

GLOBAL ACADEMY
OF TECHNOLOGY
growing ahead of time
Autonomous Institute, Affiliated to VTU



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 2023-24



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

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GLOBAL ACADEMY OF TECHNOLOGY

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Office of the Internal Quality Assurance Cell

SUMMARY OF BOARD OF STUDIES (BOS) PROCEEDINGS CURRICULUM DEVELOPMENT MEETINGS HELD DURING THE **AY 2023-24**

S. No.	Name of the Department	Date of Meeting		Page No.
		Odd Term	Even Term	
1	Aeronautical Engineering	07-10-2023	-	1-26
2	Artificial Intelligence and Data Science	30-09-2023	-	27-30
3	Artificial Intelligence and Machine Learning	04-10-2023	06-05-2024	31-62
4	Civil Engineering	16-10-2023	-	63-67
5	Computer Science and Engineering	04-10-2023	26-02-2024	68-80
6	CSE (Artificial Intelligence and Machine Learning)	15-12-2023	-	81-85
7	Electronics and Communications Engineering	06-10-2023	-	86-90
8	Electrical and Electronics Engineering	25-09-2023	-	91-102
9	Information Science and Engineering	30-09-2023	-	103-106
10	Mechanical Engineering	20-12-2023	-	107-121
11	Basic Science and Humanities	M: 30-08-2023 P: 14-09-2023 C: 15-09-2023	-	122-131
12	Master of Business Administration	-	11-03-2024 & 18-03-2024	132-146



Department of Aeronautical Engineering

GLOBAL ACADEMY OF TECHNOLOGY

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Department of Aeronautical Engineering

Board of Studies

Date: 07th October 2023

at

Conference Hall
Global Academy of Technology



COMPREHENSIVE REPORT

of Proceedings and Curriculum Revision

for Academic Year 2023-24

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



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Ideal Homes Town, Rajarajeshwari Nagar, Bengaluru – 560 098



Below is the list of panel members attended the meeting.

Sl No	Name	Position	Signatures
1	Dr Ranapratap Reddy N	Principal, GAT	
2	Dr H M Rajashekar Swamy	Dean Academics, GAT	
3	Dr. Bino Prince Raja D	Chairman	
4	Dr.N. Balakrishnan	VTU Nominee	
5	Mrs. Ruba C	Industry representative	
6	Mr.Adishesha Sivaramasastry	Industry representative	
7	Mr. George Rajan Koilpillai	Industry representative	
8	Dr Promio Charles	Subject Expert	
9	Mr.Mahendra M A	Member Secretary	
10	Dr.Suresh C	Member	
11	Dr. Tamilselvam N	Member	
12	Mrs. Chandrika M B	Member	

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

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

Mr. Mahendra M A
Member secretary, BoS
Department of Aeronautical Engineering
Global Academy of Technology



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Department of Aeronautical Engineering

Board of Studies meeting on 7th October 2023

Conference Hall, GAT

Agenda

1. Approval of scheme and syllabus for III to VIII as per NEP 2022 scheme.
2. Approval of scheme and syllabus for V to VIII as per NEP 2021 scheme.
3. Discussion about Vision and Mission of the department.
4. Approval of panel of BoE with external examiners.
5. Any other matter with the permission of the chairman.

BoS Panel for the Academic year 2023-2024

Sl No	Name	Designation	Organization	Position
1	Dr. Bino Prince Raja D	Professor & HOD	Aeronautical Department, GAT	Chairman
2	Dr.N. Balakrishnan	Professor	Aerospace Department, Indian Institute of Science	VTU Nominee
3	Mrs. Ruba C	Scientist 'F'	Aeronautical Development Establishment, DRDO	Industry representative
4	Mr.Adishesha Sivaramasastry	Director-Technology & Innovation	Collins Aerospace	Industry representative
5	Mr. George Rajan Koilpillai	Engineering Chief	Honeywell Aerospace	Industry representative
6	Dr Promio Charles	Associate Professor	Aerospace Department, RV college of Engineering, Bengaluru	Subject Expert
7	Mr.Mahendra M A	Assistant Professor	Aeronautical Department, GAT, Bangalore	Member Secretary
8	Dr.Suresh C	Associate Professor	Aeronautical Department, GAT, Bangalore	Member
9	Dr. Tamilselvam N	Associate Professor	Aeronautical Department, GAT, Bangalore	Member
10	Mrs. Chandrika M B	Assistant Professor	Aeronautical Department, GAT, Bangalore	Member

Bino
7-10-2023
Dr. Bino Prince Raja D
Chairman, BoS
Department of Aeronautical Engineering
Global Academy of Technology.

M.A.
Mr. Mahendra M A
Member secretary, BoS
Department of Aeronautical Engineering
Global Academy of Technology

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

Dr. N Balakrishnan

1. For Aerodynamics-1, the Following Textbooks and reference books can be utilized, along with Aerodynamics by J D Anderson.
2. Aerodynamics for Engineers- John J Bertin and Michael L Smith.
3. Module-5 Contents of Aerodynamics -II does not belong in AD-II, can be pushed to Module-5 of AD-I
4. In Aero Propulsion -II – Non-chemical Propulsion, Electric Propulsion can be given more importance.
5. Experiments related to Aerodynamics-II - Supersonic tunnel and CFD Lab component can be introduced.

Action Taken

1. Recommended books are added as Either text book or reference book.
2. Suggestion about giving importance to Electric propulsion will be followed.
3. Experiments related to Aerodynamics II – supersonic tunnel are introduced and will be taught using CFD solver.

Mr. Adishesha

1. Offer Employable courses such as
 - Systems Engineer
 - Product Design Engineer
 - Model based Design engineer
 - Digitalization in Aerospace Industryas Value added course / Ability Enhancement Course / Emerging Trends Course.
2. Introduce Reliable related topics in AMRO.
3. Importance can be given to Guest lectures from Industry and Self learning of cutting-edge technologies for bridging Industry-Institute curriculum gap.

Action Taken

1. Systems Engineering is implemented as value added course.
2. Reliable quality topic is added in AMRO
3. Structural health monitoring is also planned to offer as value added program depending on feasibility.

B. Suresh
7-10-23

4. At least 1 guest lecture is arranged every semester. MoUs are being signed with Industries to welcome their views for bridging the gap between Industry-Institute. Page 5 of 146

Mrs. C. Ruba

1. In drone Technology, Mission planning, Payloads and data link attributes can be included.
2. In Guidance Navigation and Control- Navigation syllabus is missing.
3. Flight testing syllabus is vague, system identification, real time flight testing, Prerequisites such as probability, Testing and certification can be included.
4. Include INS-GPS, Terrain communication, Satellite communication, ATOL system, Laser based landing and RF based landing in Avionics.

Action Taken

1. Mission plan is added Drone Technology subject.
2. The name of the Subject Guidance Navigation and Control is changed to Guidance and Control – topics related to Navigation is added in Module-1.
3. Flight testing syllabus is modified and updated as per the suggestions.
4. The suggested topics like INS-GPS, Terrain communication, Satellite communication, ATOL system, Laser based landing and RF based landing are introduced in module -5 for Avionics.

Mr. George Rajan Koilpillai

1. Include Concepts/ Subjects related to Sustainability, Battery Operated Transport, Cyber security.
2. GPS related topics things to be introduced.
3. Every Course should have current trends and technologies linking to theory and Lab.

Action Taken

1. Sustainability, Battery Operated Transport, Cyber security can be introduced as Value added program (or few subjects are given as open elective so interested students will opt)
2. GPS related topics are added in Avionics subject module-5.
3. Current trends/ Technologies will be mentioned by the respective faculty members during the course delivery for the all dynamic subjects.

Biny
7-10-23

Dr. N Balakrishnan

1. 4th Semester Mathematics Course name be changed from Transforms Calculus and Numerical Techniques to Transformed Numerical Methods or Transforms and Numerical Techniques.
2. Teaching methodology for Mathematics be more of Engineering Applications like Assignments related to MATLAB etc
3. For Aerodynamics-1, the Following Textbooks and reference books can be utilized, along with Aerodynamics by J D Anderson.
4. Aerodynamics for Engineers- John J Bertin and Michael L Smith.
5. Low speed Aerodynamics-Joseph Katz and Allen Plotkin
6. Aerodynamics for Engineering Students - E. L Houghton and P W Carpenter
7. Module-5 Contents of Aerodynamics -II does not belong in AD-II, can be pushed to Module-5 of AD-I.
8. In Aero Propulsion -II – Non-chemical Propulsion, Electric Propulsion can be given more importance.

Action Taken

1. Suggestions related Mathematics are given to basic science BoS for deliberations.
2. The name of the subject Aerodynamics-1 is changed to Low Speed Aerodynamics and Aeodynamics-2 to High speed Aerodynamics.
3. Recommended books are added as Either text book or reference book.
4. Suggestion about giving importance to Electric propulsion will be followed (instruction will be given to particular faculty)

Mr. Adishesha

1. Offer Employable courses such as
 - Systems Engineer
 - Product Design Engineer
 - Model based Design engineer
 - Digitalization in Aerospace Industryas Value added course / Ability Enhancement Course / Emerging Trends Course
2. Introduce Reliable related topics in AMRO
3. Importance can be given to Guest lectures from Industry and Self learning of cutting-edge technologies for bridging Industry-Institute curriculum gap.

B. S. S.
01-10-22
Head of the Department
Dept. of Aeronautical Engineering

Action Taken

1. Systems Engineering is implemented as Ability enhancement course for 4th semester carrying 1 Credit.
2. CAAD lab credits are changed from 3 to 2 to accommodate System Engineer.
3. Reliable quality topic is added in AMRO.
4. At least 1 guest lecture is arranged every semester. MoUs are being signed with Industries to welcome their views for bridging the gap between Industry-Institute.

Mrs. C. Ruba

1. Different types of co-ordinate systems should be included in Avionics.
2. Reduce Control Engineering and Microprocessor Module-3 Content.
4. In Guidance Navigation and Control- Navigation syllabus is missing.
5. Electronic warfare systems, Mechatronics subject can be included as value added course or any elective course.
6. Flight testing syllabus is vague, system identification, real time flight testing, Prerequisites such as probability, Testing and certification can be included.
7. Include RadAlt, INS-GPS, Terrain communication, Satellite communication, ATOL system, Laser based landing and RF based landing in Avionics.

Action Taken

1. Different type of co-ordinate system is included in Avionics.
2. Reduced the content of Module-3 by pushing digital controllers from Module-3 to Module-4 and by removing Number system and Full/Half adder from Module-4.
3. The name of the Subject Guidance Navigation and Control is changed to Guidance and Control.
4. Electronic Warfare system is included in Electronics for Aeronautics in Value added Program.
5. Flight testing syllabus is modified and updated as per the suggestions.
6. The suggested topics like INS-GPS, Terrain communication, Satellite communication, ATOL system, Laser based landing and RF based landing are introduced in module -5 for Avionics.

B. J. J.
9-10-23

Dr. Promio Charles F

Include Introduction about FEM, FDM and FVM in 1st module of Finite Element methods.

Action Taken

Introduction to FEM/FDM/FVM and their Differentiation is included in Module-1 of Finite Element methods.

Brimy

07-10-2023

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

Mr. George Rajan Koilpillai

1. Include Concepts/ Subjects related to Sustainability, Battery Operated Transport, Cyber security.
2. GPS related topics things to be introduced.
3. Every Course should have current trends and technologies linking to theory and Lab.

Action Taken

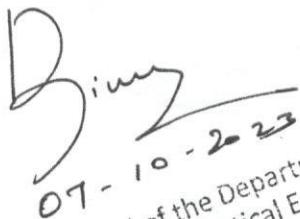
1. GPS related subjects are added in Avionics
2. Current trends/ Technologies will be mentioned by the respective faculty members during the course delivery for the all dynamic subjects

Dr. Promio Charles F

Include Introduction about FEM, FDM and FVM in 1st module of Finite Element methods.

Action Taken

Introduction to FEM/FDM/FVM and their Differentiation is included in Module-1 of Finite Element methods.


07-10-2023

Head of the Department
Dept. of Aeronautical Engineering
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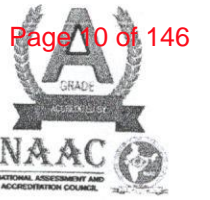


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Date: 22.09.2023

Place: Bangalore

To

The Director,
Aeronautical Development Establishment, DRDO,
New Thippasandra post,
Bangalore-560075.

Subject: Request to nominate Mrs. Ruba C, Sc-F, as a Board of Studies Member (BOS)
-Reg

Dear Sir

Greetings from the Global Academy of Technology!

Global Academy of Technology (GAT), established in the year 2001, is one of the most sought-after engineering and management colleges in Bengaluru, Karnataka. The Department of Aeronautical Engineering was established in the year 2020, affiliated to VTU, Belagavi, Karnataka, and approved by AICTE. The department offers a 4-year undergraduate programme, B.E. in Aeronautical Engineering, with a team of highly qualified, dedicated and motivated young and experienced faculty. The curriculum is framed to impart engineering knowledge in topics such as Aerodynamics, Aircraft structures, Propulsion, Flight dynamics and controls and UAVs. Further provision exists to acquire additional engineering knowledge through electives.

Based on National Education Policy (NEP) and industry requirements the curriculum has to be revised frequently with the help of expert members from industry and academia. For the current academic year, we would like to nominate **Mrs. Ruba C**, Scientist-F, as a member of our Board of Studies in the Department of Aeronautical Engineering. Her exemplary qualifications and experience in UAV would be helpful in framing the curriculum par with industry requirements.

I kindly request you to do the needful to nominate **Mrs. Ruba C**, Scientist- F as a Board of Studies member. Her presence on the board will strengthen our academic framework, and inspire, and guide our faculty and students towards excellence.

Thank you for your time and consideration, looking forward to your positive response.

Sincerely,

Bino
22-09-2023

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

Dr. Bino Prince Raja D
Professor & HOD
Department of Aeronautical Engineering
Global Academy of Technology
RR Nagar, Bangalore
Mail: binoprince@gat.ac.in & Phone: 9715808525

Rajarajeswari Nagar, Bengaluru - 560 098, Karnataka. INDIA

Phone +91 80 28603158, Telefax: +91 80 28603157, e-mail : info@gat.ac.in admissions@gat.ac.in, Website:www.gat.ac.in

Re: Seeking approval for the Emerging Technology Course (ETC)- reg

SK Maharana <skmaha123@gmail.com>

Tue 2/7/2023 1:37 PM

To: Head of Department, Aeronautical Engineering <hodae@gat.ac.in>

Cc: nbalak@iisc.ac.in <nbalak@iisc.ac.in>; AEROSPACE ENGINEERING RVCE

<Hod.ae@rvce.edu.in>; Mahendra M A <mahendra.ma@gat.ac.in>; A Arvind Raj <arvindraj@gat.ac.in>

Dear Dr. Bino,

I strongly recommend the syllabus of the course "Introduction to Drones".

Dr SK Maharana
BTech(Hons), MTech(IIT, Kharagpur), PhD(IIT, Kharagpur)
Professor, Head & Dean
Dept. of Aeronautical Engineering
Acharya Institute of Technology
Bangalore-560107

On Tue, Feb 7, 2023 at 1:27 PM Head of Department, Aeronautical Engineering <hodae@gat.ac.in> wrote:

Dear Sir,

I understand that you are expressing your professional opinion that the "Introduction to Drones" course would not be appropriate for first-year Engineering students.

Your reasons for this stance are valid, as the technical vocabulary and concepts involved in drone technology may be challenging for students at their current level. Additionally, it is important to ensure that students have a solid foundation in the subject matter before diving into more advanced coursework.

However, I would like to add that it is always important to consider the current educational needs and goals of students and to adjust course offerings accordingly also there may be benefits to offering this course at an earlier semester level.

The field of drone technology is rapidly evolving and increasingly relevant in many industries, including aeronautical. By introducing students to this subject early on in their education, they can gain a deeper understanding and appreciation for its potential applications and significance in their field.

Additionally, by challenging students with a more advanced course at an early stage, they will have the opportunity to develop critical thinking and problem-solving skills that will be valuable to them throughout their academic and professional careers.

Of course, it is important to balance the level of difficulty with the current educational needs and goals of the students. But, I believe that the benefits of offering an "Introduction to Drones" course early on in a student's education can outweigh the challenges posed by its content.

Hence, I request you to accept and approve the course of Introduction to Drones for the First year second semester Aeronautical Engineering students

Please do the needful

Thanks & Regards,

Dr. Bino Prince Raja. D
HEAD
Department of Aeronautical Engineering

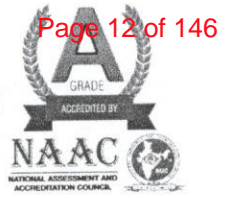


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Date: 05.10.2023

To

Dr Promio Charles

Associate Professor

Aerospace Department,

RV college of Engineering,

Bengaluru, Karnataka

Dear Sir,

Sub: Board of Studies Meeting - Department of Aeronautical Engineering, GAT.

The BOS meeting of Aeronautical Engineering Department, is scheduled on 07th October 2023 (Saturday) at 09.00 AM at Global Academy of Technology. You are kindly requested to make it convenient to attend the meeting as a Subject Expert for BOS of Aeronautical Engineering Department, Global Academy of Technology.

You will be paid TA/DA as per GAT norms.

Thanking You

Yours Faithfully
Head of the Department

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

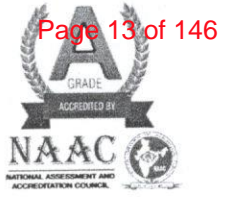


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Date: 05.10.2023

To

Mr. Adishesha Sivaramasastry
Director- Technology & Innovation
Collins Aerospace,
Bengaluru, Karnataka

Dear Sir,

Sub: Board of Studies Meeting - Department of Aeronautical Engineering, GAT.

The BOS meeting of Aeronautical Engineering Department, is scheduled on 07th October 2023 (Saturday) at 09.00 AM at Global Academy of Technology. You are kindly requested to make it convenient to attend the meeting as an Industry representative for BOS of Aeronautical Engineering Department, Global Academy of Technology.

You will be paid TA/DA as per GAT norms.

Thanking You

Yours Faithfully
Head of the Department
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Global Academy of Technology
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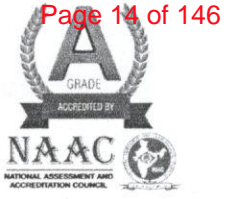


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Date: 05.10.2023

To
Mr. George Rajan Koilpillai
Engineering Chief
Honeywell Aerospace
Bengaluru, Karnataka

Dear Sir,

Sub: Board of Studies Meeting - Department of Aeronautical Engineering, GAT.

The BOS meeting of Aeronautical Engineering Department, is scheduled on 07th October 2023 (Saturday) at 09.00 AM at Global Academy of Technology. You are kindly requested to make it convenient to attend the meeting as an Industry representative for BOS of Aeronautical Engineering Department, Global Academy of Technology.

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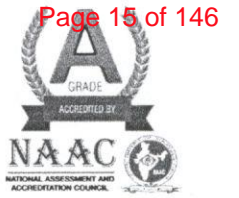


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To

Date: 05.10.2023

Mrs. Ruba C

Scientist 'F'

Aeronautical Development Establishment,

DRDO, Bengaluru, Karnataka

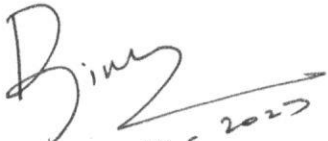
Dear Sir,

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You will be paid TA/DA as per GAT norms.

Thanking You


5-10-2023

Head of the Department
Dept. of Aeronautical Engineering
Global Academy of Technology
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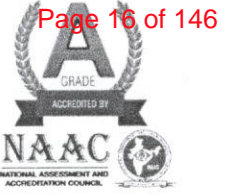


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Date: 05.10.2023

To

Dr.N. Balakrishnan
Professor
Aerospace Department,
Indian Institute of Science
Bengaluru, Karnataka

Dear Sir,

Sub: Board of Studies Meeting - Department of Aeronautical Engineering, GAT.

The BOS meeting of Aeronautical Engineering Department, is scheduled on 07th October 2023 (Saturday) at 09.00 AM at Global Academy of Technology. You are kindly requested to make it convenient to attend the meeting as an VTU Nominee for BOS of Aeronautical Engineering, Department, Global Academy of Technology.

You will be paid TA/DA as per GAT norms.

Thanking You

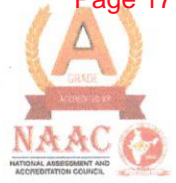
Yours Faithfully
Head of the Department

Dept. of Aeronautical Engineering
Global Academy of Technology
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DEPARTMENT OF AERONAUTICAL ENGINEERING

BOARD OF STUDIES (Academic Year 2021-22)

Sl. No.	Designation	Name	Affiliation	E-mail and Contact details
1	Chairman, BOS	Dr. Prashanth T	Professor, Department of Mechanical Engineering, Global Academy of Technology, Bangalore-98	prashanth.t@gat.ac.in 9886029956
2	VTU Nominee	Dr. Maharana	Head of the Department Department of Aeronautical Engineering Acharya Institute of Technology, Bangalore	skmaha123@gmail.com 9900094967
3	Subject Expert – I	Dr. V L Jagannath Guptha	Assistant Professor, Department of Aerospace Engineering, R V College of Engineering, Bangalore	jagannathagvl@rvce.edu.in 9243447122
4	Subject Expert – I	Dr. Krishna Rao	Head of the Department, Department of Mechanical Engineering, Global Academy of Technology, Bangalore-98	tkrishnarao@gat.ac.in 9743711190

Signature of HOD

Signature of Principal

Rajarajeshwari Nagar, Bengaluru - 560 098. INDIA

Phone : +91 80 28603158, Telefax : +91 80 28603157, E-mail : info@gat.ac.in, admissions@gat.ac.in, Website : www.gat.ac.in

Invitation to attend the BOS meeting at Global Academy of Technology, Bangalore

Dr. Prashanth T <prashanth.t@gat.ac.in>

Tue 11/23/2021 2:46 PM

To: skmaha123@gmail.com <skmaha123@gmail.com>

📎 1 attachments (2 MB)

Draft_III and IV Semester_Aeronautical Engineering.pdf;

Dear Sir

Greetings of the day from Global Academy of Technology, Bangalore

Global Academy achieved the UGC autonomous status under VTU during the academic year 2020-21 for a period of 10 years. This year also marked the beginning of a new Undergraduate branch of Engineering titled "Aeronautical Engineering".

The students admitted during the academic year 2020-21 for the Aeronautical Engineering program are currently in the III semester. In this regard the syllabus and scheme for the III and IV semester needs to be visited and approved by the Honorable members of the Board of Studies.

A meeting is planned to be held on 26th November 2021 (Friday) at 2 pm at the Conference hall of the institute. Request you to kindly send in your consent as a reply to this mail.

Also attached to the mail is the draft copy of the Scheme and syllabus pertaining to III and IV Semester of Aeronautical Engineering.

Looking forward to take this association ahead.

Regards

Dr. Prashanth

Re: Invitation to attend the BOS meeting of Aeronautical Engineering_Global Academy of Technology

SK Maharana <skmaha123@gmail.com>

Tue 11/23/2021 4:44 PM

To: Dr. Prashanth T <prashanth.t@gat.ac.in>

Cc: Principal GAT <principal@gat.ac.in>

Dear Dr Prashanth ,

Thank you so much for your invitation.

I shall be very glad to attend the scheduled Board of Studies meeting of Aeronautical Engineering, Global Academy of Technology.

Regards,

Dr SK Maharana

BTech(Hons), MTech(IIT, Kharagpur), PhD(IIT, Kharagpur)

Professor, Head & Dean

Dept.of Aeronautical Engineering

Acharya Institute of Technology

Bangalore-560107

On Tue, Nov 23, 2021 at 2:48 PM Dr. Prashanth T <prashanth.t@gat.ac.in> wrote:

Dear Sir

Greetings of the day from Global Academy of Technology, Bangalore

Global Academy achieved the UGC autonomous status under VTU during the academic year 2020-21 for a period of 10 years. This year also marked the beginning of a new Undergraduate branch of Engineering titled "Aeronautical Engineering".

