human Resource Management	23/24MBAHR406	Managing Change for Organizational Sustainability
23/24MBAHR402	International Human Resource Management	23/24MBAHR407	Design Thinking for HR
23/24MBAHR403	Rewards and Recognition Management	23/24MBAHR408	HR Accounting and Audit
23/24MBAHR404	Managing Interpersonal Effectiveness	23/24MBAHR409	Stress Management for Managers
23/24MBAHR405	Organization Design Culture and Development	--	--

1. 23/24 represents the respective year of admission; for Batch 2023-25, it shall be read as 23MBAHR401 and for Batch 2024-26, it shall be read as 24MBAHR401

GLOBAL ACADEMY OF TECHNOLOGY ★ BENGALURU-98 ★ Dept. of Management Studies (MBA)

Head of the Department
Dept. of Management Studies (MBA)
Global Academy of Technology
Rajarajeshwari Nagar Bengaluru - 560 098

GLOBAL ACADEMY OF TECHNOLOGY ★ BENGALURU-98 ★ Dept. of Management Studies (MBA)

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

Finance specialisation cohort:

III Semester MBA			
Group 1 (Select 3 Courses)		Group 2 (Select 3 Courses)	
Course Code	**Fundamental Courses**	**Course Code**	**Augmented Courses**
23/24MBAFM301	Income Tax	**23/24MBAFM306**	Green and Sustainable Finance
23/24MBAFM302	Investment Analysis and Portfolio Management	**23/24MBAFM307**	Behavioural Finance
23/24MBAFM303	Financial Markets and Services	**23/24MBAFM308**	Digital Disruptions in Financial Services
23/24MBAFM304	Advanced Financial Management	**23/24MBAFM309**	Export and Import Management
23/24MBAFM305	Corporate Valuation	--	--
IV Semester MBA			
Group 1 (Select 3 Courses)		Group 2 (Select 3 Courses)	
Course Code	**Fundamental Courses**	**Course Code**	**Augmented Courses**
23/24MBAFM401	Corporate Taxation	**23/24MBAFM406**	Project Appraisal: Planning & Control
23/24MBAFM402	Financial Risk Management	**23/24MBAFM407**	Financial Modelling
23/24MBAFM403	International Financial Management	**23/24MBAFM408**	Fixed Income Securities and Markets
23/24MBAFM404	Principles and Practices of Insurance	**23/24MBAFM409**	Introductory Econometrics for Finance
23/24MBAFM405	Technical Analysis	--	--

1. 23/24 represents the respective year of admission; for Batch 2023-25, it shall be read as 23MBAFM401 and for Batch 2024-26, it shall be read as 24MBAFM401

GLOBAL ACADEMY OF TECHNOLOGY Dept. of Management Studies (MBA) BENGALURU-98

Head of the Department
Dept. of Management Studies (MBA
Global Academy of Technology
Rajarajeshwari Nagar, Bengaluru - 560 098

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

Data Science specialisation cohort:

III Semester MBA			
Group 1 (Select 3 Courses)		Group 2 (Select 3 Courses)	
Course Code	**Fundamental Courses**	**Course Code**	**Augmented Courses**
23/24MBADS301	Software Project Management	**23/24MBADS305**	Advanced Multivariate Analysis
23/24MBADS302	Python for Business Modelling	**23/24MBADS306**	Business Intelligence
23/24MBADS303	Enterprise Resource Planning	**23/24MBADS307**	Predictive Analytics
23/24MBADS304	Big Data Analytics	**23/24MBADS308**	Generative Artificial Intelligence
--	--	**23/24MBADS309**	Machine Learning
IV Semester MBA			
Group 1 (Select 3 Courses)		Group 2 (Select 3 Courses)	
Course Code	**Fundamental Courses**	**Course Code**	**Augmented Courses**
23/24MBADS401	Social Media and Web Analytics	**23/24MBADS406**	Financial Analytics
23/24MBADS402	Text and Image Analytics	**23/24MBADS407**	HR Analytics
23/24MBADS403	Block Chain Technology	**23/24MBADS408**	Marketing Analytics
23/24MBADS404	Designing Mobile Applications	**23/24MBADS409**	Supply Chain Analytics
23/24MBADS405	Cyber Security	--	--