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Dr. Prashanth

Invitation to attend the BOS meeting of Aeronautical Engineering_Global Academy of Technology

Dr. Prashanth T <prashanth.t@gat.ac.in>

Tue 11/23/2021 2:49 PM

To: jagannathagvl@rvce.edu.in <jagannathagvl@rvce.edu.in>

📎 1 attachments (2 MB)

Draft_III and IV Semester_Aeronautical Engineering.pdf;

Dear Sir

Greetings of the day from Global Academy of Technology, Bangalore

Global Academy achieved the UGC autonomous status under VTU during the academic year 2020-21 for a period of 10 years. This year also marked the beginning of a new Undergraduate branch of Engineering titled "Aeronautical Engineering".

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Also attached to the mail is the draft copy of the Scheme and syllabus pertaining to III and IV Semester of Aeronautical Engineering.

Looking forward to take this association ahead.

Regards

Dr. Prashanth

Modified Syllabus of III and IV Semester Aeronautical Engineering

Dr. Prashanth T <prashanth.t@gat.ac.in>

Sat 12/4/2021 1:12 PM

To: SK Maharana <skmaha123@gmail.com>; Dr. T Krishna Rao <tkrishnarao@gat.ac.in>; Jagannatha Guptha V L <jagannathagvl@rvce.edu.in>

Cc: Principal GAT <principal@gat.ac.in>

Dear Sir

Greetings of the day

At the outset, I wish to offer my sincere thanks for all the members for their excellent suggestions in finalizing the syllabus of III and IV semester Aeronautical Engineering for the academic year 2021-22.

All of your suggestions have been incorporated in the syllabus. Please find attached the final scheme and syllabus for your kind perusal.

Thanks in advance and with warm regards

Dr. Prashanth T

Re: Modified Syllabus of III and IV Semester Aeronautical Engineering

Dr. T Krishna Rao <tkrishnarao@gat.ac.in>

Sat 12/4/2021 3:47 PM

To: Dr. Prashanth T <prashanth.t@gat.ac.in>

Thank You sir.

Noted.

Thanks and regards

T Krishna Rao



V: Become one of the leading providers of education in Mechanical Engineering with emphasis on research, development and innovation for the benefit of society

M1: Impart quality technical education in the field of mechanical engineering through excellent teaching-learning process, modern infrastructure and computing tools

M2: Prepare students for successful careers by providing placements and encouraging research, development and innovation through industry-institute interaction

M3: Instil professional ethics and environmental consciousness amongst students through inclusive development programs

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From: Dr. Prashanth T <prashanth.t@gat.ac.in>

Sent: Saturday, December 4, 2021 1:12 PM

To: SK Maharana <skmaha123@gmail.com>; Dr. T Krishna Rao <tkrishnarao@gat.ac.in>; Jagannatha Guptha V L <jagannathagvl@rvce.edu.in>

Cc: Principal GAT <principal@gat.ac.in>

Subject: Modified Syllabus of III and IV Semester Aeronautical Engineering

Dear Sir

Greetings of the day

At the outset, I wish to offer my sincere thanks for all the members for their excellent suggestions in finalizing the syllabus of III and IV semester Aeronautical Engineering for the academic year 2021-22.

All of your suggestions have been incorporated in the syllabus. Please find attached the final scheme and syllabus for your kind perusal.

Thanks in advance and with warm regards

Dr. Prashanth T

Re: Modified Syllabus of III and IV Semester Aeronautical Engineering

SK Maharana <skmaha123@gmail.com>

Sat 12/4/2021 5:01 PM

To: Dr. Prashanth T <prashanth.t@gat.ac.in>

Cc: Dr. T Krishna Rao <tkrishnarao@gat.ac.in>; Jagannatha Guptha V L <jagannathagvl@rvce.edu.in>; Principal GAT <principal@gat.ac.in>

Dear Dr Prashanth,

Thank you so much for sharing the modified copy of the syllabus.

Regards,
SK Maharana

On Sat, Dec 4, 2021 at 1:12 PM Dr. Prashanth T <prashanth.t@gat.ac.in> wrote:

Dear Sir

Greetings of the day

At the outset, I wish to offer my sincere thanks for all the members for their excellent suggestions in finalizing the syllabus of III and IV semester Aeronautical Engineering for the academic year 2021-22.

All of your suggestions have been incorporated in the syllabus. Please find attached the final scheme and syllabus for your kind perusal.

Thanks in advance and with warm regards

Dr. Prashanth T

Revised syllabus of Solid Mechanics - III ANE

Dr. T Krishna Rao <tkrishnarao@gat.ac.in>

Wed 12/1/2021 3:56 PM

To: Dr. Prashanth T <prashanth.t@gat.ac.in>

Dear Sir,

Full syllabus after changing 4th Module from Deflection to Cylinders

T Krishna Rao



V: Become one of the leading providers of education in Mechanical Engineering with emphasis on research, development and innovation for the benefit of society

M1: Impart quality technical education in the field of mechanical engineering through excellent teaching-learning process, modern infrastructure and computing tools

M2: Prepare students for successful careers by providing placements and encouraging research, development and innovation through industry-institute interaction

M3: Instil professional ethics and environmental consciousness amongst students through inclusive development programs

Disclaimer - GAT does not accept any liability for virus infected emails. Please consider the environment before printing this email.

Re: Modified Syllabus of III and IV Semester Aeronautical Engineering

Jagannatha Guptha V L <jagannathagvl@rvce.edu.in>

Sat 12/4/2021 10:20 PM

To: Dr. Prashanth T <prashanth.t@gat.ac.in>

Cc: SK Maharana <skmaha123@gmail.com>; Dr. T Krishna Rao <tkrishnarao@gat.ac.in>; Principal GAT <principal@gat.ac.in>

Dear Sir,
Greetings....

Congratulations for excellent work in preparing the syllabus. And I hereby thank you for the opportunity given to be part of BoS and sharing the update.

All the best.

Regards
VLJ / ME / RVCE
Mobile 9243447122

On Sat, 4 Dec 2021, 13:12 Dr. Prashanth T, <prashanth.t@gat.ac.in> wrote:

Dear Sir

Greetings of the day

At the outset, I wish to offer my sincere thanks for all the members for their excellent suggestions in finalizing the syllabus of III and IV semester Aeronautical Engineering for the academic year 2021-22.

All of your suggestions have been incorporated in the syllabus. Please find attached the final scheme and syllabus for your kind perusal.

Thanks in advance and with warm regards

Dr. Prashanth T

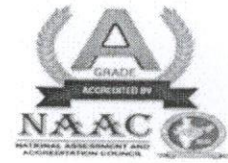


GLOBAL ACADEMY OF TECHNOLOGY

RajarajeshwariNagar, Bengaluru – 560 098

DEPARTMENT OF AERONAUTICAL ENGINEERING

BOARD OF STUDIES (BOS) MEMBERS



Name	Designation	Organization	Email ID	Mobile Number	Position
Dr.Bino Prince Raja D	Assoc.Professor & Head	Aeronautical Department, GAT	hodae@gat.ac.in	9715808525	Chairman
Dr. S. K. Maharana	Professor and Head, AED	Acharya Institute of Technology, Bangalore	skmaha123@gmail.com	9900094967	VTU Nominee
Dr. P. K. Dash	Professor and HOD, AED	NMIT, Bangalore	pramodkumar.dash@nmit.ac	6362621490	External Subject Expert
Dr. Hareesha NG	Professor and HOD, AED	Dayanand Sagar College of Eng	hod-aero@dayanandsagar.edu	9880774363	External Subject Expert
Dr. John Baruch	Professor, AED	MVJ College of Engineering	johnbaruch@mvjce.edu.in	9443427309	External Subject Expert
Dr.PV Venkitakrishnan	Former Director & Distinguished scientist (Retd)	ISRO, Bangalore	venkitakrishnanpv@gmail.com	94969400045	Industry representative
Dr. Kishore Shetty	Engineering Lead	Boeing Research and Technology, Bangalore	Kishora_shetty@boeing.com	9886676333	Industry representative
Dr.Diwahar	Senior Manager	HAL, Bangalore	diwahart@gmail.com	9844539259	Industry representative
Dr. Krishna Rao	Professor & Head	GAT, Bangalore	tkrishnarao@gat.ac.in	9743711190	MEMBER – Mentee Institution



Department of Artificial Intelligence and Data Science



Global Academy of Technology

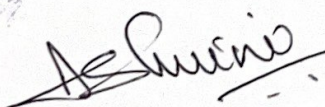
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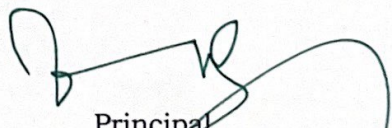
Department of Artificial Intelligence and Data Science

BoS members (2023-24)

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)
Head of the Department
Dept. of Artificial Intelligence & Data Sci
Global Academy of Technolo
Bangaluru - 560 098


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


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

Rajarajeswari Nagar, Bengaluru - 560 098, Karnataka. INDIA

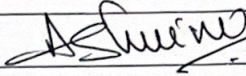
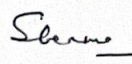
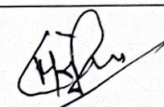

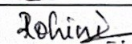
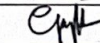
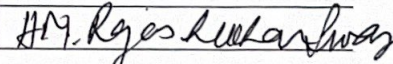
Phone +91 80 28603158, Telefax: +91 80 28603157, e-mail : info@gat.ac.in admissions@gat.ac.in, Website:www.gat.ac.in

GLOBAL ACADEMY OF TECHNOLOGY

Ideal Homes Township, R R Nagar, Bengaluru-98

Department of Artificial Intelligence & Data Science

Attendance report for the Board of Studies Meeting held on 30th September 2023 at 4:00 p.m. in the Department of Artificial Intelligence & Data Science, Global Academy of Technology, Bengaluru.

1	Dr. Ashwini Kodipalli	Chairman	 30/9/23
2	Dr. Shekhar Verma	Subject Expert 1	
3	Dr. Sonali Agarwal	Subject Expert 2	Attended online
4	Dr. Muneendra Ojha	Subject Expert 3	
5	Dr. Susheela V Devi	VTU Nominee	Attended online
6	Mr. Raja Krishna Murthy	Industry Representation	Attended online
7	Ms. S Preethi		
8	Mr. Yathish	A distinguished Alumnus	Attended online
9	Prof. Trupthi Rao	Member convenor	
10	Prof. Rohini B R	Member	
11	Prof. Vijay Narasimhamurthy	Member	
12	PRINCIPAL	Invited Member	
13	DEAN	Invited Member	

**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 30th September 2023 at 11:00 am in the Online Mode using Microsoft Teams.

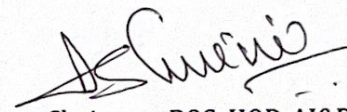
The following members attended the meeting:

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 started in hybrid mode with a welcome address and introduction of BOS members by Dr. Ashwini Kodipalli, Head, Dept. of AI &DS.
- The agenda of the meeting was presented by Dr. Ashwini Kodipalli, Professor & HOD.
- Corrective actions taken for the 2020 and 2021 scheme and syllabus incorporated in the 2021 and 2022 scheme respectively:
 - As suggested by the stakeholders and BOS members in the previous BoS meeting conducted on 16th September 2022, Object Oriented Modelling and Designing, Research Methodology, Soft Computing Techniques and Image Processing, were included in the curriculum of the 2021 and 2022 batches respectively.
 - Java was included as an ability enhancement course for the 2022 batch.
 - Syllabus modification related to Quantum computing suggested including the practical aspects of using Qsim.
 - Infrastructure requirements for Deep Learning, Tableau, Machine Learning labs were met by adding high-end systems in the department laboratory.

- The lists of courses revised from the previous 2020 and 2021 scheme were presented and approved.
- The Syllabus of 2022 scheme from III – VIII Semester was discussed and approved.
- The first year syllabus of the course Introduction to AI offered by the department under the 2023 scheme was discussed and approved.
- A list of courses, focussing on Employability, Entrepreneurship, and Skill development was incorporated for the 2022 scheme.
- The members of the BOS and Stakeholders have suggested minor modifications and the suggestions are as follows for batch 2021 and 2022:
 - 1) Programming subjects such as Advanced Java to be included as a core subject for higher semester.
 - 2) Topics such as economics can be included in the subject Management and Entrepreneurship and given as a Professional course rather than 1 credit course.
 - 3) Cryptography subject to be included.
 - 4) Value Added Program to be conducted on trending technologies.
- 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.



Chairman-BOS, HOD-AI&DS, GAT

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



Department of Artificial Intelligence and Machine Learning



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 Tel: +91 80 28603158 Email: hodaiml@gat.ac.in Web: www.gat.ac.in
Department of Artificial Intelligence & Machine Learning



BOARD OF STUDIES- 2023

Date: 3rd October 2023

Designation	Name
Chairman	DR. PREETI SATISH Professor and HoD
Academic Experts	
Subject Expert 1 (VTU Nominee)	Dr. Sudarshan Iyengar Professor & HoD, Department of CSE, IIT Ropar
Subject Expert 2	Dr. M Dakshayini Professor, Department of ISE, BMCE, Blore
Industry Experts	
Industry Expert 1	Mr. Rithesh Sreenivasan Educational Youtuber Ex-Senior Scientist, Philips
Industry Expert 2	Sachin Shivkhalimath Senior manager, Data Scientist, Genpact
Member Convenor	Prof. Lakshmikantha G C
Member	Dr Roopa B S
Member	Prof. Udayprasad P K
Member	Prof. Shanuja
Invited Member	
Invited Member	PRINCIPAL
Invited Member	DEAN <i>H.M. Rajesh</i>

[Signature]
HOD

[Signature]
Signature of Dean

[Signature]
Signature of Principal



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Department of Artificial Intelligence & Machine Learning

Minutes of the Meeting- Board of Studies - 2023

Meeting Title: Board of Studies	Date & Time : 04/10/2023, 11AM to 1 PM	Venue: Virtual & MS Teams
Meeting Intent : To fine tune the syllabus in order to meet the industry requirements and bridge the skill gap.		
Meeting facilitator: Dr. Preeti Satish, Head, AI&ML, GAT		
Meeting Attendees		
Academic Experts	Internal Members	Industry Experts
<ol style="list-style-type: none"> 1. Dr. Sudarshan Iyengar, Prof & Head, CSE, IIT Ropar. 2. Dr. M Dakshayini, Prof, ISE, BMSCE 	<ol style="list-style-type: none"> 3. Dr. Preeti Satish, Head, AI&ML, GAT 4. Dr. Roopa B S, Prof, AI&ML, GAT 5. Prof. Lakshmikantha G C, Asst.Prof, AI&ML, GAT 6. Prof. C Christlin Shanuja, Asst.Prof, AI&ML, GAT 7. Prof. UdhayaPrasad, Asst.Prof, AI&ML, GAT 	<ol style="list-style-type: none"> 8. Mr.Ritesh Sreenivasan, Former Scientist, Philips. 9. Mr. Sachin Shivkhalimath, Data Scientist, Denpact

Meeting Proceedings

At the outset HOD of AI&ML dept, Dr. Preeti Satish, introduced and welcomed all the members of the board. Dr. Preeti Satish briefed about the highlights of the syllabus which continued on the detailed discussion. The following are the comments received.

Suggestions by Dr. Sudarshan Iyengar

- • Inclusion of Probability, Linear Algebra and optimization to be included.
- In regards with Business Intelligence, suggested to include recent tools into the syllabus.
- Data visualization and Data Analytics can be added instead of Business Intelligence.
- • Discrete Mathematics 1 & 2 can be merged.
- • Suggested to add a new subject for Mathematics for Machine Learning.
- Deep learning syllabus can include LLM & RNN concepts.
- For Big Data, a new reference book is suggested "Mining Massive Dataset".

- In Image analytics, asked to include OpenCV in the syllabus.
- A book entitled "CV with modern techniques" by Richard Szeliski is suggested for Computer Vision.
- Language & Speech processing subject is too dense and it can be divided into 2 subjects and NLP, RNN and Speech Recognition concepts has to be included.
- For Data Structure, suggested to include case studies in each module.
- Implement Agile based project for students also suggested.
- In Introduction to Innovative Projects, suggested to include new module for productionable code using python.
- A book entitled, " Introduction to Algorithm" by Carls Berg is suggested for the subject Design and Analysis of Algorithm.

Suggestions by Dr. M Dakshayini

- In regards with Deep learning, advised to revise the syllabus and module 4 & 5 can be changed into advanced deep learning concepts.
- Language & Speech processing subject is too dense and it can be divided into 2 subjects and NLP, RNN and Speech Recognition concepts has to be included.
- Suggested to focus more on implementation for the subjects like DBMS, Software Engineering, etc.
- Advised to refer the Bloom's Taxonomy while framing the Cos.

Suggestions by Mr.Ritesh Sreenivasan:

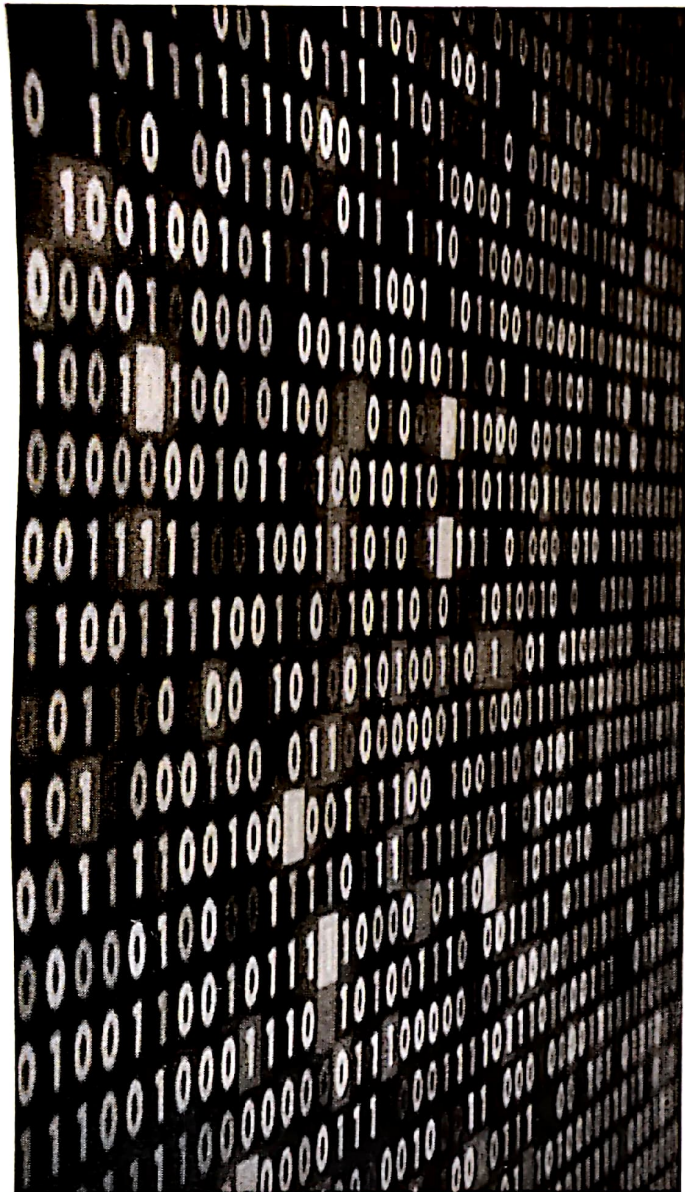
- Implementations are important for the subject DBMS and suggested to add NoSQL & MongoDB as an elective subject.
- Machine Learning Essentials can be divided into 3 subjects as ML Foundations, ML Practice and ML Techniques.
- Basics of Statistics can be included in mathematics for ML.
- A book entitled, " Learning for Data Science" by Mastafa is suggested for Data Science.
- Courses mapping to Employability, Entrepreneurship and skill development was discussed.

Suggestions by Mr. Sachin Shivkhalimath

- Suggested to convert IOT as lab course since more implementation is required.
- Signals & Systems subject has to be included in 3rd sem.
- Classes should be converted into Hands-ON for Software Engineering.
- Assignments has to be given based on END-END product (like simple ERP developing) to understand the requirements of the end users in Software Engineering.
- Suggested to divide the subject Machine Learning Essentials, since it is core topics for AIML students.
- It was suggested to include the latest books by renowned authors and publishers as a part of text/reference books.



HOD,
Dept. of AI & ML



Global Academy of Technology
ARTIFICIAL INTELLIGENCE & MACHINE LEARNING
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Accredited by NAAC with A grade)

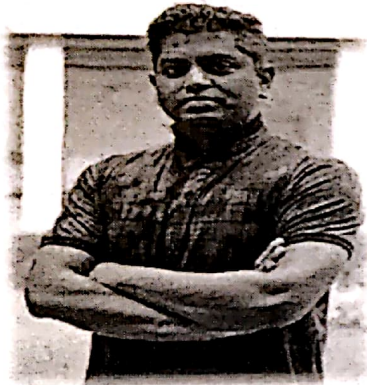
Board of Studies Meeting- 2023

Dr. Preeti Satish
Professor & Head,
AI &ML,GAT

Dr. N Ranapratap Reddy
Principal,
GAT

Panel Members.....

Academic Experts



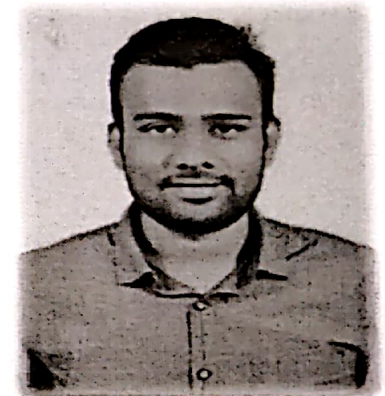
Dr. Sudarshan Iyengar
Professor & HoD,
Department of CSE, IIT Ropar
VTU Nominee



Dr. M Dakshayini
Professor, Department of
ISE, BMCE, Blore



Mr. Rithesh Sreenivasan
Educational Youtuber
Ex-Senior Scientist,
Philips

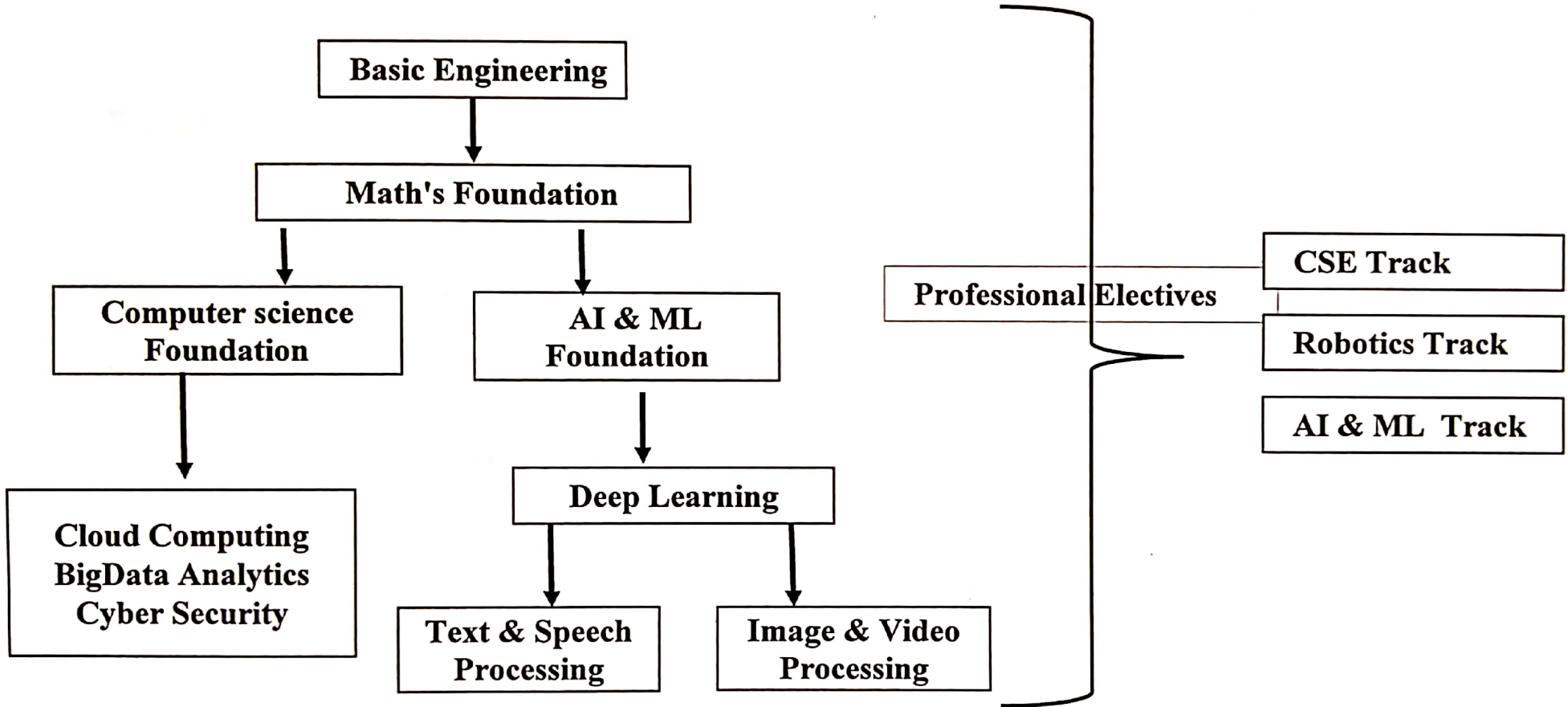


Sachin Shivkhalimath
Senior manager, Data
Scientist, Genpact

Agenda

- Ratification of 2021 scheme (5th to 8th semester)
- Ratification of 2022, 3rd to 8th scheme and syllabus

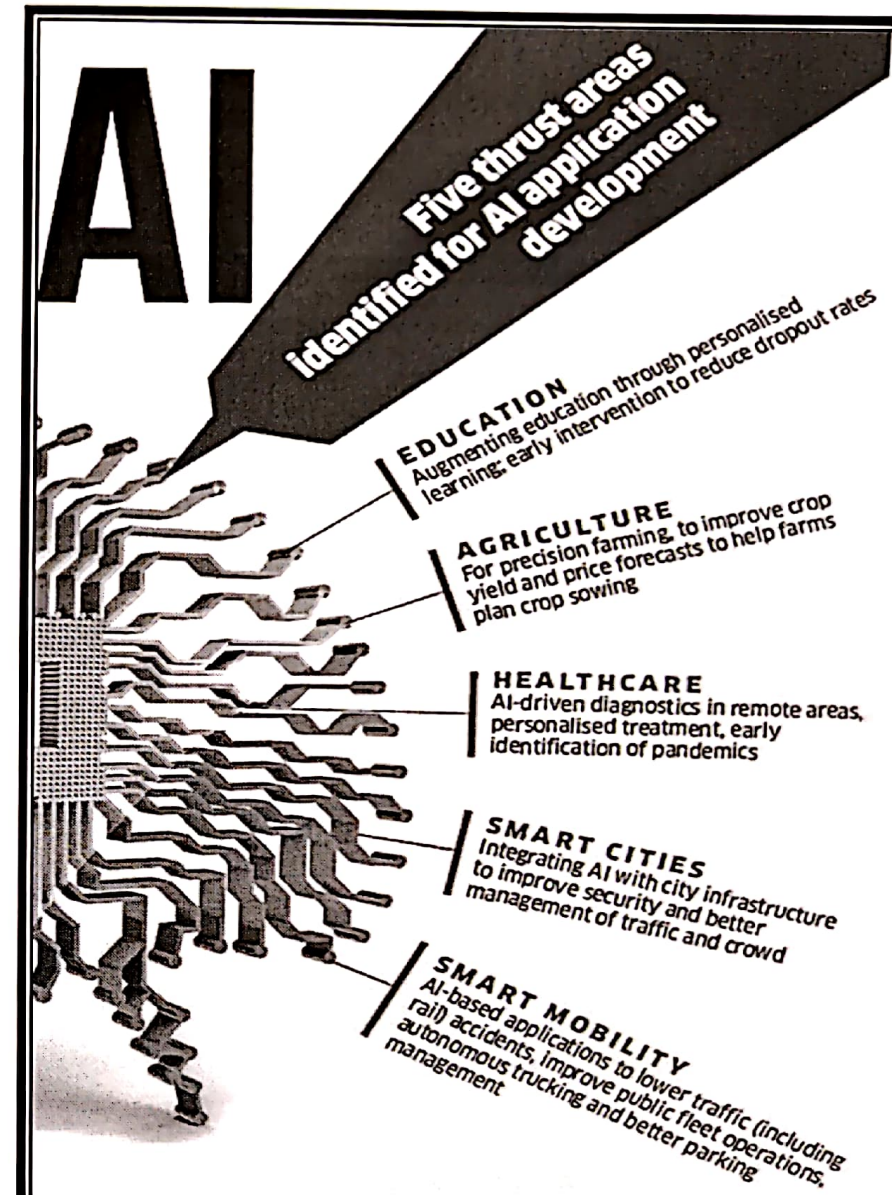
Learning Path.....



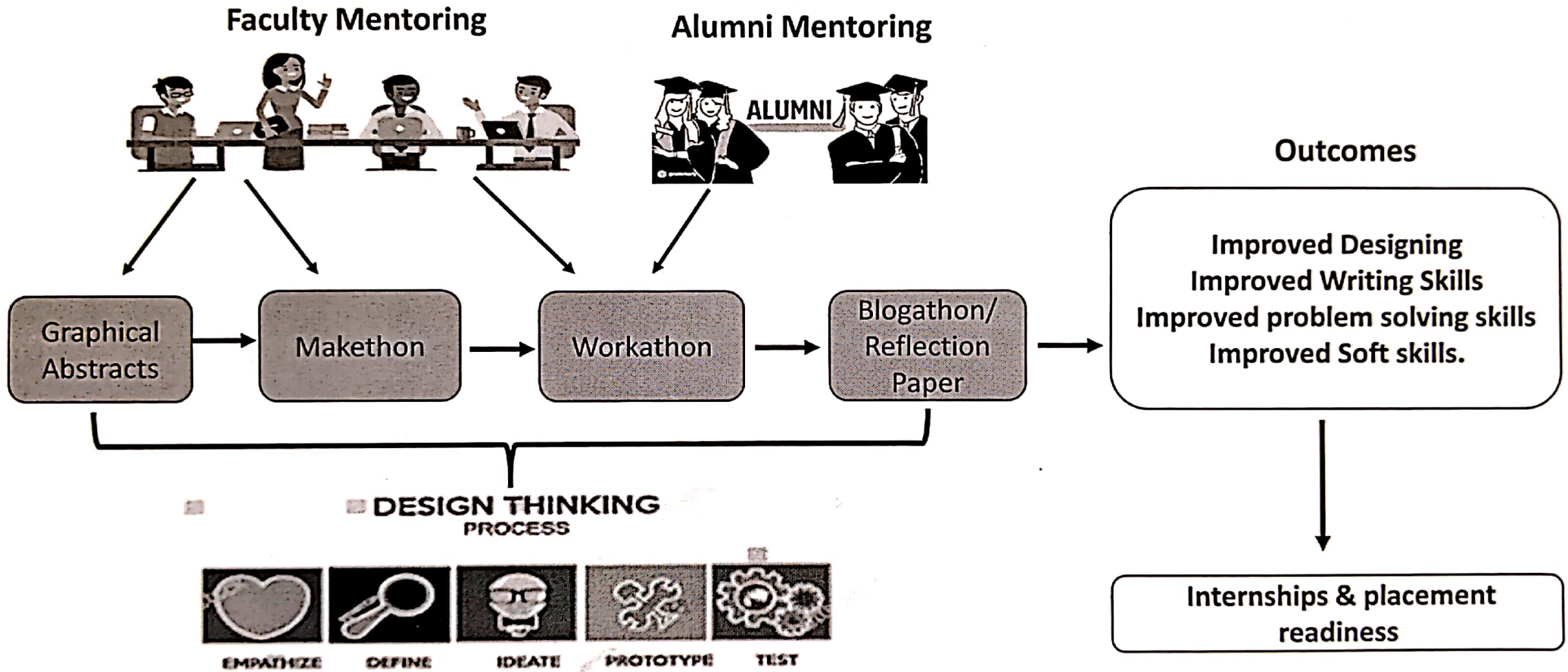
Ability Enhancement Courses

As per Niti Ayog India's leadership in AI shall be in the following domains

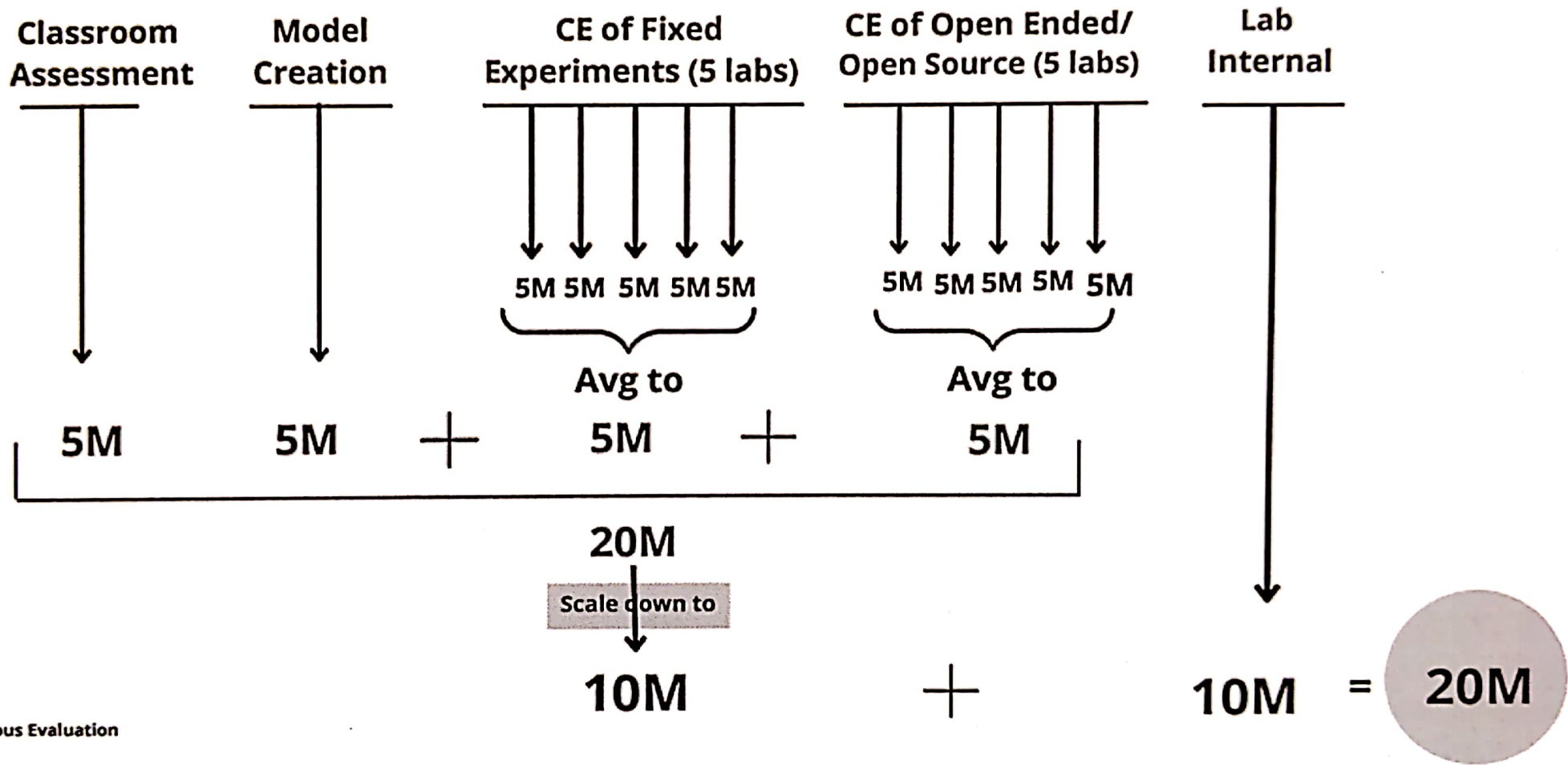
- AI in Education
- AI in healthcare
- AI in digital cities
- AI in Agriculture



TLP Additives- Enhancing Curriculum

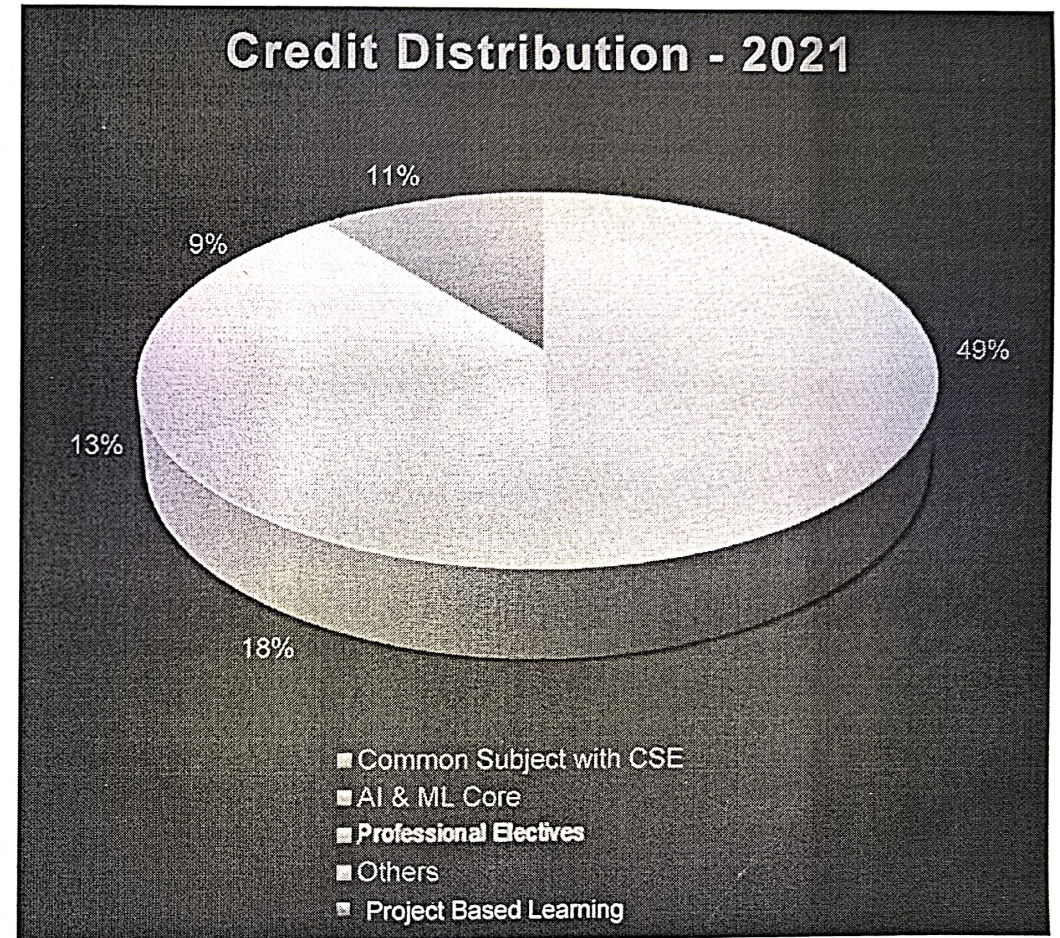
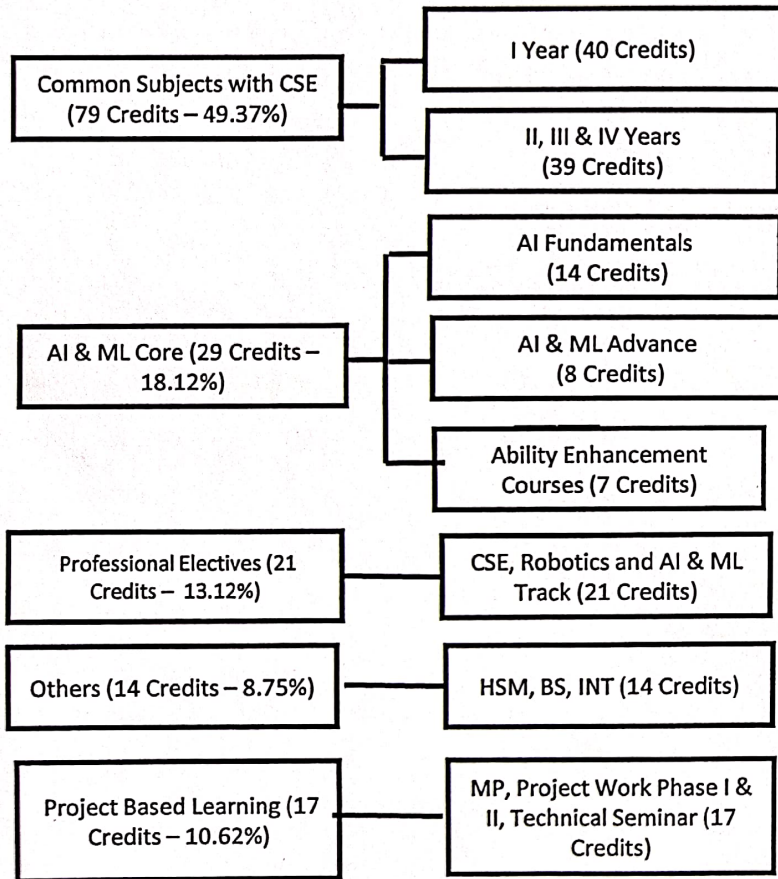


Global Academy of technology
Artificial Intelligence & Machine Learning
Continuous Internal Evaluation -Data Structures Lab



*CE-Continuous Evaluation

Scheme Analysis.....



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	Design & Analysis of Algorithms (IPC)	Big data & Cloud Computing (IPC)	Image & Video Analytics (IPC)	Language & Speech Processing (IPC)	(PEC 5)
	Web Application Frameworks	Database Management Systems (IPC)	Deep Learning Principles & Practices (IPC)	Internet of things (IPC)	Quantum Computing (IPC)	Project Phase 2
	Operating System	Machine Learning Essentials (PC)	(PEC 1)	(PEC 2)	(PEC 3)	Technical Seminar
	Software Engineering	Core Java (PC)	Research Methodology (AEC III)	(OE 1)	(OE 2)	Internship
	Sanskritika / Balake Kannada / CIPH	Sanskritika / 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
				OPEN ELECTIVES - I	OPEN ELECTIVES - II	PROFESSIONAL ELECTIVE COURSE - V
				Introduction to Data Structure	Introduction to Python Libraries	Argument Reality and Virtual Reality
						Predictive Analysis in IoT
						Intelligent Multiagent and Expert System

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

ZUZZ Scheme -AICEML

	III SEMESTER	IV SEMESTER	V SEMESTER	VI SEMESTER	VII SEMESTER	VIII SEMESTER
	Discrete Mathematical Structures	Discrete Mathematical Structures 2	Engineering Economics	Cyber Security (PC)	Business Intelligence (PC)	Reinforcement and Ensemble Learning (PC)
	Data Structures with Applications	Design & Analysis of Algorithms (IPC)	Big data & Cloud Computing (IPC)	Image & Video Analytics (IPC)	Language & Speech Processing (IPC)	(PEC 4)
	Software Engineering	Database Management Systems (IPC)	Deep Learning Principles & Practices (IPC)	Internet of things (IPC)	Quantum Computing (IPC)	(PEC 5)
	Computer Organization and Architecture	Machine Learning Essentials (PC)	Computer Networks	(PEC 2)	(PEC 3)	Project Phase 2
	Operating System	Linear Algebra for Machine Learning	(PEC1)	(OE 1)	(OE 2)	Technical Seminar
	Web Application Frameworks (AEC I)	Java Programming	Robotic Process Automation	Environmental Science/UHV	Project Phase 1	Internship
	Introduction to Innovative Projects (AEC II)	AI tools, Frameworks and Its application I (AEC III)	AI tools, Frameworks and Its application II (AEC IV)	Mini Project		
			Environmental Science/UHV			
			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
				OPEN ELECTIVES - I		PROFESSIONAL ELECTIVE COURSE -V
	Z			Introduction to Data Structure		Argument Reality and Virtual Reality
						Predictive Analysis in IoT
						Intelligent Multiagent and Expert System
					OPEN ELECTIVES - II	
					Introduction to Python Libraries	

: CS Foundation Courses
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 : Projects and Seminars
 : Others



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Department of Artificial Intelligence & Machine Learning

BOS MEETING- ACTION TAKEN

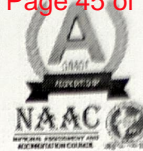
SI NO	COMMENTS GIVEN	NAME OF THE EXPERT	ACTION TAKEN
1	<ul style="list-style-type: none"> Inclusion of Probability, Linear Algebra and optimization to be included. Discrete Mathematics 1 & 2 can be merged. Suggested to add a new subject for Mathematics for Machine Learning. 	Dr. Sudarshan Iyengar	<ul style="list-style-type: none"> Probability and Linear Algebra has been included in 4th semester. Discrete Mathematics 1 & 2 is combined and included in 3rd semester.
2	<ul style="list-style-type: none"> Deep learning syllabus can include LLM & RNN concepts. In regards with Deep learning, advised to revise the syllabus and module 4 & 5 can be changed into advanced deep learning concepts. 	Dr. Sudarshan Iyengar & Dr. M Dakshayini	<ul style="list-style-type: none"> Deep Learning syllabus is reframed which include the concepts of LLM and RNN. Advanced concepts has been included in Module 4 & 5
3	<ul style="list-style-type: none"> For Big Data, a new reference book is suggested "Mining Massive Dataset". 	Dr. Sudarshan Iyengar	<ul style="list-style-type: none"> Mining Massive Dataset has been included in the syllabus of Big Data(5th Semester).
4	<ul style="list-style-type: none"> In Image analytics, asked to include OpenCV in the syllabus. A book entitled "CV with modern techniques" by Richard Szeliski is suggested for Computer Vision. 	Dr. Sudarshan Iyengar	<ul style="list-style-type: none"> OpenCV is included in the syllabus of image analytics. The suggested text book is added as reference.
5	<ul style="list-style-type: none"> Language & Speech processing subject is too dense and it can be divided into 2 subjects and NLP, RNN and Speech Recognition concepts has to be included. 	Dr. Sudarshan Iyengar & Dr. M Dakshayini	<ul style="list-style-type: none"> Language & Speech processing syllabus has been reframed and included the concepts of NLP, RNN and Speech recognition.
6	<ul style="list-style-type: none"> In Introduction to Innovative Projects, suggested to include new module for productionable code using python. 	Dr. Sudarshan Iyengar	<ul style="list-style-type: none"> productionable code using python has been included.



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Department of Artificial Intelligence & Machine Learning

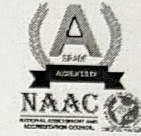
7	<ul style="list-style-type: none">A book entitled, "Introduction to Algorithm" by Carls Berg is suggested for the subject Design and Analysis of Algorithm.	Dr. Sudarshan Iyengar	<ul style="list-style-type: none">The book "Introduction to Algorithm" is added in reference.
	<ul style="list-style-type: none">Suggested to divide the subject Machine Learning Essentials, since it is core topics for AIML students.	Mr.Ritesh Sreenivasan & Mr. Sachin Shivkhalimath	<ul style="list-style-type: none">Machine Learning syllabus is reframed according to the suggestions.
8	<ul style="list-style-type: none">A book entitled, "Learning for Data Science" by Mostafa is suggested for Data Science.It was suggested to include the latest books by renowned authors and publishers as a part of text/reference books.	Mr.Ritesh Sreenivasan	<ul style="list-style-type: none">Learning for Data Science book has been added as reference.Latest books has been added for the core subjects.
9	<ul style="list-style-type: none">Suggested to convert IOT as lab course since more implementation is required.Assignments has to be given based on END-END product (like simple ERP developing) to understand the requirements of the end users in Software Engineering.	Mr. Sachin Shivkhalimath	<ul style="list-style-type: none">IOT is converted into Lab course.Devops concepts and Agile Methodologies will be given as Assignments.