1. 23/24 represents the respective year of admission; for Batch 2023-25, it shall be read as 23MBADS401 and for Batch 2024-26, it shall be read as 24MBADS401

GLOBAL ACADEMY OF TECHNOLOGY ★ BENGALURU-98 ★ Dept. of Management Studies (MBA)

Head of the Department
Dept. of Management Studies (MBA)
Global Academy of Technology
Rajarajeshwari Nagar, Bengaluru - 560 098

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

FinTech specialisation cohort:

III Semester MBA			
Courses delivered by NSE (No Choice)		CBCS Courses (Select 2 Courses)	
Course Code	Course Description	Course Code	Course Description
23/24MBAFT301	Introduction to BFSI and FinTech	23/24MBAFT305	Income Tax
23/24MBAFT302	R and Python for Finance	23/24MBAFT306	Investment and Portfolio Management
23/24MBAFT303	AI and ML for Financial Sector	23/24MBAFT307	Corporate Valuation
23/24MBAFT304	Block Chain Technology	23/24MBAFT308	Behavioural Finance
IV Semester MBA			
Courses delivered by NSE (No Choice)		CBCS Courses (Select 2 Courses)	
Course Code	Course Description	Course Code	Course Description
23/24MBAFT401	Cyber Security in BFSI	23/24MBAFT405	Technical Analysis
23/24MBAFT402	Neo Banking Technology	23/24MBAFT406	Financial Risk Management
23/24MBAFT403	Analytics for Finance	23/24MBAFT407	International Financial Management
23/24MBAFT404	FinTech Intelligence	23/24MBAFT408	Fixed Income Securities and Markets

1. 23/24 represents the respective year of admission; for Batch 2023-25, it shall be read as 23MBAFT401 and for Batch 2024-26, it shall be read as 24MBAFT401

GLOBAL ACADEMY OF TECHNOLOGY ★ Dept. of Management Studies (MBA) ★ BENGALURU-98

Head of the Department
Dept. of Management Studies (MBA)
Global Academy of Technology
Rajarajeshwari Nagar, Bengaluru - 560

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

Supply Chain Management specialisation cohort:

III Semester MBA			
Group 1 (ITC Geneva + Regular)		Group 2 (Regular	
Course Code	Course Description (No Choice)	Course Code	Course Description (No Choice)
23/24MBASM301	Strategy and Planning (ITC, Geneva)	23/24MBASM304	Total Quality Management
23/24MBASM302	Sourcing (ITC, Geneva)	23/24MBASM305	Materials Management
23/24MBASM303	Warehouse Management	23/24MBASM306	Value Chain Management
IV Semester MBA			
Group 1 (ITC Geneva + Regular)		Group 2	
Course Code	Course Description (No Choice)	Course Code	Course Description (No Choice)
23/24MBASM401	Operations (ITC, Geneva)	23/24MBASM404	Supply Chain Finance and Blockchain Technology
23/24MBASM402	Logistics (ITC, Geneva)	23/24MBASM405	Omni channel Retail Strategy
23/24MBASM403	Supply Chain Analytics	23/24MBASM406	Machine Learning for Supply Chains

1. 23/24 represents the respective year of admission; for Batch 2023-25, it shall be read as 23MBASM401 and for Batch 2024-26, it shall be read as 24MBASM401

GLOBAL ACADEMY OF TECHNOLOGY ★ BENGALURU-98 ★ Dept. of Management Studies (MBA)

Head of the Department
Dept. of Management Studies (MBA
Global Academy of Technology
Rajarajeshwari Nagar, Bengaluru - 560 098

PRINCIPAL
Global Academy of Technology
Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

Vision

Become a premier institution imparting Quality education in engineering and management to meet the changing needs of society.

Mission

Create environment conducive for continuous learning through quality teaching and learning processes supported by modern infrastructure.

Promote research and innovation through collaboration with industries.

Inculcate ethical values and environmental consciousness through holistic education programs.

GLOBAL ACADEMY OF TECHNOLOGY

(AUTONOMOUS)

Approved by AICTE, New Delhi and Affiliated to VTU, Belagavi

Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru – 560098

www.gat.ac.in

iqac@gat.ac.in

080-28603158/57

Extn : 238