29/11/2023
HOD, AI & ML



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Department of Artificial Intelligence and Machine Learning

Courses having focus on employability/ entrepreneurship/ skill development offered by the institution

BE 2021 SCHEME						
Sl. No	Name of the course	Course code	Employability	Entrepreneurship	Skill Development	Year of Introduction
1	C PROGRAMMING	21CSE13	YES		YES	2021
2	PROGRAMMING IN PYTHON	21CSE23	YES		YES	2021
3	DISCRETE MATHEMATICS-I	21MAT31A	YES			2021
4	DATA STRUCTURES WITH APPLICATION	21AML32	YES			2021
5	WEB APPLICATION FRAMEWORKS	21AML33	YES		YES	2021
6	OPERATING SYSTEM	21AML34	YES			2021
7	SOFTWARE ENGINEERING	21AML35	YES	YES		2021
8	DISCRETE MATHEMATICS-II	21MAT41A	YES			2021
9	DESIGN & ANALYSIS OF ALGORITHMS	21AML42	YES		YES	2021
10	DATA BASE MANAGEMENT SYSTEMS	21AML43	YES		YES	2021

11	CORE JAVA	21AML45	YES		YES	2021
12	AI TOOLS, FRAMEWORKS & ITS APPLICATION I	22AML46			YES	2021
13	COMPUTER NETWORKS	21AML51	YES			2021
14	BIG DATA & CLOUD COMPUTING	21AML52	YES		YES	2021
15	DEEP LEARNING PRINCIPLES & PRACTICES	21AML53	YES		YES	2021
16	COMPUTER ORGANIZATION & ARCHITECTURE	21AML541	YES			2021
17	MICROCONTROLLER AND EMBEDDED SYSTEM	21AML542	YES		YES	2021
18	FUNDAMENTALS OF DATA SCIENCE	21AML543	YES		YES	2021
19	RESEARCH METHODOLOGY	21AML55		YES		2021
20	AI TOOLS, FRAMEWORKS & ITS APPLICATION II	21AML56	YES		YES	2021
21	CYBER SECURITY	21AML61	YES		YES	2021
22	IMAGE & VIDEO ANALYTICS	21AML62	YES		YES	2021
23	INTERNET OF THINGS	21AML63	YES			2021
24	PARALLEL AND DISTRIBUTED COMPUTING	21AML641	YES		YES	2021
25	INTELLIGENT EMBEDDED SYSTEM	21AML642	YES		YES	2021
26	AI IN BLOCKCHAIN	21AML643	YES		YES	2021

27	AI TOOLS, FRAMEWORKS & ITS APPLICATION III	21AML66			YES	2021
28	BUSINESS INTELLIGENCE	21AML71		YES	YES	2021
29	LANGUAGE & SPEECH PROCESSING	21AML72	YES		YES	2021
30	QUANTUM COMPUTING	21AML73	YES		YES	2021
31	DATAMINING AND DATA WAREHOUSING	21AML741	YES			2021
32	INTRODUCTION TO ROBOTICS	21AML742	YES		YES	2021
33	HUMAN COMPUTER INTERACTION	21AML743	YES		YES	2021
34	HIGH PERFORMANCE COMPUTING	21AML811	YES			2021
35	INTELLIGENT ROBOT AND DRONE TECHNOLOGIES	21AML812	YES		YES	2021
36	EDGE AI	21AML813			YES	2021
37	AUGMENT REALITY AND VIRTUAL REALITY	21AML821	YES		YES	2021
38	PREDICTIVE ANALYSIS IN IOT	21AML822	YES		YES	2021
39	INTELLIGENT MULTIAGENT AND EXPERT SYSTEM	21AML823	YES		YES	2021



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Department of Artificial Intelligence & Machine Learning

Minutes of the Meeting- Board of Studies – 2024

Meeting Title: Board of Studies	Date & Time : 06/05/2024, 9 AM to 11 AM	Venue: Virtual & MS Teams
Meeting Intent: To fine tune the syllabus in order to meet the industry requirements and bridge the skill gap.		
Meeting facilitator: Dr. Roopa B S, Head, AI&ML, GAT		
Meeting Attendees		
Industry Experts	Internal Members	Academic Experts
<ol style="list-style-type: none"> 1. Mr.Ritesh Sreenivasan, Former Scientist, Philps. 2. Mr. Sachin Shivkhalimath, Data Scientist, Genpact 	<ol style="list-style-type: none"> 3. Dr. Roopa B S, Prof, AI&ML, GAT 4. Prof. Lakshmikantha G C, 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. Vasugi I, Asst.Prof, AI&ML, GAT 	<ol style="list-style-type: none"> 8. Dr. Sudarshan Iyenger, Prof & Head, CSE, IIT Ropar. 9. Dr. M Dakshayini, Prof, ISE, BMSCE

Meeting Proceedings

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

The proposed 2021 Scheme & 2022 Scheme-Syllabus revision is approved by the experts. The following suggestion are to be incorporated in 2023 Scheme, as decided in the meeting.

Suggestions by Dr. Sudarshan Iyenger

- Machine Learning Essentials can be divided into 3 subjects as ML Foundations, ML Techniques and ML Practice.
- The curriculum for ML Foundations, ML Techniques and ML Practice can be referred as per IIT Madras Bachelor of Science Degree.
- Suggested to take content as a yardstick should be covered from IIT Madras.
- Data Structures and Design & Analysis of Algorithms can be merged into single subject.
- Mathematics and Statistics can be framed as Discrete Mathematics & Statistical Foundation and suggested to take syllabus from ACM.
- Suggested to include the textbook "Mathematics for ML" (<https://mml-book.github.io/>) for the subject Discrete Mathematics & Statistical Foundation.

Suggestions by Dr. M Dakshayini

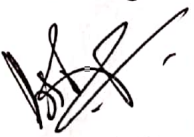
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Suggestions by Mr. Sachin Shivkhalimath

- Suggested to introduce the concept of Generative AI, MLOps/ Neural Networks for MLOps (Atleast to conduct one-week workshop).
- Advised to introduce SQL as a Lab Component to expand the practical exposure.
- Suggested to include the concepts of Git & Docker in Business Intelligence.
- Mini Project can be included in the curriculum for the theoretical subjects to enhance the practical exposure.

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

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


HOD,
Dept. of AI & ML



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Department of Artificial Intelligence & Machine Learning



DATE: 06-05-2024

BOS MEETING

GALLERY:



Re: Fw: Approval for a small revision of 2021 and 2022 scheme and syllabus

Dakshayani M <dakshayani.ise@bmsce.ac.in>

Tue 4/30/2024 3:20 PM

To: Department of AIML <hodaiml@gat.ac.in>

Dear Madam,

I went through the Scheme and the revised modules of all the courses of the syllabus. All the revisions are relevant with respect to the courses.

I am here by approving the same.

Dr. M Dakshayani

On Mon, Apr 29, 2024 at 2:56 PM Department of AIML <hodaiml@gat.ac.in> wrote:

Dear Madam,

I am enclosing the revised module structures for select courses (21AML 62,63 & 71; 22AML551), along with the corresponding Course Outcome (CO) to Program Outcome (PO) mapping(21AML76,83,84,85), and proposed evaluation schemes for mini projects, projects, and internships. These updates aim to enhance the effectiveness and relevance of our curriculum, ensuring alignment with industry needs and fostering holistic student development. Your expertise and insights are invaluable in shaping the educational experience of our students. We kindly request your review and approval of the proposed curriculum adjustments. Your guidance and approval will contribute significantly to the continual improvement of our academic offerings. Thank you for your time and consideration.

Looking forward for your approval at the earliest as semester is starting from MAY 2024.

Regards

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

Our
Vision

To provide progressive education and create transformative professionals and leaders to harness the power of technology and make a positive impact on the society

Our
Mission

- **Quality Education:** To adopt a student centric curriculum delivery process with emphasis on problem solving and programming skills.
- **Innovation:** To collaborate with industries and professional bodies and make the students industry ready. To drive innovation through multi-disciplinary research and development activities.
- **Skill Development & Ethics:** To endorse additional skill development through student forums and experiential learning. Inculcate human values for a smarter and ethical world.

Re: Approval for a small revision of 2021 and 2022 scheme and syllabus

R S <rstechcreations2020@gmail.com>

Fri 4/26/2024 6:38 PM

To: Department of AIML <hodaiml@gat.ac.in>

Dear Madam,

Approved

Kind Regards,
Rithesh S

On Thu, Apr 25, 2024 at 12:40 PM Department of AIML <hodaiml@gat.ac.in> wrote:

Dear sir

I am enclosing the revised module structures for select courses (21AML 62,63 & 71; 22AML551), along with the corresponding Course Outcome (CO) to Program Outcome (PO) mapping (21AML76,83,84,85), and proposed evaluation schemes for mini projects, projects, and internships. These updates aim to enhance the effectiveness and relevance of our curriculum, ensuring alignment with industry needs and fostering holistic student development. Your expertise and insights are invaluable in shaping the educational experience of our students. We kindly request your review and approval of the proposed curriculum adjustments. Your guidance and approval will contribute significantly to the continual improvement of our academic offerings. Thank you for your time and consideration.

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Regards

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

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Re: Approval for a small revision of 2021 and 2022 scheme and syllabus

Sachin Shivakalimath <sachin.smath@gmail.com>

Sat 4/27/2024 11:19 PM

To: Department of AIML <hodaiml@gat.ac.in>

Hello Mam,

I approve the proposed curriculum.

Regards,
Sachin Shivakalimath

On Thu, Apr 25, 2024 at 12:41 PM Department of AIML <hodaiml@gat.ac.in> wrote:

Dear sir

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Dept. of AI&ML, GAT

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Department of Artificial Intelligence & Machine Learning

BOARD OF STUDIES - 2024

Date: 06/05/2024

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. Lakshmikantha G C
Member	Prof. C Christlin Shanuja
Member	Prof. Udhayaprasad P K
Member	Prof. Vasugi I
Invited Member	
Invited Member	PRINCIPAL
Invited Member	DEAN


HOD


Dean


Principal

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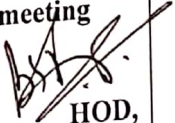
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 HOD,
 Dept. of AI & ML
 Professor & Head
 Dept. of Artificial Intelligence
 & Machine Learning
 Global Academy of Technology
 Bengaluru

Invitation- BOS

Department of AIML <hodaiml@gat.ac.in>

Sat 9/30/2023 1:36 PM

To:sachin.smith@gmail.com <sachin.smith@gmail.com>

Dear Sir,

Warm Greetings from Department of Artificial Intelligence & Machine Learning, Global Academy of Technology, !!!

As per our curriculum requirement, we need to conduct a Board of Studies meeting. In brief, this meeting brings an opportunity for academicians and industry experts to come together and provide meaningful solutions to make engineering education more productive for students and to address the skill gap. Kindly share your suggestions on our Scheme and Syllabus by making your presence virtually on 3rd October 2023, 11.00 am.

Kindly accept our invitation and honor us.

Best Regards
Dr Preeti Satish

Invitation- BOS Member

Department of AIML <hodaiml@gat.ac.in>

Sat 9/30/2023 1:34 PM

To: dakshayini.ise@bmsce.ac.in <dakshayini.ise@bmsce.ac.in>

Dear Madam,

Warm Greetings from Department of Artificial Intelligence & Machine Learning, Global Academy of Technology, !!!

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Invitaiton-BOS member

Department of AIML <hodaiml@gat.ac.in>

Sat 9/30/2023 1:35 PM

To:rstechcreations2020@gmail.com <rstechcreations2020@gmail.com>

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Best Regards
Dr Preeti Satish
Professor & HoD
Ai & ML, GAT

BOS-Invitation- AI& ML Department Global Academy of technology

Department of AIML <hodaiml@gat.ac.in>

Mon 9/25/2023 12:19 PM

To:sudarshan@iitrpr.ac.in <sudarshan@iitrpr.ac.in>

Dear Sir,

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Kindly accept our invitation and honor us.

Best Regards
Dr Preeti Satish
Professor & Head
AI & ML Department

Schme and syllabus - AI & ML department, GAT

Department of AIML <hodaiml@gat.ac.in>

Sat 9/30/2023 1:38 PM

To:sudarshan@iitrpr.ac.in <sudarshan@iitrpr.ac.in>

📎 5 attachments (4 MB)

2021 one sheet aiml syllabus_.pdf; 2021 one sheet aiml syllabus_.pdf; 2021_AIML_5_to_8_Syllabus.pdf; 2022 one sheet aiml syllabus.pdf; 2022_AIML_Syllabus_3rd_SEM_to_8th_SEM.pdf;

Dear Sir,

Please find as attachments

1. One sheet scheme and syllabus of 2021 batch
2. Scheme and syllabus of 2021 - 5th to 8th semester
3. One sheet scheme and syllabus of 2022 batch
4. Scheme and syllabus of 2022 - 3rd to 8th semester.

However, we will be presenting the analysis, highlights of the scheme and in detail the syllabus on the day of BOS meeting.

We request you to provide input on the same.

Thank You

Best Regards

Dr Preeti Satish

Professor & HoD

Global Academy of Technology

Scheme & Syllabus-AI & ML, GAT for refrence

Department of AIML <hodaiml@gat.ac.in>

Sat 9/30/2023 1:40 PM

To:dakshayini.ise@bmsce.ac.in <dakshayini.ise@bmsce.ac.in>

📎 4 attachments (4 MB)

2021 one sheet aiml syllabus_.pdf; 2021_AIML_5_to_8_Syllabus.pdf; 2022 one sheet aiml syllabus.pdf;
2022_AIML_Syllabus_3rd_SEM_to_8th_SEM.pdf;

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Thank You

Best Regards

Dr Preeti Satish

Professor & HoD

Global Academy of Technology



Department of Civil Engineering



FIFTH BOARD OF STUDIES (BOS) MEETING

Minutes of Meeting

Date: 16-10-2023

Time: 9:00 a.m. to 3:00 pm

Location: Global Academy of Technology, Bangalore- 560098

Agenda:

- (1) Review and approval of first/second semester Engineering Mechanics (23CIV13/23) and waste management (23ETC15F) course syllabus for 2023-24 batch.
- (2) Review and approval of BE (Civil engineering) III to VIII semester 2022-23 batch scheme and syllabus.
- (3) Review and approval of M. Tech (Civil Engineering) I & IV semester 2023-24 batch scheme and syllabus.

Points discussed during meeting.

Dr. Allamaprabhu Kamatagi welcomed all members to meeting and briefed the agenda of meeting and provided a quick brief of the scheme & syllabus for BE (Civil Engineering) and M-Tech (Structural Engineering).

Dr. N Rana prathap Reddy greeted all members of the board and provided a formal welcome.

As listed in the agenda Prof. Ankitha presented details of scheme and syllabus seeking review by the members.

The observations of external members are as follows:

Observations on first/second semester Engineering Mechanics (23CIV13/23) and waste management (23ETC15F) for 2023-24 batch:

- i. Analysis of stress is introduced in module 5 of Engineering Mechanics (23CIV13/23) and course outcomes is reframed as per the same.
- ii. Numerical are introduced in module 2 and module 3 of waste management (23ETC15F) and course learning objectives and course outcomes are reframed as per the same.

Observations on B.E. III to VIII semester 2022-23 scheme and syllabus:

- i. The following courses were suggested for renaming by the BOS members:
22CIV33 - Fluids and hydraulic machines; 22CIV34 - Building materials and concrete technology; 22CIV35 - Engineering geology and practice; 22CIVL37 -



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- Material testing and concrete laboratory; 22CIV45 - "Sustainable construction."; 22CIV46 - Design Studio; 22CIV554 - Modern construction materials and technology" and module 5 contents are reframed; 22CIV652 - "Smart cities."; 22CIV68 - "Project management laboratory" and primavera software has to be included; 22CIV752 - "Disaster mitigation and management."
- ii. Minor corrections are suggested in the contents of 22CIV752 - "Disaster mitigation and management" and rearrangement of the modules are suggested for few of the courses.
 - iii. Standard format was suggested for the representation of textbooks and references for all the courses.
 - iv. Standard Textbooks and references are suggested to be included for few of the courses.
 - v. E resources are recommended for certain courses.

Observations on M. Tech I to IV 2023-24 scheme and syllabus:

- i. Minor corrections in the contents and rearrangement of the modules are suggested for few courses.
- ii. Standard Textbooks and references are suggested to be included for few of the courses.
- iii. E resources are recommended for all the courses.


 Head of Department
 Civil Engineering
 Global Academy of Technology
 Rajarajeshwarinagar Bangalore - 98


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



Proceedings of Fifth BOS Meeting

Date: 16-10-2023

Venue: Dept. of Civil Engineering

Time: 9:00 a.m. to 3:00 pm



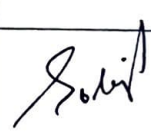






1. The scheme and syllabus of 2022-23 UG and 2023-24 PG was discussed and was modified according to the suggestions by BOS members. The revised scheme and syllabus for the same is attached herewith.
2. The syllabus of "Engineering Mechanics" subject was revised with introduction of "Analysis of truss" in module 5
3. The following courses were renamed as per the suggestions from the BOS members:
22CIV33 - Fluids and hydraulic machines; 22CIV34 - Building materials and concrete technology; 22CIV35 - Engineering geology and practice; 22CIVL37 - Material testing and concrete laboratory; 22CIV45 - "Sustainable construction."; 22CIV46 - Design Studio; 22CIV554 - Modern construction materials and technology" and module 5 contents are reframed; 22CIV652 - "Smart cities."; 22CIV68 - "Project management laboratory" and primavera software has to be included; 22CIV752 - "Disaster mitigation and management."
4. Standard format to represent textbook and reference books was followed for all the courses.
5. The modules of certain courses were rearranged as per the suggestions from the BOS members.


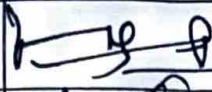
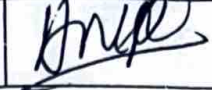
Head of Department
Civil Engineering
Global Academy of Technology
Rajarajeshwarinagar Bangalore

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Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

Board of Studies – Members List

16th October 2023

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	Absent
4.	Subject Expert 2	Dr. L Govindaraju, Professor. UVCE, Bengaluru University., 9731336546., rajulgovinda@gmail.com	
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 and irrigation structures.. Design Academy Consulting Civil Engineers., 9110250187, acshivakumar86@gmail.com	
7.	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	
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	
12	Invited member	Dr. N Rana Pratap Reddy, Principal, GAT, Bengaluru, 9591510211., principal@gat.ac.in	
13	Invited member	Dr. H.N. Rajashekaraswamy, Dean, GAT, Bengaluru, 8095503309., rajashckharswamy@gat.ac.in	



Head of Department
Civil Engineering
Global Academy of Technology
Saiarajeshwarinagar Bangalore



Department of Computer Science and Engineering

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
BOARD OF STUDIES
Academic Year -2023

Sl. No.	Designation	Name	Affiliation	E-MAIL ID & Contact No.
1.	Chairman	Dr. Kumaraswamy S	Head of the Department. CSE, GAT, Bengaluru.	skswamy@gat.ac.in 9886363412
2.	VTU Nominee	Dr. H S Guruprasad	Professor, Dept. of ISE, BMS College of Engineering, Bengaluru.	guru.ise@bmsce.ac.in 9845516780
3.	Subject Expert 1	Dr. Nagaraja G S	Professor and Associate Dean (PG), Dept. of CSE, RVCE, Bengaluru.	nagarajags@rvce.edu.in 9880017459
4.	Subject Expert 2	Dr. G. S. Girish	Professor, Dept. of CSE, Dayananada Sagar University, Bengaluru.	girisha-cse@dsu.edu.in 9880336008
5.	Subject Expert 3	Dr Piyush Kumar Pareek	Professor and Head Department of AI & ML and IPR, Nitte Meenakshi of Technology, Bengaluru.	piyush.kumar@nmit.in 8095372283
6.	Industry Representative	Mr. S. Nagendra Swamy	Program Director, Sharp Software Development India Pvt. Ltd., Bengaluru.	snagendra@ssdi.sharp.co.in 9686439600
7.		Mr. Rajesh Nambiar	Director, Asia Pacific- Japan, Academic and Learning Alliances, UiPath India, Bengaluru.	rajesh.nambiar@uipath.com 9513587730
8.		Mr. Elvyn Wheatley	NTT DATA, Technical Solutions Architect, Senior Director, Bengaluru.	elvyn.wheatley@nttdata.com
9.	Distinguished Alumnus	Mr. Santosh Nag	Staff Software Engineer, GE Healthcare, Bengaluru.	santosh.p@ge.com 9686951919
10.	Member Convenor	Dr. N. Guruprasad	Professor, Dept. of CSE, GAT, Bengaluru.	nguruprasad@gat.ac.in 9845470022
11.	Member	Dr. R Kanagavalli	Professor, Dept. of CSE, GAT, Bengaluru.	kanagavalli@gat.ac.in 9845117178
12.	Member	Dr. Jyothi R	Professor, Dept. of CSE, GAT, Bengaluru.	jyothir@gat.ac.in 9480608535
13.	Member	Dr. Roshan Joy Martis	Associate Professor, Dept. of CSE, GAT, Bengaluru.	roshaniitmst@gat.ac.in 7259992211
14.	Member	Prof. Vanishree M L	Assistant Professor, Dept. of CSE, GAT, Bengaluru.	vanishree.ml@gat.ac.in 9448883377
15.	Invited Member	Dr. Rana Pratap Reddy N	Principal, GAT, Bengaluru.	principal@gat.ac.in 9591510211
16.	Invited Member	Dr. H M Rajashekhar Swamy	Dean Academics, GAT, Bengaluru.	rajashekharswamy@gat.ac.in 8095503309

Skswamy 3/10/2023
 Signature of the Head of Dept.

H.M. Rajashekhar Swamy
 Signature of the Dean

[Signature]
 Signature of the Principal



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)



Meeting Date	04 October 2023	Mode of Meeting	Hybrid: Offline - Conference Room, Annexe C Online: Google Meet joining info Video call link: https://meet.google.com/iuk-hwnn-bod
Meeting start and end time	10:00 am - 01:30 pm	Meeting Chair	Dr. Kumarawamy S Chairman-BOS(CSE)
Meeting Organizer / Convenor	Dr. N. Guruprasad Convenor-BOS(CSE)	Meeting Title	Fourth Board of Studies Meeting - CSE
Meeting scribe	Dr. Roshan Joy Martis	Drafted Date	05 October 2023

Attendees	Apologies
Refer Attendance sheet enclosed.	

Meeting agenda:

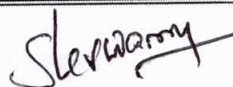
- Welcome by Member Convenor – Dr. N. Guruprasad
- Address by Principal
- Presentation by Head-CSE – Dr. Kumaraswamy S
 - Dissemination of Vision & Mission of the department
 - Scheme and syllabus of 2022 scheme - UG 3rd to 8th semester
 - First year syllabus of 23CSE13 (Principles of Programming using C - Integrated), 23PLC23A (Advanced Programming in C - Integrated) and 23ESC14C (Introduction to C Programming - Integrated)
- Discussion of Introduction of Value Added Courses
- Any other matter with the permission of the chair
- Vote of thanks by Dr. Kanagavalli R

Discussion and Deliberations of the Meeting

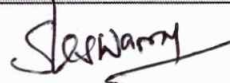
- Member Convenor Dr. N. Guruprasad – Professor CSE in the presence of the Honourable Chairs' welcomed all the esteemed members of BoS.
- Vision and Mission of CSE was disseminated by Dr. Kumaraswamy S
- Head – CSE and Chairman BoS Dr. Kumaraswamy S presented the scheme, syllabus, course objectives, course outcomes and textbooks for the above said scheme.
- External members and Internal members discussed and gave their opinion for the course syllabus proposed in the presence of the Honourable Chairs'
- Dr. Kanagavalli R concluded the BOS meet by proposing vote of thanks.

S. Kumarawamy

SI No	Suggestions by External Members	Remarks/ Responses by Honourable chairs
1	<p>Semester 3 courses:</p> <p>It was suggested to include a course on “Probability and Statistics” in the syllabus. The deliberations continued. Finally, all the members have opined that some basic concepts of probability and statistics are covered in engineering mathematics course of 1st and 2nd semesters. It was also noted that the 3rd semester subject, “Discrete Mathematics (22MAT31A)” provides some contents on probability, combinatorics, linear algebra etc. relevant to computer science.</p> <p>22CSE32: Data Structures (Integrated)</p> <p>1) In COs, the Blooms taxonomy action verbs should be application, analysis, design etc. Same action verbs should not repeat more times. Same suggestion holds for the other instances of other courses in the syllabus. 2) COs should cover generic points rather specific points. 3) Instead of having predefined programs set it is better to have generic programs. 4) Mr. Nagendra Swamy - CS students do not fit in Embedded Systems.</p> <p>22CSE33: Digital Design and Computer Organization (Integrated)</p> <p>It was suggested to include following in the syllabus. a) Interfacing of memory b) Applications of digital design c) One experiment to identify hardware components such as RAM, Processor, disk etc.</p> <p>22CSE34: Operating Systems</p> <p>It was suggested to include the topics like” Deckers algorithm” into the syllabus. It was deliberated that Value Added Courses (VAC) can be conducted on this topic to supplement this missing content.</p> <p>22CSE35 Introduction to Web Technologies (Integrated) and 22CSE36 UNIX and SHELL Programming (Integrated)</p> <p>It was proposed to impart website development skills among students through this subject. It was also suggested to go only for Lab Assessment rather than Theory.</p> <p>For Web Technology – to include best practices and guidelines such as cross browser compatibility, handling</p>	<ul style="list-style-type: none"> • Dr Kumaraswamy acknowledged to have a relook into the suggestions given by the Respected Committee members. Will inform the Dept. of Mathematics to incorporate the suggestions. • For 22CSE35 and 22CSE36 – acknowledged for only lab component and assured of having good assessment framework in place • For any missing content relevant Value Added Program can be conducted.



	different media sizes and so on. This can be addressed as part of THEORY	
2	<p>Semester 4 courses:</p> <p>22CSE42: Object Oriented Programming with Java (Integrated)</p> <p>It was proposed to teach object-oriented programming (OOP) concepts using C++ so that OOP concepts will be clear. It was deliberated. Both pros and cons were discussed.</p> <p>22CSE43: Design & Analysis of Algorithms (Integrated)</p> <p>Syllabus was appreciated. How you assess is more important. Best practice – let them come in the morning, give quality questions ask them to submit the same day evening. It is INNOVATIVE PRACTICE.</p> <p>22CSE44: Software Engineering</p> <p>It was proposed to introduce tools available for software engineering to provide practical exposure so that student attention be improved. Industry involvement is very important. May be 50% from faculty and 50% from industry. This can also be claimed in NBA Criteria 5</p> <p>22CSE45: Data Visualization (Integrated)</p> <p>1) It was proposed to cover some tools like “Power BI” and “R” in the syllabus. It was deliberated, all possibilities are discussed, and the syllabus was agreed by all the members. 2) It was suggested to reframe the sentences for the list of experiments in laboratory component where same word “Develop a program” is repeating. It was agreed to comply.</p> <p>22CSE46: Full stack Framework – Frontend (Integrated)</p> <p>1) It was suggested to modify the title as “<u>Fundamentals of Full stack</u>”. 2) It was deliberated to bring conceptual connectivity among front end and back end and is agreed upon by all member.</p> <p>Overall Comments: It was suggested to teach the subject by inculcating experiential learning, ethics, community service creation of bucket and give different task to different students.</p>	<p>Dr Kumaraswamy acknowledged to have a relook into the suggestions given by the Respected Committee members.</p> <p>Will also try and implement INNOVATIVE PRACTICES</p>
3	<p>Semester 5 courses:</p> <p>22CSE52: Database Management Systems (Integrated)</p> <p>1) It was suggested to include some practical problems of different organisations including government departments and private companies. 2) It was suggested to avoid “?” in the syllabus contents. Example - In Module 4, “What is it and why you need it?”</p>	<p>Dr Kumaraswamy acknowledged to have a relook into the suggestions given by the Respected Committee members.</p> <p>Will also include mobile application development using android in the course 22CSE56. And also give some</p>



	<p>22CSE53: Machine Learning (Integrated)</p> <p>As machine learning is part of larger subject “Artificial Intelligence” (AI), it was suggested to include machine learning contents rather than AI. Wherever AI contents appear in the syllabus, it was suggested to avoid. In Module 1, “Intersection of AI, ML and DL”</p> <p>22CSE551: Robotic Process Automation</p> <p>1) It was opined that the title “Robotic Process Automation” is little old buzz word. Hence it was suggested to rename the title as “Business Automation” from the subsequent cycle.</p> <p>22CSE554: Computer Graphics</p> <p>1) The syllabus was agreed after deliberations. It was suggested to make this course as a core subject.</p> <p>22CSE56: Android Programming (Integrated)</p> <p>1) It was suggested to have credits on 0-0-4 instead of 1-0-2. To compensate more credits for practical, it was suggested to add more contents.</p>	specific application development problems to students as mini project.
4	<p>Semester 6 courses:</p> <p>22CSE62: Advanced Java (Integrated)</p> <p>1) It was suggested to include “Restful services” in the syllabus.</p> <p>22CSE62: Computer Networks (Integrated)</p> <p>1) It was also noted to connect this subject with TCP/IP concepts.</p> <p>22CSE654: Introduction to Java</p> <p>1) It was deliberated to rename the title as “Stay Safe Online” to meet current trends in the perception of the subject</p> <p>22CSE641 – System Software and Compiler Design - include LOADER. Essentials of SYSTEM SOFTWARE to be given.</p> <p>General Comments:</p> <p>1) It was suggested to reduce the contents and number of hours in 22CSE651 (Advance Python) as the course is offered to other departments.</p> <p>2) It was suggested to include practical based courses for open electives.</p> <p>3) It was suggested to include course on “Applied Analytics” or “Fundamentals of Data Science” in open electives offered to other branches.</p>	
5	<p>Semester 7 courses:</p> <p>22CSE752: Cloud Computing</p>	

	<p>1) It was suggested to change the title and make it more general as the course is offered to other departments.</p> <p>22CSE753: Mobile Application Development</p> <p>1) It was suggested to have different contents for module 2 as it is same as module 1 contents.</p> <p>22CSE754: R Programming</p> <p>1) It was suggested to reframe the title with a more general, less technical and with a current buzz word as it is offered to the students of other departments.</p>	
6	<p>Semester 8 courses:</p> <p>22CSE823: Software Architecture and Design Patterns</p> <p>1) It was suggested not to include ‘?’ in the syllabus contents.</p> <p>22CSE824: Advanced Computer Architecture</p> <p>1) It was suggested to include “High Performance computing” instead of “Advanced Computer Architecture”. It was deliberated and finally the title as “Advanced Computer Architecture” is agreed upon.</p> <p>2) It was also put forth to include ‘Field Programmable Gate Arrays (FPGA)’ in the syllabus.</p> <p>22CSE84: Project Work Phase II</p> <p>1) It was suggested to give more emphasis on the project. Students have to explore dep into the problem domain.</p>	
	<p>It was suggested the possibility to include following subject in the 6th and 7th semesters:</p> <p>i) Wireless sensor networks.</p> <p>ii) Wireless Technology</p> <p>iii) Microprocessor/Microcontroller</p> <p>iv) Heterogenous Computing</p> <p>v) Neural Networks for classification</p> <p>vi) Any other software for computing instead of R</p> <p>vii) Research Methodology & IPR</p>	
	<p>General Remarks</p> <p>1) Why one CO for each module. It becomes Course Module Outcomes and not Course Outcomes</p> <p>2) Think of EXPERIMENTAL LEARNING Can be Community Service, NPTEL, MOOC etc</p> <p>3) Frame proper RUBRICS wherever applicable</p> <p>4) In any syllabus – do not have any question related statement. Example – Why do you need it?</p> <p>5) Eighth Semester is overloaded. Have project only in final semester.</p> <p>6) VTU / UGC has given guidelines as to how many programs to be there in lab Refer IIT, NIT Foreign univ materials.</p> <p>7) Highlighted on certification courses</p>	

	<p>First year - 23CSE13 and 23PLC23A</p> <p>1) It was suggested to keep the syllabus simpler for the courses offered to the students of other departments than the students of Computer Science and Engineering.</p> <p>2) It was suggested to include common textbooks for common subject across.</p> <p>3) It was suggested to change the title of Module-4 as “Looping” instead of “Repetition”.</p> <p>4) For non CSE student coverage is more in First semester compared to CSE students.</p> <p>5) Justification cannot be – teaching 2 times for CS and hence contents are reduced in semester</p> <p>6) Have common methodology (template)for Text Books and reference Books</p>	
	<p>Discussion on Value Added Programs</p> <p>The members discussed and advised the department to introduce value added courses on latest technologies like <u>AWS</u> cloud, Industrial C#, full stack front end and back end tools.</p>	<p>Dr Kumaraswamy acknowledged to have a relook into the suggestions given by the Respected Committee members on addition of value added courses in the TLP</p>


HOD-CSE

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


Dean

Dr. H M Rajashekhar Swamy
Dean (Academics)
Global Academy Of Technology
Rajarajeshwari Nagar ,
Bangalore - 560 098.


Principal

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



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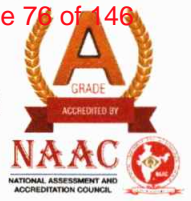
Department of Computer Science and Engineering

(Accredited by NBA 2022-2025)

Date: 04.10.2023

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	<i>Kumaraswamy</i>
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	<i>G.S.Nagaraja</i>
4	Dr. G S Girish	Professor, Dept. of CSE, Dayananada Sagar University, Bengaluru	Subject Expert 2	—
5	Dr Piyush Kumar Pareek	Professor and Head Department of AI & ML and IPR, Nitte Meenakshi of Technology, Bengaluru	Subject Expert 3	<i>Piyush</i>
6	Mr. S Nagendra Swamy	Program Director, Sharp Software Development India Pvt. Ltd., Bengaluru	Industry Representative	<i>S.Nagendra</i>
7	Mr. Rajesh Nambiar	Director, Asia Pacific- Japan, Academic and Learning Alliances. UiPath India, Bengaluru	Industry Representative	<i>Rajesh</i>
8	Mr. Elvyn Wheatley	Senior Director, Technical Soln Architect, NTT Data, Bengaluru	Industry Representative	Online
9	Mr. Santosh Nag	Staff Software Engineer, GE Healthcare, Bengaluru	Distinguished Alumnus	Online
10	Dr. N Guruprasad	Professor, Dept. of CSE, GAT	Member Convenor	<i>N.Guruprasad</i>
11	Dr. R Kanagavalli	Professor, Dept. of CSE, GAT	Member	<i>R.Kanagavalli</i>
12	Dr. Jyothi R	Professor, Dept. of CSE, GAT	Member	<i>Jyothi</i>
13	Dr. Roshan Joy Martis	Associate Professor, Dept. of CSE, GAT	Member	<i>Roshan</i>
14	Prof. Vanishree M L	Assistant Professor, Dept. of CSE, GAT	Member	<i>Vanishree</i>
15	Dr. Rana Pratap Reddy N	Principal, GAT	Invited Member	<i>R.P.Reddy</i>
16	Dr. H M Rajashekhar Swamy	Dean Academics, GAT	Invited Member	—




DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BOARD OF STUDIES-M.Tech

Academic Year -2023

Sl. No.	Designation	Name	Affiliation	E-MAIL ID & Contact No.
1.	Chairman	Dr. Kumaraswamy S	Head of the Department, CSE, GAT, Bengaluru.	skswamy@gat.ac.in 9886363412
2.	VTU Nominee	Dr. H S Guruprasad	Professor, Dept. of ISE, BMS College of Engineering, Bengaluru.	guru.ise@bmsce.ac.in 9845516780
3.	Subject Expert 1	Dr. Nagaraja G S	Professor and Associate Dean (PG), Dept. of CSE, RVCE, Bengaluru.	nagarajags@rvce.edu.in 9880017459
4.	Subject Expert 2	Dr. Jalesh Kumar	Professor and Head, Dept. of CSE, Jawaharlal Nehru National College of Engineering, Shivamogga	jaleshkumar@jnncce.ac.in 9449423361
5.	Industry Representative	Mr. S. Nagendra Swamy	Program Director, Sharp Software Development India Pvt. Ltd., Bengaluru.	snagendra@ssdi.sharp.co.in 9686439600
6.		Mr. Rajesh Nambiar	Director, Asia Pacific- Japan, Academic and Learning Alliances, UiPath India, Bengaluru.	rajesh.nambiar@uipath.com 9513587730
7.		Mr. Elvyn Wheatley	NTT DATA, Technical Solutions Architect, Senior Director, Bengaluru.	elvyn.wheatley@nttdata.com 9686662073
8.	Distinguished Alumnus	Mr. Santosh Nag	Staff Software Engineer, GE Healthcare, Bengaluru.	santosh.p@ge.com 9686951919
9.	Member Convenor	Dr. R Kanagavalli	Professor, Dept. of CSE, GAT, Bengaluru.	kanagavalli@gat.ac.in 9845117178
10.	Member	Dr. Jyothi R	Professor, Dept. of CSE, GAT, Bengaluru.	jyothir@gat.ac.in 9480608535
11.	Member	Dr. Roshan Joy Martis	Associate Professor, Dept. of CSE, GAT, Bengaluru.	roshaniitmst@gat.ac.in 7259992211
12.	Member	Dr. Anitha K	Associate Professor, Dept. of CSE, GAT, Bengaluru.	anitha.k@gat.ac.in 9880770146
13.	Member	Prof. Vanishree M L	Assistant Professor, Dept. of CSE, GAT, Bengaluru.	vanishree.ml@gat.ac.in 9448883377
14.	Invited Member	Dr. Rana Pratap Reddy N	Principal, GAT, Bengaluru.	principal@gat.ac.in 9591510211
15.	Invited Member	Dr. H M Rajashekhar Swamy	Dean Academics, GAT, Bengaluru.	rajashekharswamy@gat.ac.in 8095503309


Signature of the Head of Dept.


Signature of the Dean


Signature of the Principal



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Department of Computer Science and Engineering

Accredited by NBA 2022 - 2025

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Minutes of Meeting of Board of Studies (BoS) Committee

Date: 26th of February 2021

Time: 2:00PM

Mode: Online(MS Teams)

Link:

https://teams.microsoft.com/l/meetup-join/19%3ameeting_Mjc1NTVIOTgtZGNiNS00NGI3LTk0ODktYzhiMDNiYjhiODQ3%40thread.v2/0?context=%7b%22id%22%3a%227b887c76-d8d8-4448-9bf5-a51820345eb4%22%2c%22oid%22%3a%22dd15e6e2-aa6a-4c0e-98ab-bc28346c8ff9%22%7d

I. Agenda:

- Presentation of the draft syllabus of 2023-2025 batch of post graduate course in Computer Science and Engineering to the committee for deliberations and its approval by the committee.
- Discussion on the MOOC Courses to include in the curriculum.
- Conduction of Value-Added Courses to the students.
- Any other point with the permission of the chairman.

II. Attendees:

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 Head, Dept. of CSE, JNNCE, Shivamogga	Subject Expert 2

Sl. No.	Name of the BOS Member	Name of the Institution/Organization	Designation
5	Mr. S Nagendra Swamy	Program Director, Sharp Software Development India Pvt. Ltd., Bengaluru	Industry Representative
6.	Mr. Rajesh Nambiar	Director, Asia Pacific- Japan, Academic and Learning Alliances, UiPath India, Bengaluru	Industry Representative
7	Mr. Elvyn Wheatley	Senior Director, Technical Soln Architect, NTT Data, Bengaluru	Industry Representative
8	Mr. Santosh Nag	Staff Software Engineer, GE Healthcare, Bengaluru	Distinguished Alumnus
9	Dr. R. Kanagavalli	Professor, Dept. of CSE, GAT	Member Convenor
10	Dr. Jyothi R.	Professor, Dept. of CSE, GAT	Member
11	Dr. Roshan Joy Martis	Associate Professor, Dept. of CSE, GAT	Member
12	Dr. Anitha K	Associate Professor, Dept. of CSE, GAT	Member
13	Prof. Vanishree M L	Assistant Professor, Dept. of CSE, GAT	Member
14	Dr. Rana Pratap Reddy N	Principal, GAT	Invited Member
15	Dr. H M Rajashekhar Swamy	Dean Academics, GAT	Invited Member

III. Proceedings:

Dr. R. Kanagavalli, introduced all the members of BoS Committee and welcomed the gathering. Dr. Kumaraswamy S. briefed Vision and Mission and the post graduate programme of the Department of Computer Science and Engineering. He also presented the agenda of the meeting. The session was declared open for discussion. Following are the points discussed in the meeting:

1. It was suggested to include more practical courses in to the curriculum specially semester 1 and 2, it was agreed to address.
2. It was discussed to reduce theory courses in each semester in detail and it was agreed upon unanimously.
3. It is necessary to look into the PO-CO mapping meticulously for each subject.
4. It is advised to see the guidelines of VTU, AICTE and other Statutory Bodies while designing credits for each subject, specially project work phase 2 (23MCS41) in the fourth semester.
5. It is suggested not include PSO's for the PG Courses.
6. It is recommended to have a brainstorming session with in the department and come out with the best possible solution.

Finally, the session came to an end with vote of thanks is given by Dr. R. Kanagavalli, Member Convenor of the committee.

Drafted By


Dr. Roshan Joy Martis 26/2/2024


Associate Professor

Reviewed By


Dr. R Kanagavalli 26/2/24

Professor


Endorsed By


Dr. Kumaraswamy S 26/2/24

Professor & Head



Dr. H M Rajashekhar Swamy
Dean (Academics)
Global Academy Of Technology
Rajarajeshwari Nagar ,
Bangalore - 560 098.



Dr. Ranapratap Reddy. N
PRINCIPAL
Global Academy of Technology
Ideal Homes Township
Rajarajeshwari Nagar, Bangalore-560 098



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Department of Computer Science and Engineering

(Accredited by NBA 2022-2025)

Date: 26.02.2024

BOS (M.Tech) 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	<i>Skwamy</i>
2	Dr. H S Guruprasad	Professor, Dept. of ISE, BMS College of Engineering, Bengaluru	VTU Nominee	Attended online
3	Dr. Nagaraja G S	Professor and Associate Dean (PG), Dept. of CSE, RVCE, Bengaluru	Subject Expert 1	Attended online
4	Dr. Jalesh Kumar	Professor and Head, Dept. of CSE, Jawaharlal Nehru National College of Engineering , Shivamogga	Subject Expert 2	Attended online
5	Mr. S Nagendra Swamy	Program Director, Sharp Software Development India Pvt. Ltd., Bengaluru	Industry Representative	Attended online
6	Mr. Rajesh Nambiar	Director, Asia Pacific- Japan, Academic and Learning Alliances, UiPath India, Bengaluru	Industry Representative	Attended online
7	Mr. Elvyn Wheatley	Senior Director, Technical Soln Architect, NTT Data, Bengaluru	Industry Representative	Attended online
8	Mr. Santosh Nag	Staff Software Engineer, GE Healthcare, Bengaluru	Distinguished Alumnus	Attended online
9	Dr. R Kanagavalli	Professor, Dept. of CSE, GAT	Member Convenor	<i>R Kanagavalli</i>
10	Dr. Jyothi R	Professor, Dept. of CSE, GAT	Member	<i>Jyothi R</i>
11	Dr. Roshan Joy Martis	Associate Professor, Dept. of CSE, GAT	Member	<i>Roshan Joy Martis</i>
12	Dr. Anitha K	Associate Professor, Dept. of CSE, GAT	Member	<i>Anitha K</i>
13	Prof. Vanishree M L	Assistant Professor, Dept. of CSE, GAT	Member	Attended online
14	Dr. Rana Pratap Reddy N	Principal, GAT	Invited Member	<i>Rana Pratap Reddy N</i>
15	Dr. H M Rajashekhar Swamy	Dean Academics, GAT	Invited Member	<i>H M Rajashekhar Swamy</i>

Skwamy

H M Rajashekhar Swamy

Rana Pratap Reddy N



Department of CSE (Artificial Intelligence and Machine Learning)



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(An Autonomous Institute under VTU, Belagavi, Approved by AICTE and Government of Karnataka)
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Department of Computer Science & Engineering(AI&ML)



Meeting Date	15 December 2023	Mode of Meeting	Offline
Meeting start and end time	11:30 am -01:30 pm	Meeting Chair	Dr. Chandramma R Chairman-BOS
Meeting Organizer / Convenor	Dr. Chandramma R	Meeting Title	First Board of Studies Meeting (CSE (AI&ML))for the Academic Year 2023-24
Meeting scribe	Mrs. Saranya Babu	Drafted Date	15 December 2023

Attendees	Apologies
Refer Attendance sheet enclosed.	<ol style="list-style-type: none"> 1. Dr. Indiramma- Professor, Dept. of CSE, BMS College of Engineering, Bengaluru 2. Mr. Nataraja K M- Technical Architect, LG soft India, Bengaluru

Meeting agenda:

1. Welcome Address
2. Dissemination of Vision, Mission, PSO's and PEO'S
3. Approval of Proposed Scheme from 3rd semester to 8th semester of 2022 scheme
4. Approval of Proposed syllabus for 3rd and 4th semester of 2022 Scheme
5. Vote of Thanks

Deliberations of the Meeting

1. Chairman-BOS Dr. Chandramma R – Professor , H.O.D 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 Scheme from 3rd semester to 8th semester of 2022 scheme was presented.
4. Further Member Convenor presented the syllabus of 3rd and 4th semester of 2022 scheme, course objectives, course outcomes 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 concluded the first 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. Suggested to give a general term instead of specifying separate terms in PSO2	Honourable chair acknowledged to relook into the PSO's
		B. To remove the lab component from the subject 22CML33 Digital Design and Computer Organization	Removal of lab component of DLD subject will be taken care from the next scheme
		C. Incorporation of Laboratory component instead of tutorials in 22CML46 advanced python	Decided to relook into laboratory part in advanced python
		D. Strongly recommended to reduce the number of subjects in 8 th semester.	The suggestion to reduce number of theory subjects in 8 th semester will be forwarded for the final decision by Academic council.
		E. To redefine the Data Science track in program elective .	Dr. Chandramma R has acknowledged that the data science track will be redefined and also agreed to change the subject title to Data Visualization
		F. Suggested to change the title Data visualization using Tableau/ powerbi to 22CML56 Data Visualization	
2	Dr. Sachin Prabhu	A. Appreciated for including the subject of 22CML61 Devops for AI and suggested to keep the title name as Devops	Dr. Chandramma R acknowledged to change 22CML53 Machine Learning-1 as Fundamentals of Machine Learning and 22CML62 Machine Learning -2as Advanced Machine learning and 22CML61 Devops for AI as Devops.
		B. Suggested to change the titles of 22CML53 Machine Learning-1 and 22CML62 Machine Learning -2	
		C. Suggested to give an introduction on devops in the last module of software engineering	Honourable chair clarified that Devops introduction will be given in 22CML61 DevOps subject
		D. Advised to give a refresher talk on program elective tracks for students	It was clarified that every professional elective subject introduction will be given before students choosing for it.
3	Mr. Vijay Muniraj	A. Appreciated for including the latest courses in the syllabus	Honourable chair agreed for renaming the subject as 22CML71 Natural Language Processing.
		B. Advised to remove speech analysis from the title of 22CML71 speech analysis and natural language processing in 7 th sem	
		C. Suggested to add ethics to be followed in designing the machine learning models	Clarified that Ethics related course is already covered in first year scheme.
		D. Suggested not to mention the tool name in subject title and all BOS members supported for the same	Agreed to remove the tool name from the subject title wherever applicable .
		E. Suggested to change 22CML654 android application development to mobile application development	
		F. Queried on the way of selecting Program electives and open electives	Internal BOS members clarified on program electives and open electives

The scheme and syllabus pertaining to 2022 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 from 3rd to 8th semester and syllabus of 3rd and 4th semester of 2022 scheme with changes as mentioned below.

- 22CML53- Machine learning-1 renamed as Foundations of Machine Learning(Integrated)
 - 22CML56- Data visualization using Tableau/ powerbi has been changed to Data Visualization
 - 22CML61- Subject has been titled as DevOps
 - 22CML62- Machine learning-II renamed as Advanced Machine Learning
 - 22CML654- Android application development has been renamed as Mobile Application Development
 - 22CML71- Removed speech analysis from the title and named as Natural Language Processing
- Program Elective :Data Science track has been rechecked.

The syllabus for the 5th to 8th semester of 2022 scheme will be presented in second BoS meeting



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



Dr. H M Rajashekar Swamy
Dean - Academics
Dean Academic



Dr. N. Ranaprathap Reddy
Principal
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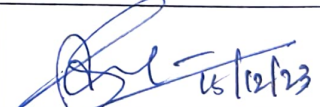
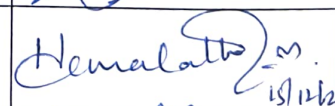
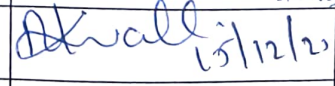

HEAD OF THE DEPARTMENT
Dept. of Computer Science & Engineering (AI & ML)
Global Academy of Technology
Bangalore- 560 098.

Department of CSE(AI&ML)

BOS Members List


Date:15.12.2023

List of Professors for Nomination to Board Of Studies(BOS) of the Department of Computer Science and Engineering(AI&ML).

Sl. No.	Designation	Name	Affiliation	Signature
1.	Chairman	Dr. Chandramma R	Professor & HOD Dept. of CSE(AI&ML), GAT, Bengaluru.	 15/12/2023
2.	VTU Nominee	Dr. M Sagar	Prof. & HOD, Dept. of ISE, RV College of Engineering, Bengaluru-560059	 15/12/2023
3.	Academic Subject Expert	Dr. Sachin Prabhu	Research Software Engineer University of Leeds, United Kingdom	 15/12/2023
4.	Academic Subject Expert	Dr. Indiramma	Professor, Dept. of CSE, BMS College of Engineering, Bengaluru-	-
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.	 15/12/2023
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.	 15/12/23
9.	Member	Mrs. Hemalatha	Assistant Professor, Dept. of CSE(AI&ML), GAT, Bengaluru.	 15/12/23
10	Member	Dr. Kanakavalli .R	Professor, Dept. of CSE, GAT Bengaluru.	 15/12/23
11	Invited Member	Dr. Rana Prathap Reddy	Principal, GAT, Bengaluru	



12	Invited Member	Dr. Rajashekara Swamy	Dean Academics, GAT, Bengaluru	
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HOD
CSE(AIML)


Dean- Academics
Dean Academic
Global Academy of Technology,
Rajarajeshwarinagar, Bengaluru-03


Dr. N Rana Pratap Reddy
Principal




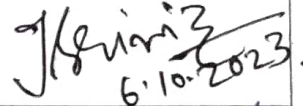
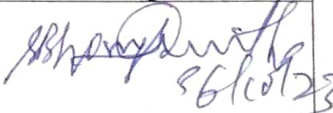
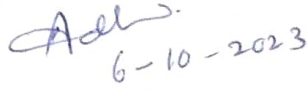


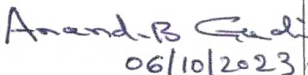



Department of Electronics and Communication Engineering

BOS-ECE Meeting:

- Agenda: 1. Finalization and Approval of 2022 scheme and Syllabus
2. Approval of 2023 first year syllabus of ECE subjects.

Members attended:

Date: 06/10/2023

Sl.	Name	Designation	Signature
01	Dr. Manjunatha Reddy H S HOD/ECE, Global Academy of Technology	Chairman	
02	Dr. T Srinivas Professor, Dept. of ECE Indian Institute of Science, Bengaluru- 560012	Member (Subject Expert)	 6.10.2023.
03	Dr. S.B. Bhanu Prashanth Professor, Dept. of Medical Electronics B.M.S. College of Engineering, Bengaluru -560 019	Member (Subject Expert)	 6/10/23
04	Dr. A V Narasimhadhan Assistant Professor/ECE National Institute of Technology, Suratkal-575025	Member (VTU Nominee)	 6-10-2023
05	Kiran Y M Architect, Robert Bosch, Bengaluru	Member (Industry)	- AB -
06	Dr. Jayaprakash Sabarad Senior Technical Engineer Wabtec India Industrial Private Limited ITC Green Centre, 6 th floor, Southwest Tower, No.18, Maruthi Seva Nagar, Bengaluru-560005	Member (Industry)	- AB -
07	Gavarav Vanawat Senior program Lead and Architect SAP Labs India Pvt.Ltd, Whitefield Bengaluru-560066	Member (Alumni)	- AB -
08	Ramya K V , Assistant Professor/ECE	Member Convener	
09	Dr. Ravi J , Professor/ECE	Member	
10	Dr. Anandthirtha B Gudi , Professor/ECE, GAT	Member	 06/10/2023.
11	Dr. Manjunatha R C , Associate Professor/ ECE	Member	
12	Dr. Leelavathi H P , Associate Professor/ECE	Member	
13	Dr. H K Shreedhar , Associate Professor/ ECE	Member	
14	Dr. Rana Pratap Reddy N , Principal, GAT	Invited Member	
15	Dr. H M Rajashekar Swamy , Dean, GAT	Invited Member	



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BOS ELECTRONICS AND COMMUNICATION ENGINEERING

MINUTES OF MEETING

Chairman welcomed everyone to the virtual BOS meeting.

Members were briefed with the distribution of credits, details of the subjects and also the details of emerging areas.

A draft copy of 3rd to 8th semester 2022 scheme and syllabus along with First year syllabus of Basic Electronics(23ELN13), Introduction to Electronics and Communication(23ESE141) and Introduction to Embedded system was discussed(23ECE251).

Modified Syllabus of IoT and Cloud Computing(20ECE741) was also approved.

Resolution:

1. BOS resolved 3rd to 8th semester 2022 scheme with the followings:

Sl No.	Suggestions	Action
1	Object oriented C++ to be included before data Structures in the scheme.	Object oriented syllabus is now available at 3 rd semester and Data Structures in 4 th Semester.
2.	Internet of Things offered as open elective at 6 th sem	22ECE64 – Internet of Things for non ECE students.

2. BOS resolved for the following modifications in syllabus.

Sl No	Suggestions	Action
1	Analog Electronic Circuits - Include only FET circuits in the syllabus.	Syllabus updated accordingly
2	Transducer and Instrumentation subject is changed to sensors and Instrumentation.	Syllabus modified according to the title and this is an ability enhancement course.



List of courses with percentage of syllabus revision

Sr No	Course Code	Name of the course	Percentage of Revision
1.	22ECE32	Analog Electronic Circuits	20
2.	22ECE33	Design and Analysis of Digital Circuits	40
3.	22ECE34	Network Analysis	5
4.	22ECE35	Object Oriented Programming using C++	20
5.	22ECEL37	Digital System Design Laboratory	40
6.	22ECE44	Signals and Systems	10
7.	22ECEL47	Communication Systems Laboratory	20
8.	22ECE56	Programming in Java	50
9.	22ECE62	ARM Controller (Integrated)	20
10.	22ECE63	VLSI Design	50

List of courses which focuses on Employability, Entrepreneurship and skill development

Sr No	Course Code	Name of the course
1.	22ECE42	Verilog HDL
2.	22ECE56	Programming in Java
3.	22ECE62	ARM Controller (Integrated)
4.	22ECE63	VLSI Design
5.	22ECEL67	VLSI Laboratory
6.	22ECE741	Cryptography
7.	22ECE742	Machine Learning with Python
8.	22ECE751	Wireless and Mobile Networks
9.	22ECE752	Automotive Electronics
10.	22ECE51	Engineering Economics and Management



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11.	22ECE71	Advanced VLSI
12.	22ECE72	Computer Communication Networks (Integrated)
13.	22ECEP84	Project Work Phase – II
14.	22ECES85	Technical Seminar
15.	22INT85	Internship
16.	22ECEMP68	Mini Project

List of new courses introduced as compared to previous scheme

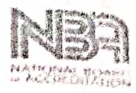
Sr No	Course Code	Name of the course
1.	22ECE45	Data Structures using C++
2.	22ECE652	Electronic Circuits with Verilog
3.	22ECE654(open elective)	Internet of Things
4.	22ECE71	Advanced VLSI
5.	22ECE754	Smart Sensors & Instrumentation
6.	22ECE823	ASIC Design
7.	22ECE831	Internet of Things and Cloud Computing
8.	22ECE832	High Performance Computer Networks
9.	22ECE51	Engineering Economics and Management

List of Elective courses (professional and open).

Sr No	Course Code	Name of the course
1.	22ECE551	Operating Systems
2.	22ECE552	Nanoelectronics
3.	22ECE553	Power Electronics
4.	22ECE554	Satellite Communication
5.	22ECE641	Speech Signal Processing
6.	22ECE642	Digital Image Processing



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7.	22ECE643	Micro Electro Mechanical Systems
8.	22ECE644	Microwave and Radar
9.	22ECE651	Communication Engineering
10.	22ECE652	Electronic Circuits with Verilog
11.	22ECE653	Microcontroller and its Applications
12.	22ECE654	Introduction to Micro Electro Mechanical Systems
13.	22ECE741	Cryptography
14.	22ECE742	Machine Learning with Python
15.	22ECE743	Optical Fiber Communication
16.	22ECE744	Biomedical Signal Processing
17.	22ECE751	Wireless and Mobile Networks
18.	22ECE752	Automotive Electronics
19.	22ECE753	Basic VLSI Design
20.	22ECE754	Smart Sensors & Instrumentation


Chairman, BOS (ECE)

1) Dr. Manjunatha. R.C Hajj

2) Ramya. K.V Q

3) Leelavathi. H.P UP

4) Dr. Hishmeelhor th

5) Mr. Ravi. J 27th



Department of Electrical and Electronics Engineering

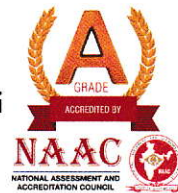


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Proceeding of the meeting of Board of Studies in Electrical and Electronics Engineering.

As per the VTU autonomous guidelines and directions from Principal & Dean (Academic) of Global Academy of Technology. Board of Studies Meeting held on 25th September 2023 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	Subject Expert 2
4	Dr. PRATHAP REDDY	Subject Expert 3
5	Dr. PARIMALA	VTU Nominee
6	Mrs. KUSUMA N	Industry representative
7	Mr. VISHWAS	A distinguished Alumnus
8	Mr. 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.
- The Syllabus of 2021 scheme from Vth – VIIIth was discussed and approved.
- Under the 2021 scheme, the lists of courses revised from the previous 2020 scheme were presented. (Annex I)
- List of courses, focussing on Employability, Entrepreneurship and Skill development were also presented, for 2021 scheme. (Annex II)
- Scheme of teaching and syllabus from IIIrd - VIIIth semester under 2022 scheme was discussed and approved.
- Under the 2022 scheme, the list of courses revised/introduced from the previous 2021 scheme were presented (Annex III)



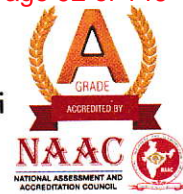
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- List of Program / Open Electives and courses, focussing on Employability, Entrepreneurship and Skill development were also presented, for 2022 scheme. (Annex IV)
- Finally, the First Year syllabus of Introduction to Electrical Engineering, Elements of Electrical Engineering and Renewable Energy Sources offered by the department., under 2023 scheme was discussed and approved.
- 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	<ul style="list-style-type: none">• In Electric circuits (22EEE34) course theorems with dependent sources can be omitted.• To include 2 open ended experiments in the Power Electronics Lab (21/22EEE52)• To take up a bridge course on Vector Analysis before the commencement of course on Electromagnetic Field Theory (21EEE542/22EEE554)	The suggestions were agreed, to be incorporated.
2	Dr. R.S GEETHA	<ul style="list-style-type: none">• To spread some portion of the Module 2 content in module 1 and module 3 in the subject Embedded Systems (21/22EEE53).• In subject Measurement and Transducers (22EEE35), Kelvin Double Bridge can be omitted	
3	Dr. PRATHAP REDDY	<ul style="list-style-type: none">• Suggested to included sample cases in teaching course on Research Methodology (21EEE55)• Suggested to reframe the title for 21EEE541/22EEE644 and include applications of Three Phase induction motor & Permanent Magnet Synchronous motors instead of DC machines under Electric Traction.• Suggested to include the application of synchronous reluctance motors (SynRM) in Module 3 and ISO Standards for EV charging in Module 5 in the course of Electric Vehicles (21/22EEE73 & 21/22EEE651)	



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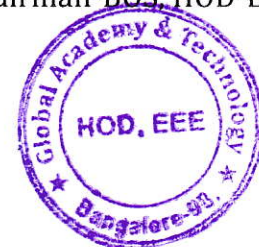
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4	Mrs. KUSUMA N	<ul style="list-style-type: none"> To include some open ended experiments in Electric Machines (22EEE32) Open ended experiments to be taken up from an industry perspective. Case Studies to be included in subjects like Smart Grid (21EEE71/22EEE81), Electrical Power Quality (21EEE741/22EEE823), Management and Economics (22EEE51) 	
5	Mr. VISHWAS	<ul style="list-style-type: none"> To include smart meters in module 2 in Measurements and Transducers(22EEE35) Case Studies to be included in subjects like Smart Grid, Power Quality(22EEE751 & 22EEE81), Management and Economics(22EEE51) 	

- 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.

Blasand
25/9/23.
Chairman-BOS, HOD-EEE, GAT



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Department of Electrical and Electronics Engineering

Attendance report for the Board of Studies Meeting held on 25th September 2023 at 10:00 am in the department of Electrical and Electronics Engineering, Global Academy of Technology, Bengaluru.

BOS MEMBERS

Sl. No.	Name	Designation	Signature
1	Dr. DEEPIKA MASAND	Chairman	<i>almasand</i> 25/9/23
2	Dr. R.S GEETHA	Subject Expert 1	<i>R.S Geetha</i> 25/9/2023
3	Dr. FELIX ORLANDO MARIA JOSEPH	Subject Expert 2	Attended Online
4	Dr. PRATHAP REDDY	Subject Expert 3	<i>P. Prathap Reddy</i>
5	Dr. PARIMALA	VTU Nominee	<i>Parimala</i> 25/9/23
6	Mrs. KUSUMA N	Industry representative	<i>Kusuma N</i> 25/09/2023
7	Mr. VISHWAS	A distinguished Alumnus	<i>Vishwas</i>
8	Mr. HEMACHANDRA REDDY K	Member convenor	<i>Hemachandra Reddy K</i> 25/09/23
9	Mr. BALAGOPAL REDDY G	Member	<i>Balagopal Reddy G</i>
10	Dr. RUMA SINHA	Member	<i>Ruma Sinha</i>
11	Mrs. NAGARATHNA K	Member	<i>Nagarathna K</i>
12	PRINCIPAL	Invited Member	<i>H.P. Rajeshwar Swamy</i>
13	DEAN	Invited Member	<i>H.P. Rajeshwar Swamy</i>



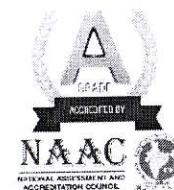
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Department of Electrical & Electronics Engineering

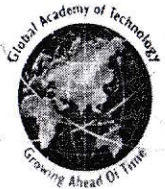
Annexure I

List of Courses Introduced/Revised 2021 Scheme



Sl. No.	Sub Code	Name of Subject	Remarks
1	21EEE34	ELECTRIC CIRCUITS	Revised by 10%
2	21EEE34	ELECTRICAL & ELECTRONICS MEASUREMENT	Revised by 15%
3	21EEE371	DATA STRUCTURES USING C	Introduced as AEC
4	21EEE472	SCI LAB FOR ELECTRICAL MACHINES	Introduced as AEC
5	21EEE473	SCI LAB FOR ELECTRICAL & ELECTRONICS MEASUREMENTS	Introduced as AEC
6	21EEE543	DIGITAL SYSTEM DESIGN USING VERILOG	Revised by 30%
7	21EEE55	RESEARCH METHODOLOGY	Introduced as Program Core
8	21EEE561	COMPUTER AIDED ELECTRICAL DRAWING	Introduced as AEC
9	21EEE562	SCI LAB FOR POWER ELECTRONICS	Introduced as AEC
10	21EEE563	ENERGY AUDIT PROJECTS	Introduced as AEC
11	21EEE61	INTERNET OF THINGS	Revised
12	21EEE644	SENSORS & TRANSDUCERS	Introduced to offer broader Scope
13	21EEE741	ELECTRICAL POWER QUALITY	Introduced as Professional Elective
14	21EEE744	RELIABILITY ENGINEERING	Introduced as Professional Elective





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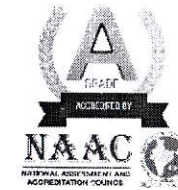
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Department of Electrical & Electronics Engineering

Annexure II

List of Elective Courses (Professional Electives/Open Electives)

2021 Scheme



Sl. No.	Sub Code	Name of Subject	Remarks
1	21EEE541	MODERN UTILIZATION OF ELECTRICAL POWER	Program Elective I
2	21EEE542	ELECTROMAGNETIC FIELD THEORY	Program Elective I
3	21EEE543	DIGITAL SYSTEM DESIGN USING VERILOG HDL	Program Elective I
4	21EEE544	OBJECT ORIENTED PROGRAMMING USING C++	Program Elective I
5	21EEE641	FACTS & HVDC	Program Elective II
6	21EEE642	ADVANCED CONTROL SYSTEMS	Program Elective II
7	21EEE643	VLSI DESIGN	Program Elective II
8	21EEE644	INTRODUCTION TO AI & ML	Program Elective II
9	21EEE651	ELECTRICAL VEHICLES	Open Elective
10	21EEE652	INDUSTRIAL AUTOMATION	Open Elective
11	21EEE741	ELECTRIC POWER QUALITY	Program Elective III
12	21EEE742	NON-LINEAR CONTROL SYSTEMS	Program Elective III
13	21EEE743	ROBOTICS	Program Elective III
14	21EEE744	RELIABILITY ENGINEERING	Program Elective III
15	21EEE751	SMART GRID TECHNOLOGY	Open Elective II
16	21EEE752	ELECTRICAL ENERGY CONSERVATION & AUDITING	Open Elective II
17	21EEE811	MICRO GRIDS	Program Elective IV
18	21EEE812	INDUSTRIAL DRIVES & CONTROL	Program Elective IV
19	21EEE813	MICRO ELECTRO MECHANICAL SYSTEMS (MEMS)	Program Elective IV
20	21EEE814	BLOCK CHAIN TECHNOLOGY	Program Elective IV
21	21EEE821	ENERGY STORAGE SYSTEMS	Program Elective V
22	21EEE822	INDUSTRIAL SERVO CONTROL SYSTEMS	Program Elective V
23	21EEE823	ELECTRICAL ENERGY CONSERVATION & AUDITING	Program Elective V
24	21EEE824	BIG DATA ANALYTICS IN POWER SYSTEMS	Program Elective V





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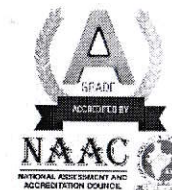
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Courses having focus on Employability/ Entrepreneurship/ Skill Development

Scheme: 2021



Sl. No	Name of the course	Course code	Employability	Entrepreneurship	Skill Development
1	C PROGRAMMING	21CSE13	YES		YES
2	PROGRAMMING IN PYTHON	21CSE23	YES		YES
3	INNOVATION AND DESIGN THINKING	21ITD39	YES	YES	
4	ELECTRICAL MACHINES - I	21EEE32	YES		
	ANALOG ELECTRONIC CIRCUITS	21EEE33	YES		YES
5	DATA STRUCTURES USING C	21EEE371	YES		YES
6	ELECTRICAL MACHINES - II	21EEE42	YES		
7	CONTROL SYSTEMS	21EEE43	YES		
8	DIGITAL LOGIC DESIGN	21EEE45	YES		YES
9	POWER SYSTEMS - II	21EEE51	YES		
10	POWER ELECTRONICS	21EEE52	YES		YES
11	EMBEDDED SYSTEMS	21EEE53	YES		YES
12	DIGITAL SYSTEM DESIGN USING VERILOG HDL	21EEE543	YES		YES
13	OBJECT ORIENTED PROGRAMMING USING C++	21EEE544	YES		YES
14	COMPUTER AIDED ELECTRICAL DRAWING	21EEE561	YES		YES
15	ENERGY AUDIT PROJECTS	21EEE563		YES	
16	INTERNET OF THINGS & ITS APPLICATION	21EEE61	YES		YES
17	POWER SYSTEMS III	21EEE63	YES		
18	VLSI DESIGN	21EEE643	YES		YES
19	INTRODUCTION TO AI & ML	21EEE644	YES		YES
20	SMART GRID	21EEE71	YES		YES

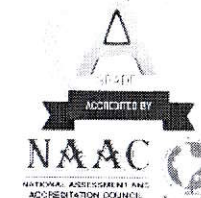


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Department of Electrical & Electronics Engineering



Annexure II

List of Courses Introduced/Revised

2022 Scheme

Sl. No.	Sub Code	Name of Subject	Remarks
1	22EEE33	ANALOG ELECTRONICS CIRCUITS	Revised by 10%
2	22EEE35	MEASUREMENTS AND TRANSDUCERS	Revised by 40%
3	22EEE36	DIGITAL LOGIC DESIGN	Revised by 30%
4	22EEE44	POWER SYSTEM I	Revised by 10%
5	22EEE45	SIGNAL AND SYSTEMS	Introduced as Program Core
6	22EEE46	DATA STRUCTURES USING C	Revised as Theory and Lab
7	22EEE51	MANAGEMENT AND ECONOMICS	Introduced as Program Core
8	22EEE56	AUTO CAD	Revised as Theory and Lab
9	22EEE71	DIGITAL SIGNAL PROCESSING	Revised by 20%
10	22EEE743	SWITCHED MODE POWER CONVERTERS	Introduced as Professional Elective
11	22EEE823	ELECTRICAL POWER QUALITY	Revised by 60%
12	22EEE824	ELECTRICAL DISTRIBUTION SYSTEMS	Introduced as Professional Elective
13	22EEE832	IMAGE PROCESSING	Introduced as Professional Elective

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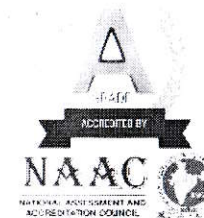


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Annexure - IV

Courses having focus on Employability/ Entrepreneurship/ Skill Development

Scheme: 2022

Sl. No	Name of the course	Course code	Employability	Entrepreneurship	Skill Development
1	C PROGRAMMING		YES		YES
2	PROGRAMMING IN PYTHON		YES		YES
3	INNOVATION AND DESIGN THINKING		YES	YES	
4	ELECTRICAL MACHINES - I	22EEE32	YES		
5	ANALOG ELECTRONIC CIRCUITS	22EEE33	YES		
6	DIGITAL LOGIC DESIGN	22EEE36	YES		YES
7	ELECTRICAL MACHINES - II	22EEE42	YES		
8	CONTROL SYSTEMS	22EEE43	YES		YES
9	DATA STRUCTURES USING C	22EEE46	YES		YES
10	MANAGEMENT & ECONOMICS	22EEE51		YES	
11	POWER ELECTRONICS	22EEE52	YES		
12	EMBEDDED SYSTEMS	22EEE53	YES		YES
13	POWER SYSTEMS II	22EEE54	YES		
14	AUTO CAD	22EEE56	YES		YES
15	OBJECT ORIENTED PROGRAMMING USING C++	22EEE551	YES		YES
16	DIGITAL SYSTEM DESIGN USING VERILOG HDL	22EEE552	YES		YES
17	INDUSTRIAL DRIVES & APPLICATIONS	22EEE61	YES		
18	INTERNET OF THINGS & ITS APPLICATION	22EEE63	YES		YES
19	ARTIFICIAL INTELLIGENCE	22EEE641	YES		YES
20	VLSI DESIGN	22EEE642	YES		YES

Sl. No	Name of the course	Course code	Employability	Entrepreneurship	Skill Development
21	MICROGRIDS	22EEE643	YES		
22	DIGITAL SIGNAL PROCESSING	22EEE71	YES		YES
23	POWER SYSTEMS IV	22EEE72	YES		
24	ELECTRIC VEHICLES	22EEE73	YES		YES
25	MACHINE LEARNING	22EEE741	YES		YES
26	ROBOTICS & AUTOMATION	22EEE742	YES		YES
27	SWITCHED MODE POWER CONVERTERS	22EEE743	YES		YES
28	SMART GRID	22EEE81	YES		YES
29	INDUSTRIAL AUTOMATION	22EEE821	YES		YES
30	ELECTRICAL POWER QUALITY	22EEE823	YES		YES
31	SOFT COMPUTING TECHNIQUES	22EEE831	YES		YES
32	IMAGE PROCESSING	22EEE832	YES		YES
33	ENERGY STORAGE SYSTEMS	22EEE834	YES		YES

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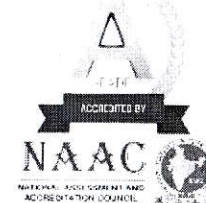


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List of Elective Courses (Professional Electives/Open Electives)

2022 Scheme

Sl. No.	Sub Code	Name of Subject	Remarks
1	22EEE551	OBJECT ORIENTED PROGRAMMING USING C++	Program Elective I
2	22EEE552	DIGITAL SYSTEM DESIGN USING VERILOG HDL	Program Elective I
3	22EEE553	ADVANCED CONTROL SYSTEMS	Program Elective I
4	22EEE554	ELECTROMAGNETIC FIELD THEORY	Program Elective I
5	22EEE641	ARTIFICIAL INTELLIGENCE	Program Elective II
6	22EEE642	VLSI DESIGN	Program Elective II
7	22EEE643	MICRO GRIDS	Program Elective II
8	22EEE644	MODERN UTILIZATION OF ELECTRICAL POWER	Program Elective II
9	22EEE651	ELECTRIC VEHICLES	Open Elective
10	22EEE652	INDUSTRIAL AUTOMATION	Open Elective
11	22EEE741	MACHINE LEARNING	Program Elective III
12	22EEE742	ROBOTICS	Program Elective III
13	22EEE743	SWITCHED MODE POWER CONVERTERS	Program Elective III
14	22EEE744	FACTS & HVDC	Program Elective III
15	22EEE751	SMART GRID TECHNOLOGY	Open Elective II
16	22EEE752	ELECTRICAL ENERGY CONSERVATION & AUDITING	Open Elective II
17	22EEE821	INDUSTRIAL AUTOMATION	Program Elective IV
18	22EEE822	MICRO ELECTRO MECHANICAL SYSTEMS	Program Elective IV
19	22EEE823	ELECTRICAL POWER QUALITY	Program Elective IV
20	22EEE824	ELECTRICAL DISTRIBUTION SYSTEMS	Program Elective IV
21	22EEE831	SOFT COMPUTING TECHNIQUES	Program Elective V

Sl. No.	Sub Code	Name of Subject	Remarks
22	22EEE832	IMAGE PROCESSING	Program Elective V
23	22EEE833	ELECTRICAL ENERGY CONSERVATION & AUDITING	Program Elective V
24	22EEE834	ENERGY STORAGE SYSTEMS	Program Elective V

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Department of Information Science & Engineering



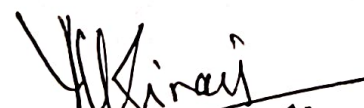
BOS Members - Department of Information Science & Engineering

Sl. No.	Designation	Name	Affiliation	Signature
01	Chairman	Dr. Kiran Y .C	Head of the Department, ISE, GAT	
02	Subject Expert 1	Dr. B.H Shekar	Professor, Dept. of Computer Science, Mangalore University, Mangalore.	— ON-LINE —
03	Subject Expert 2	Dr. V. N Manjunath Aradhya	Professor, Dept. of Computer application, JSS Science & Technology University, JSS TI Campus, Mysore,	— ON-LINE —
04	Subject Expert 3	Dr. Hareesha K. S	Professor, Dept. of Computer Application, Manipal Institute of Technology, MAHE Manipal - 576 104	— ON-LINE —
05	VTU Nominee	Dr. Sanjay H A	Prof. & Head, Ramaiah Institute of Technology, MSR Nagar, MSRIT Post, Bangalore, PIN- 560 054 Karnataka, INDIA	— ON-LINE —
06	Industry Representative	Dr. Manjunath S.	Chief Engineer, Samsung Electro-Mechanics, India Software Centre Bangalore Pvt. Limited, Bangalore	
07	Member Convenor	Dr. Manjunath S	Professor, Dept., ISE, GAT	
08	Member	Dr. Vimuktha .E. Salis	Professor, Dept., ISE, GAT	
09	Member	Dr. Asha K. H	Associate Professor, Dept., ISE, GAT	
10	Member	Prof. Indu B	Assistant Professor, Dept. ISE, GAT	
11	Invited Member	Dr. Ranapratap Reddy N	Principal, GAT	
12	Invited Member	Dr. Rajashekhar Swamy H M	Dean-Academics, GAT	— ABSENT —

Signature of the Head of Dept
Information Science & Engineering
Global Academy of Technology
Bangalore - 560098


BOS Members - Department of Information Science & Engineering

Sl. No.	Designation	Name	Affiliation	E-mail & Contact No.
01	Chairman	Dr. Kiran Y .C	Head of the Department, ISE, GAT	hodise@gat.ac.in 9448166135
02	Subject Expert 1	Dr. B.H Shekar	Professor, Dept. of Computer Science, Mangalore University, Mangalore.	bhshekar@gmail.com 7022494921
03	Subject Expert 2	Dr. V. N Manjunath Aradhya	Professor, Dept. of Computer application, JSS Science & Technology University, JSS TI Campus, Mysore, India	aradhya@jssstuniv.in 9886896108
04	Subject Expert 3	Dr. Hareesha K. S	Professor, Dept. of Computer Application, Manipal Institute of Technology, MAHE Manipal – 576 104	hareesh.ks@ieee.org 9481509128
05	VTU Nominee	Dr. Sanjay H A	Prof. & Head, Ramaiah Institute of Technology MSR Nagar, MSRIT Post Bangalore, PIN- 560 054 Karnataka, INDIA	sanjay.ha@msrit.edu 9342560303
06	Industry Representative	Dr. Manjunath S.	Chief Engineer, Samsung Electro-Mechanics, India Software Centre Bangalore Pvt. Limited, Bangalore	manjunath.shantharamu @ gmail.com 9901100736
07	Member Convenor	Dr. Manjunath S	Professor, Dept., ISE, GAT	manjunaths.dvg@gmail.com 9886033445
08	Member	Dr. Vimuktha .E. Salis	Professor, Dept., ISE, GAT	drvimuktha@gat.ac.in 9632490119
09	Member	Dr. Asha K. H	Associate Professor, Dept., ISE, GAT	asha.kh06@gmail.com 9036640167
10	Member	Prof. Indu B	Assistant Professor, Dept. ISE, GAT	Indu.b@gat.ac.in 7996362880
11	Invited Member	Dr. Ranapratap Reddy N	Principal, GAT	principal@gat.ac.in 9591510211
12	Invited Member	Dr. Rajashekhar Swamy H M	Dean-Academics, GAT	rajashekharswamy@gat.ac.in 8095503309


Signature of the Head of Dept.


Head of Department
Information Science & Engineering
Global Academy of Technology

Bangalore - 560098


Signature of the Dean
Dean Academic

Global Academy of Technology,
Rajarajeshwarinagar, Bengaluru-98

Rajarajeshwari Nagar, Bengaluru - 560 098 Karnataka. INDIA


Signature of the Principal
PRINCIPAL

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

Rajarajeshwari Nagar, Bangalore-560 098



GLOBAL ACADEMY OF TECHNOLOGY

(An Autonomous Institute under VTU, Belagavi, Approved by AICTE and Government of Karnataka)

Ideal Homes Township, Rajarajeswari Nagar, Bengaluru – 560 098

Department of Information Science and Engineering

(Accredited by NBA 2022-2025)



Meeting Date	30 th September 2023	Mode of Meeting	Blended Mode
Meeting start and end time	10:00 am -12:00 pm	Meeting Chair	Dr. Kiran Y .C Chairman-BOS (ISE)
Meeting Organizer / Convenor	Dr. Manjunath S Convenor-BOS(ISE)	Meeting Title	Board of Studies Meeting – 2022-23 Scheme and Syllabus (NEP) from 3 rd Sem to 8 th Sem.
Meeting scribe	Dr. Asha K H	Drafted Date	05 October 2023

Attendees	Apologies
Refer Attendance sheet enclosed.	Dr. Rajashekhar Swamy H M, Dean-Academics, GAT Bengaluru.

Meeting agenda:

- 1) Welcome by Dr. Kiran Y C, Prof & Head Dept. of ISE
- 2) Presentation by HoD-ISE
 - Dissemination of Vision & Mission of the department
 - Presentation of 2022-23 Scheme & Syllabus (NEP – draft copy) from 3rd Sem to 8th Sem , Presentation of 2023-24 Scheme from 3rd Sem to 8th Sem
- 3) Any other matter with the permission of the chair
- 4) Vote of thanks by Dr. Kiran Y C

Deliberations of the Meeting

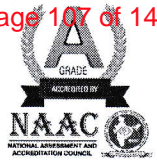
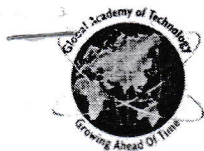
1. Dr. Kiran Y C, Professor & HoD ISE in the presence of the Honourable Chairs' welcomed all the esteemed members of BoS.
2. Vision and Mission of ISE was disseminated.
3. HoD-ISE and Chairman BoS Dr. Kiran Y .C presented the scheme syllabus, course objectives, course outcomes and textbooks for 2022-23(3rd Sem to 8th Sem).
4. External and Internal members discussed and gave their opinion for the course syllabus proposed in the presence of the Honourable Chair.
5. After discussion and deliberation the BoS members approved the Scheme and Syllabus of the first NEP Batch.
6. After the presentation of draft copy for 2022-23 scheme and syllabus, all the members give their valuable feedback with modification with respect to Program core, Professional Elective and open electives.
7. Dr. Kiran Y .C concluded the BOS meeting by proposing vote of thanks.

Suggestions by External Members			
No	External Member Name	Suggestions by External Members	Remarks / Responses by the Honourable Chairs'
1	Dr. B.H Shekar	<ul style="list-style-type: none"> Advised to introduce the basic subjects as open electives like Introduction to AI, Introduction to DBMS, or any programming related subject to non CS/IS students. 	<ul style="list-style-type: none"> Dr Kiran Y .C acknowledged to have re-look into the all the suggestions given by members. All other internal members are acknowledged to have a discussion to incorporate the suggestions.
2	Dr. V. N Manjunath Aradhya	<ul style="list-style-type: none"> Ask the clarification of 3rd and 4th Sem Desecrate Mathematics System subjects. Suggest to include the application related concepts which are related to ISE program. 	
3	Dr. Manjunath S.	<ul style="list-style-type: none"> Advised to remove the Agile methods from the subject Software Engineering. As the students must know about all the fundamentals related to software engineering. Advised to include the case studies in SE subject to understand the fundamentals of Software Development Life Cycle. 	
4	Dr. Hareesha K. S	<ul style="list-style-type: none"> Suggested to include the ARM processor in the 3rd sem subject in Digital Systems and Computer Organization. Advised to create a channel or vertical for professional electives it will help the students learn the subjects which are in line with a specific field or vertical. 	
5	All Committee members	<ul style="list-style-type: none"> Suggested to syllabus or some contents in the modules in line with the industry requirements. Suggested to include courses which mainly focus on employability, entrepreneurship and skill development which helps the department to make the students industry ready. 	
6	Dr. Sanjay H A.	<ul style="list-style-type: none"> Advised to remove the subject Operational Techniques in the 8th semester. 	

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



Department of Mechanical Engineering



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

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

Date: 20-12-2023

Venue: Conference Hall, GAT / Google Meet link: <https://meet.google.com/pie-otrc-hai>

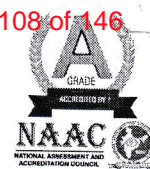
Meeting time: 02:00 pm

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, B Bangalore	bharatisha@rvce.edu.in 9538288686	
05	Industry representative	Mr. Pradeep Kallur Cofounder & Managing Director, Medini Technologies	pradeep@medini.in 99000 81006	- AB -
06	Member convenor	Dr. Ravi Kumar D V Prof. Dept. of ME	ravikumardv@gat.ac.in 9986579555	
07	Member	Dr. Prashanth T Prof. Dept. of ME	prashanth.t@gat.ac.in 9886029956	
08	Member	Dr. V. Ravi Kumar Assoc. Prof. Dept. of ME	v.ravikumar@gat.ac.in 9341865545	
09	Member	Dr. Shreekala N Assoc. Prof. Dept. of ME	shreekala.n@gat.ac.in 9980676867	
10	Invited member	Dr. N Ranaprathap Reddy Principal / HoD, ME	principal@at.ac.in 9591510211	
11	Invited member	Dr. Rajashekar Swamy H M Dean Academics	dean@gat.ac.in 9591919631	

Meeting Minutes

The meeting began at 02:00 PM on 20th December 2023, with Dr. N Ranaprathap Reddy, Principal, HoD, ME and the Chairman, BoS welcoming all attendees. He emphasized the critical role of continuous curriculum improvement in producing well-rounded and industry-ready graduates.



The detailed discussions under each agenda item are summarized below, reflecting the depth of analysis, constructive feedback, and suggestions provided by the board members and external experts.

Meeting Summary

Agenda 1: Review of the Scheme and Syllabus for the 2021 Scheme

Dr. Ranapratap Reddy, Principal & Head of Department (HoD), initiated the discussion about the importance of having a curriculum embedded with the latest technologies. Dr. Bharat V, Professor provided a comprehensive overview of the existing curriculum. He highlighted key modifications to the 2021 scheme, such as updated core subjects, elective options, and practical components. The board engaged in a detailed discussion, focusing on ensuring that the curriculum aligns with current industry trends and international standards. Suggestions were made to enhance practical elements in certain courses.

Agenda 2: Presentation and Discussion of Newly Introduced Subjects and Ability Enhancement Courses in 2022 Scheme

Dr. Prashanth T presented the newly introduced subjects, elucidating their relevance and alignment with departmental objectives. The board engaged in an in-depth discussion, providing constructive feedback and suggesting minor modifications to course content. Emphasis was placed on the practical applicability of these subjects to prepare students for real-world challenges.

Dr. Rajasekhar Swamy, Dean Academics introduced the concept of Ability Enhancement Courses and discussed their role in enhancing students' overall skills, including communication, critical thinking, and problem-solving. The board discussed the integration of these courses into the curriculum and their alignment with industry needs.

The list of new courses introduced.

Sl.no	Subject Code	Subject Name
1	22MED553	Automotive Engineering & Hybrid Vehicle Technology
2	22MED641	Renewable Energy Technologies
3	22MED742	Tribology
4	22MED81	Supply Chain Management
5	22MED834	Non-Traditional Machining

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

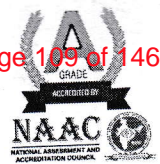
A wide range of elective course options and the criteria for students to select electives was presented. The board appreciated the flexibility offered to students and discussed ways to further enhance the elective selection process, ensuring it aligns with individual career goals and industry demands.



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Design	Thermal	Manufacturing	Multi-disciplinary & Management
Design for Manufacturing & Assembly (22MED551)	Energy, Environment and Sustainable Development (22MED552)	Product life cycle management (22MED554)	Research Methodology (22MED642)
Design for transmission Elements (22MED643)	Automotive Engineering & Hybrid Vehicle Technology (22MED553)	Operations Research (22MED823)	Python for Data Science (22MED644)
Control Engineering (22MED741)	Renewable Energy Technologies (22MED641)	Smart Materials & MEMS (22MED831)	Internet of Things (21MED744)
Tribology (22MED742)	Computational Fluid Dynamics (22MED742)	Non-Traditional Machining (22MED834)	Artificial Intelligence (22MED824)
Theory of Elasticity (22MED821)	Thermal Management of Electronic Equipment (22MED822)	Mechanics of Composite Materials (21MED842)	Total Quality Management (22MED833)

Agenda 4: Review of Courses That Have Undergone Revision in 2022 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.	Computer Aided Modelling and GD&T	3	50
2.	Modeling and 3D printing (Ability enhancement course)	3	50
3.	Mechanical measurements and metrology	4	20
4.	Material Science & Metallurgy	3	40
5.	Automation through hydraulics and pneumatics (AEC)	4	50
6.	Management & economics	5	30
7.	Automotive Engineering and Hybrid Vehicle technology	5	30
8.	Refrigeration and Air Conditioning	7	40
9.	Control Engineering	7	20
10.	NON-TRADITIONAL MACHINING	4	100
11.	Renewable Energy Technologies	6	100
12.	Tribology	7	100
13.	Supply Chain Management	8	100

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

The courses designed to enhance students' employability, entrepreneurial skills, and overall skill development are presented. The board provided suggestions to further strengthen these courses, with a particular focus on practical aspects of entrepreneurship.

Dean highlighted that the addition of Ability Enhancement Courses has led to an increase in the number of courses contributing to skill development within the



curriculum compared to the previous scheme. This was seen as a positive step towards producing well-rounded graduates.

List of 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, Mechatronics, Smart Materials & MEMS, Refrigeration & Air Conditioning, Computational Fluid Dynamics, Quantitative Techniques
List of 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.
List of 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.

Agenda 6: Number of Certificate/Diploma Programs Introduced Year-Wise During the Last Five Years

Data on the certificate programs / value-added programs introduced in the previous year was presented and similar courses were proposed for the current AY. The information demonstrated the department's commitment to providing holistic education, which was appreciated by the board.

- 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

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

- Constitution of India and Professional Ethics (22CIP17/27)
- Universal Human Values (22UHV57/66)
- Environmental Science (22CIV57/66)
- Energy, Environment and Sustainable Development (22MED542)
- Innovation and Design Thinking (22IDT16/26)



Agenda 8: Discussion on Feedback from Stakeholders on the Curriculum

Dr. Bharat Vinjamuri produced the analysis summarized feedback received from various stakeholders and proposed actions based on the feedback. The board discussed the implementation of these suggestions and emphasized the importance of continuous improvement.

Suggestions from stakeholders

- Emphasis on practical learning
- Integration with industry
- Keeping pace with technology
- Promote skill diversity.
- IT Skills
- Field Visits
- Internship & Seminar
- Human Values, Env. Sciences

Agenda 9: Feedback and Suggestions from Faculty and Experts

The faculty and external experts expressed their valuable feedback and suggestions on the curriculum which were presented in the form of action points. Dr. Bharathish, Dr. Yogesha and Dr. Jagannath Gupta shared their experiences and recommendations, highlighting the significance of incorporating practical application and industry internships into the curriculum. The discussion was lively and enriched by diverse perspectives.

Meeting Actions:

Suggested Changes During the BoS Meeting

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."

These actions will be tracked and discussed in subsequent Board of Studies meetings to ensure effective implementation and continuous improvement of the Mechanical Engineering curriculum at Global Academy of Technology.

Dr. N. Ranaprathap Reddy, Principal of Global Academy of Technology, reiterated the importance of collaborative efforts to continuously enhance the quality of education provided by the Mechanical Engineering Department. He encouraged everyone to remain engaged in the ongoing improvement process and to maintain open lines of communication for the betterment of the curriculum.

HoD,ME

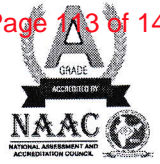
Head of Department
Mechanical Engineering
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Bangalore - 98



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

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

Date: 20-12-2023

Venue: Conference Hall, GAT / Google Meet link: <https://meet.google.com/pie-otrc-hai>

Meeting time: 02:00 pm

AGENDA

- Agenda 1:** Review of the Scheme and Syllabus for the 2022 Scheme
Agenda 2: Presentation and Discussion of Newly Introduced Subjects and Ability Enhancement Courses in 2022 Scheme
Agenda 3: Presentation of Elective Course Options and Criteria for Selecting Electives
Agenda 4: Review of Courses That Have Undergone Revision in 2022 Scheme
Agenda 5: Courses Addressing Employability, Entrepreneurship, and Skill Development
Agenda 6: Number of Certificate/Diploma Programs Introduced Year-Wise During the Last Five Years
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: 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, B Bangalore	bharatish@rvce.edu.in 9538288686	
05	Industry representative	Mr. Pradeep Kallur Cofounder & Managing Director, Medini Technologies	pradeep@medini.in 99000 81006	- AB -
06	Member convenor	Dr. Ravi Kumar D V Prof. Dept. of ME	ravikumardv@gat.ac.in 9986579555	
07	Member	Dr. Prashanth T Prof. Dept. of ME	prashanth.t@gat.ac.in 9886029956	
08	Member	Dr. V. Ravi Kumar Assoc. Prof. Dept. of ME	v.ravikumar@gat.ac.in 9341865545	
09	Member	Dr. Shreekala N Assoc. Prof. Dept. of ME	shreekala.n@gat.ac.in 9980676867	
10	Invited member	Dr. N Ranaprathap Reddy Principal / HoD, ME	principal@at.ac.in 9591510211	
11	Invited member	Dr. Rajashekar Swamy H M Dean Academics	dean@gat.ac.in 9591919631	

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

Re: Invitation to Attend Board of Studies Meeting on 20-12-2023

Pradeep Kallur <pradeep@medini.in>

Tue 12/19/2023 3:42 PM

To:HOD, Mechanical Engineering Dept <hodmech@gat.ac.in>

Cc:Principal GAT <principal@gat.ac.in>;Dean, Global Academy of Technology <dean@gat.ac.in>

Dear sir,

Thank you for the invitation. Will be glad to attend the meeting, as discussed I am out of station, will be attending the meeting online. Kindly do the needful for the same.

On Tue, Dec 19, 2023 at 2:52 PM HOD, Mechanical Engineering Dept <hodmech@gat.ac.in> wrote:

Dear Mr. Pradeep Kallur Sir,

On behalf of Global Academy of Technology, I am writing to extend a cordial invitation to you as the Co-founder & Managing Director of Medini Technologies, Bangalore, to our upcoming Board of Studies meeting.

Date: 20-12-2023

Time: 2:00 PM

Location: Conference Hall, Global Academy of Technology

Your insights and expertise would be invaluable in our discussions, and we believe your participation will significantly contribute to the success of the meeting. As a prominent figure in the field, your perspectives on industry trends and technological advancements will be greatly appreciated.

The agenda will include discussions on various facets pertinent to the academic and technological landscape, aiming to foster collaborations and further enhance our educational offerings.

We sincerely hope that you will be able to grace us with your presence.

Thank you for considering this invitation. Should you have any queries or require further information, please do not hesitate to contact us.

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

Warm regards,

Dr. Bharat Vinjamuri

Regards,

Pradeep Kallur,
Managing Director

M: 09900081006 O: 080-23301005

H.O: #2943/E, Opp Maruthi Mandir, Vijayanagara, Bengaluru, Karnataka, INDIA.

www.medini.in

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Re: Invitation to Board of Studies Meeting on 20-12-2023

Page 115 of 146

Jagannatha Guptha V L <jagannathagvl@rvce.edu.in>

Tue 12/19/2023 4:32 PM

To:HOD, Mechanical Engineering Dept <hodmech@gat.ac.in>

Cc:Principal GAT <principal@gat.ac.in>;Dr. Rajashekhar Swamy H M, Dean Academics <rajashekharswamy@gat.ac.in>

Dear sir,

Thanks for the invitation and I will be there at the scheduled time.

Regards

Dr. V L Jagannatha Guptha

Dept. of Mechanical Engineering

RV College of Engineering, Bengaluru 59

Mobile: 9243447122

On Tue, Dec 19, 2023 at 3:04 PM HOD, Mechanical Engineering Dept <hodmech@gat.ac.in> wrote:

Dear Dr. Jagannath Gupta Sir,

Greetings of the day

As an esteemed Associate Professor in the Department of Mechanical Engineering at R V College of Engineering, Bangalore, your expertise and perspective are highly esteemed. It is with great pleasure that I extend this invitation to you.

We are organizing a Board of Studies meeting:

Date: 20-12-2023

Lunch: 1:00 PM

Meeting Time: 2:00 PM

Location: Global Academy of Technology

Your esteemed presence at the meeting is eagerly awaited. Your invaluable insights and contributions will play a crucial role in shaping discussions regarding the academic curriculum and technological advancements in Mechanical Engineering.

Prior to the meeting, we would be honored to have you join us for lunch at 1:00 PM. This informal gathering will provide an excellent opportunity for networking and informal discussions among esteemed colleagues.

If you require any further information or have any inquiries about the schedule or agenda, please do not hesitate to contact us.

Thank you for considering this invitation. We sincerely hope to have the pleasure of your company at both the luncheon and the Board of Studies meeting.

Warm regards,

Dr. Bharat Vinjamuri

Invitation to Attend Board of Studies Meeting on 20-12-2023

Dr. Bharat Vinjamuri <bharat.vk@gat.ac.in>

Tue 12/19/2023 2:39 PM

To: bharatisha@rvce.edu.in <bharatisha@rvce.edu.in>

Cc: Principal GAT <principal@gat.ac.in>; Dr. Rajashekhar Swamy H M, Dean Academics <rajashekharswamy@gat.ac.in>

Dear Sir,

I trust this message finds you well. As a VTU Nominee and esteemed Professor from the Department of Mechanical Engineering at R V College of Engineering, Bangalore I am pleased to extend a special invitation to you.

We are organizing a pivotal Board of Studies meeting on:

Date: 20-12-2023

Time: 2:00 PM

Location: Conference Hall, Global Academy of Technology

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 the realm of Mechanical Engineering.

This meeting aims to discuss various vital aspects that will shape the educational landscape and strengthen our academic programs. Your contribution to these deliberations would be greatly appreciated.

Should you require any further details or have any inquiries regarding the meeting, please feel free to reach out to us.

Thank you for considering this invitation. We eagerly anticipate the honor of your presence at the Board of Studies meeting.

Warm regards,

Thanks and Regards

Dr. Bharat Vinjamuri

Professor,

Dept. of Mechanical Engineering,

Global Academy of Technology,

Bangalore - 560098

Landline: +91 -80 -28603158; Ext - (602)

Mobile: 9986579555

Website - www.gat.ac.in

Vision of Dept. of ME @ GAT

Become one of the leading providers of education in Mechanical Engineering with emphasis on research, development and innovation for the benefit of society

Dr. Yogesha K B <yogeshakb@jssateb.ac.in>

Tue 12/19/2023 3:55 PM

To:HOD, Mechanical Engineering Dept <hodmech@gat.ac.in>

Cc:Principal GAT <principal@gat.ac.in>;Dr. Rajashekhar Swamy H M, Dean Academics <rajashekharswamy@gat.ac.in>

Dear sir,

I accept your invitation. I will be there on time.

Regards

On Tue, 19 Dec, 2023, 2:56 pm HOD, Mechanical Engineering Dept, <hodmech@gat.ac.in> wrote:

Dear Dr. Yogesha Sir,

I trust this message finds you well. As an esteemed Professor at JSS Academy of Technical Education, Bangalore, your expertise and insights are highly regarded in our academic community. It is with great pleasure that I extend an invitation to you.

We are hosting a Board of Studies meeting on:

Date: 20-12-2023

Time: 2:00 PM

Location: Conference Hall, Global Academy of Technology

Your esteemed presence at the meeting is highly anticipated. Your valuable contributions and perspectives will significantly influence the discussions, especially regarding the academic landscape and technological advancements in our field.

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.

Should you require any further information or have inquiries regarding the logistics or agenda, please feel free to reach out to us.

Thank you for considering this invitation. We eagerly look forward to your presence at both the luncheon and the Board of Studies meeting.

Warm regards,

Dr. Bharat Vinjamuri



GLOBAL ACADEMY OF TECHNOLOGY


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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
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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. Prashanth T	prashanth.t@gat.ac.in	9886029956
08	Member		Dr. V. Ravi Kumar	v.ravikumar@gat.ac.in	9341865545
09	Member		Dr. Shreekala N	shreekala.n@gat.ac.in	9980676867
10	Invited member	Principal	Dr. N Ranaprathap Reddy	principal@gat.ac.in	9591510211
11	Invited member	Dean Academics	Dr. Rajashekara Swamy H M	dean@gat.ac.in	9591919631


Signature of the HoD


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

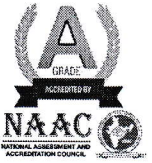


GLOBAL ACADEMY OF TECHNOLOGY

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



30-12-2023

The following were the changes made in the 2022 Scheme and Syllabi as suggested by BoS Members during the meeting held on 20-12-2024

Changes in III semester courses

- Strength of Materials (22MED32): Introduced to deflections (Theory)
- Manufacturing Process (22MED33): Removed theory related to shaping machine
- Material Science & Engineering (22MED35): Change of title to Material Science & Engineering instead of Material Science & metallurgy.
- 3D Printing (22MED36): Change of title from 'Modelling and 3D Printing' to 'Fundamentals of 3D Printing.'

Changes in IV semester courses

- Mechanical Measurements & Metrology (22MED42): Added GD&T as a separate module.
- Mechatronics (22MED43): Changed the title of Module 5 to Introduction to IoT
- Thermodynamics(22Med45): Removed the use of Steam tables in Pure Substance and numerical will be only on Otto and Diesel cycles only.
- Automation through Hydraulics and Pneumatics(22MED46): Added scheme of examination.
- Machine shop(22MEDL47): Analysis-based types of chips, machining parameters, and surface finish were included.

Changes in V semester courses

- Design of Machine Elements(22MED53): Introduced fatigue with simple numerical, Removed the chapter on power screws.
- Design for Manufacturing & Assembly(22MED551): Reduced the content in all modules

Changes in VI semester courses

- Tribology(22MED742): Included applications of Tribology in Module 4: Bio Tribo / nano tribology and green tribology and increased the wear concepts in module 2.
- R&AC(22MED73): Changed the topic name of the last module to Introduction to HVAC

Changes in VII semester courses

- Composite Material Technology (22MED832): Changed the title from Mechanics of Composite Materials to Composite Material Technology.
- Smart materials and MEMS (22MED831): Rename case studies in module 5 as applications

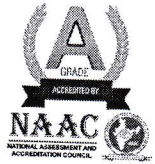


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Sl.No.	Designation	Members	Email	Signature
01	Chairman	Dr. Bharat Vinjamuri, Prof. & HoD, Dept. of ME	hodmech@gat.ac.in bharat.vk@gat.ac.in 9986579555	
02	Subject Expert 1	Dr. Jagannath Gupta Assoc. Prof., Department of ME, R V C E, Bangalore	jagannathagvl@rvce.edu.in 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, B 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. Prashanth T Prof. Dept. of ME	prashanth.t@gat.ac.in 9886029956	
08	Member	Dr. V. Ravi Kumar Assoc. Prof. Dept. of ME	v.ravikumar@gat.ac.in 9341865545	
09	Member	Dr. Shreekala N Assoc. Prof. Dept. of ME	shreekala.n@gat.ac.in 9980676867	
10	Invited member	Dr. N Ranaprathap Reddy Principal / HoD, ME	principal@at.ac.in 9591510211	
11	Invited member	Dr. Rajashekar Swamy H M Dean Academics	dean@gat.ac.in 9591919631	



Department of Basic Science and Humanities

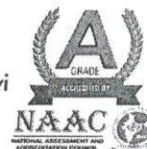


Global Academy of Technology

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NBA Accredited CSE, CV, ECE, EEE, ISE and ME Programmes



DEPARTMENT OF SCIENCE & HUMANITIES

MINUTES OF THE BOS(PHYSICS) ONLINE MEETING HELD ON 14 SEPTEMBER 2023 AT 3.15PM.

Subject: Applied Physics(integrated) for CSE, ME, Civ, EE streams
(23PHY12A/22A, 23PHY12B/22B, 23PHY12C/22C, 23PHY12D/22D)

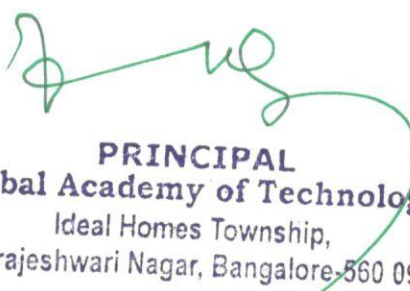
- The BOS member Dr N V Raju greeted all the members for the online meeting.
- The discussion took place considering module by module.
- The general opinion of the members was to reduce the content in the draft syllabus.
- Ten experiments prescribed in the syllabus is common for all streams.

Applied Physics for CSE, EE stream. (23PHY12A/22A, 23PHY12D/22D)




- Module 1:
 - The word LASER action to be replaced by lasing action.
 - Application of LASER in CD drive to be removed.
- Module 2:
 - No changes
- Module 3:
 - One hour extra is required to complete the module to be compensated with the time allotted for other modules.
- Module 4:
 - The topic on dielectrics needs to be removed as it cannot be completed in the stipulated period.
- Module 5:
 - No change
- Recent edition books to be included.
- Course Outcome 1
 - To be changed to “Apply the concepts of LASERs and optical fibers and their applications”.

Applied Physics for ME, CIV stream.
(23PHY12B/22B, 23PHY12C/22C)

- Module 1:
 - No change
 - Module 2:
 - No change
 - Module 3:
 - No change
 - Module 4:
 - Reduce the content in the natural hazards by removing the part on 'landslide'.
 - Module 5:
 - No change.
 - Recent edition books to be included.
-
- 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.



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Ideal Homes Township,
Rajarajeshwari Nagar, Bangalore-560 098

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	VTU - Nominee	← online →
03	Dr Kamsali Nagaraj Professor Department of Physics Bangalore University, Bengaluru-560056	Member	← online →
04	Dr N V Raju Professor & HOD Department of Physics Global Academy of Technology Rajarajeshwarinagar Bengaluru-560098	Member	N.V. Raju
05	Dr Mahesh D Associate Professor Department of Physics Global Academy of Technology Rajarajeshwarinagar Bengaluru-560098	Member	
06	Dr Rajashekar Swamy H M Dean, Academics Global Academy of Technology Rajarajeshwarinagar Bengaluru-560098	Invited Member	

GLOBAL ACADEMY OF TECHNOLOGY
(An autonomous institution under VTU)
DEPARTMENT OF SCIENCE & HUMANITIES

MINUTES OF BOS MEETING

MINUTES OF THE BOS MEETING OF CHEMISTRY IN ONLINE MODE

Meeting of all members of BOS were called by BOS member, GAT, Dr. N.Suma, Professor & HOD, Chemistry to discuss about autonomous syllabus of Applied Chemistry stream wise(Integrated) of Global Academy of Technology, Bengaluru.

MEETING DATE: 15th September 2023 (Friday)

TIME : 12.00 Noon

FACILITATOR : MICRO SOFT TEAMS

BOS Members Present:

Sl.No.	Name	Designation
		VTU - Nominee
1	Dr. C. Shivakumara Principal Scientist Solid State and Structural Chemistry Unit Indian Institute of Science Bengaluru	External member
2	Dr RamakrishnappT Professor & HOD Department of Chemistry BMSIT Bengaluru	External Member
3	Dr N Suma Professor & HOD Department of Chemistry Global Academy of Technology Bengaluru	Internal Member
4	Dr Adarsha JR Associate Professor Department of Chemistry Global Academy of Technology Bengaluru	Internal Member

Agenda: To discuss Integrated syllabus of Applied Chemistry stream wise (CSE, EEE, ME & CV) 23CHE12A/22A,23CHE12B/22B,23CHE12C/22C & 23CHE12D/22D for I/II sem batch 2023-24

The BOS member Dr N Suma welcomed all the members for the online BOS meeting

The following points were discussed by the committee during meeting:

- The discussion was done module wise.
- The general opinion of the members was to introduce self-study component after each module.
- Suggestion to reduce some topics under module 5 of CV stream.

Applied Chemistry for CSE, EE stream. (23CHE12A/22A, 23CHE12D/22D)

➤ **MODULE 1:**

Self-study component:

Construction & working of Zinc Air battery.

➤ **MODULE 2:**

Self-study component:

Doping-Definition & methods.

➤ **MODULE 3:**

Self-study: Galvanic series & Concept of biosensors.

➤ **MODULE 4:**

❖ **Inclusion Polymer Composite topic** Kevlar Fibre and Carbon fibre- Synthesis, Properties & applications.

❖ Self-study component

Concepts of Nano Polymer composites.

➤ **MODULE 5:**

Self-study: Importance of Global warming & Rain water harvesting.

Applied Chemistry for CV, MR stream. (23CHE12B/22B, 23CHE12C/22C)

➤ **MODULE 1:**

Self-study component:

Construction & working of Zinc Air battery

➤ **MODULE 2:**

Self-study component:

Galvanic series & Concept of biosensors

➤ **MODULE 3:**

Self-study:

Composition, properties & industrial applications of Alnico, gun metal & bell metal.

➤ **MODULE 4:**

Self-study component

Preparation & utilization of methanol blended diesel in automobile industry

➤ **MODULE 5:**

❖ Reduce the topic under Water technology

❖ Self-study:

Concept of Polymer nano composites & ceramic metal composites

Practical module: No changes recommended

Meeting was adjourned at 1 PM by vote of thanks by BOS internal member
Dr Adarsha J.R, Associate Professor, Global Academy of Technology, Bengaluru.



16.9.23

HOD

**Department of Chemistry
Global Academy of Technology
Bengaluru - 560 098.**



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

"ವಿ ಟಿ ಯು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ.

Visvesvaraya Technological University

(State University of Government of Karnataka Established as per the VTU Act, 1994)

"Jnana Sangama" Belagavi-590018, Karnataka, India



Dr. B. E. Rangaswamy Ph.D

REGISTRAR

Phone: (0831) 2498100

Fax: (0831) 2405467

Ref No. VTU/Aca/Auto/ A5/2023-24/ 1229

Date: 06 JUN 2023

To,

Dr. Ramkrishnappa T
Professor and HoD,
Department of Chemistry
BMS Institute of Technology & Management
Bengaluru-560064.
t.ramakrishnappa@bmsit.in

Sir,

Sub: Nomination to the Board of studies (Chemistry) of Global Academy of Technology, Bengaluru.(Autonomous) from 01-06-2023 to 31/05/2026.
Ref: Hon'ble Vice Chancellor approval dated 01-06-2023

With reference to the above, I am pleased to nominate you as the Nominee of Visvesvaraya Technological University, Belagavi, to the "Board of studies (Department of Chemistry)" of Global Academy of Technology, Bengaluru. (Autonomous).

You are requested to accept the same and attend the meetings of the Board of studies (Department of Chemistry) of the college as and when requested by the Principal of the college.

Further, ensure that the views and guidelines of the University are duly taken into account in the deliberations and decisions of the Board of Studies.

As per the VTU Statutes, the following are functions of the Board of Studies are as follows:

- 1) Prepare syllabi for various courses keeping in view the objectives of the College, interest of the stakeholders and State/National requirements for consideration and approval of the Academic Council;
- 2) Suggest methodologies for innovative teaching, learning and evaluation techniques;
- 3) Suggest panel of names of experts to the Academic Council for appointment as examiners;



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

"ವಿ ಟಿ ಯು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ, ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ

Visvesvaraya Technological University

(State University of Government of Karnataka Established as per the VTU Act, 1994)

"Jnana Sangama" Belagavi-590018, Karnataka, India



Dr. B. E. Rangaswamy Ph.D
REGISTRAR

Phone: (0831) 2498100
Fax: (0831) 2405467

Ref No. VTU/Aca/Auto/ A5/2023-24/ 1229

Date: 6 JUN 2023

- 4) Coordinate research, teaching, extension and other academic activities in the Departments/College and
- 5) Any other function that may be assigned by the Academic Council.

After every meeting, you are requested to submit a report to the undersigned immediately.

Thanking you,

Yours faithfully,

R. S. 06/06/23 BE

REGISTRAR

Copy Fwc`s to:

The Principal, Global Academy of Technology, Bengaluru., with request to send meeting notices of the Board of studies to **Dr. Ramkrishnappa T.**, from time to time. Please note that the TA/DA/Hospitality of V.T.U Nominee for attending Board of studies (Chemistry) meetings have to be borne by your college.



Meeting of all members of Board of Studies (Mathematics)

Meeting Chair: Dr. Anil P N, Chairman, BOS (Mathematics)

30th August 2023, Meeting time: 2:30 pm

Online Meeting:

<https://us02web.zoom.us/j/86754188736?pwd=RU91YTgrODVmUW1FUGNxbnZKNHFBUT09>

Meeting ID: 867 5418 8736

Passcode: 8MXKq6

Meeting Minutes

A meeting of members of Board of Studies (Mathematics) was called on 30th August 2023. The meeting commenced at 2:30 pm with the Chairman – BOS (Mathematics) greeting all the members.

The following are the minutes of the meeting


- The draft syllabus for 1st to 7th semester mathematics was presented to all the members present for their suggestions and subsequent approval.
- After discussions and deliberations, the syllabus was approved in the present form with inclusion of central limit theorem for IT branches under the respective module.


The courses for which syllabus was finalized and approved are

2023 Scheme	2022 scheme		2021 scheme
23MAT11 (for all streams)	22MAT31A	22MAT41A	21MAT55
23MAT21 (for all streams)	22MAT31B	22MAT41B	21MAT661
23MCS11 (for FY MTech (CSE))	22MAT31C	22MAT41C	21MAT662
	22MAT31D	22MAT41D	21MAT663
	22MAT31E	22MAT41E	21MAT761

- The courses in which revision of syllabus is carried out is 21MAT662, there is 40% revision in the syllabus as compared to 20MAT662 of previous scheme.
- The new course introduced is 21MAT663 (Integral Transforms) for 6th semester as an open elective for all the branches except for ECE, EEE, CV, ME.
- Chairman-BOS(Mathematics) informed all the members that the final syllabus will be communicated to all the members by mail.

The meeting concluded with a thanks note from the Chair of the meeting.


Chairman - BOS(Mathematics)
HEAD OF THE DEPARTMENT
Dept. of Mathematics
Global Academy of Technology
Rajarajeshwari Nagar, Bangalore - 98


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

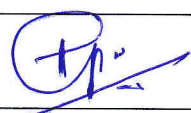
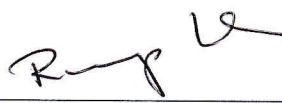






GLOBAL ACADEMY OF TECHNOLOGY

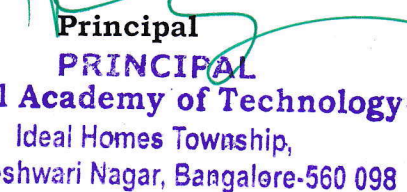
Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru – 560 098
Tel: +91 80 28603158, Fax: 28603157, Email: info@gat.ac.in Web: www.gat.ac.in

30/08/2023

BOS Meeting

Sl. No.	Name	Signature
01	Dr. Anil P Narappanavar, Chairman, BOS (Mathematics)	
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, Associate Professor, Department of Mathematics, GAT, Bengaluru	
07	Dr. Shashikala S, Assistant Professor, Department of Mathematics, GAT, Bengaluru	
08	Dr. Rajashekhar Swamy H M, Dean Academics – Invited Member	


Chairman – BOS (Mathematics)
HEAD OF THE DEPARTMENT
Dept. of Mathematics
Global Academy of Technology
Rajarajeshwari Nagar, Bangalore - 98


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



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: 11th March 2024 Time: 03:00 PM to 04:30 PM

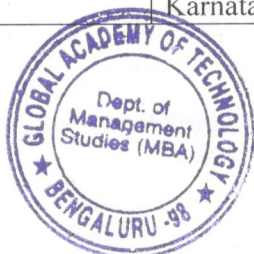
Round 2 - Date of Meeting: 18th March 2024 Time: 05:30 PM to 06:45 PM

Venue (Internal): *Conference Hall, Placement Block*

Venue (External): *Online (Platform: Microsoft Teams)*

Members of the Board Studies

Sl. No.	Name	Designation	Status
1	Dr. N. Ranapratap Reddy	Principal, Global Academy of Technology, Bengaluru, Karnataka	Present
2	Dr. Rajashekar Swamy	Dean (Academics), Global Academy of Technology, Bengaluru, Karnataka	Present
3	Dr. N. Venkatesh Kumar	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 11.03.24
5	Dr. Ramesh A	Member, Professor, Indian Institute of Technology, Roorkee, Uttarakhand	Online 11.03.24
6	Dr. Bipin Kumar Dixit	Member, Associate Professor, Indian Institute of Management, Trichy, Tamilnadu	Online 11.03.24
7	Mr. Pravin Hungund	Member, Chief Technology Officer, Indian Administrative Fellow, Department Rural Development & Panchayat Raj, Government of Karnataka	Online 11.03.24



GAT/MBA/2023-24/BOS/MoM/19.03.2024

1


 Head of the Department
 Dept. of Management Studies (MBA)
 Global Academy of Technology
 Ralarajeshwari Nagar, Bengaluru - 560 099


 PRINCIPAL
 Global Academy of Technology
 Ideal Homes Township,

8	Dr. Magesh R	Member, Professor & HOD, Department of Management Studies, Anna University, Chennai, Tamilnadu	Online 11.03.24
9	Dr. Pratap Chandra Mandal	Member, Assistant Professor, Indian Institute of Management, Shillong, Meghalaya	Online 18.03.24
10	Dr. Shashi Jain	Member, Associate Professor, Department of Management Studies, Indian Institute of Science, Bengaluru, Karnataka	Online 18.03.24
11	Mr. Sridip Sarkar	Member, Senior Product Manager, Publicis Sapient, United States of America (USA)	Online 18.03.24
12	Dr. Shreelatha H R	Member, Associate Professor, Department of Management Studies, GAT	Present
13	Dr. Sriyank Levi	Member, Associate Professor, Department of Management Studies, GAT	Present
14	Dr. Anitha G H	Member, Associate Professor, Department of Management Studies, GAT	Present
15	Dr. Roopa Karnam	Member, Associate Professor, Department of Management Studies, GAT	Present
16	Prof. Dharmendra	Member, Associate Professor, Department of Management Studies, GAT	Present
17	Prof. Anand Guled	Member, Asst. Professor, Department of Management Studies, GAT	Present
18	Prof. Sindhu K K	Member, Asst. Professor, Department of Management Studies, GAT	Present
19	Prof. Sandhya Y Umesh	Member, Asst. Professor, Department of Management Studies, GAT	Present



20	Prof. Sarah Merlyn	Member, Asst. Professor, Department of Management Studies, GAT	Present
21	Prof. MD Yusuf	Member, Asst. Professor, Department of Management Studies, GAT	Present

AGENDA NOTES

1. Presentation and discussion of proposed scheme of teaching and evaluation as envisaged in National Education Policy 2020 pertaining to first year MBA program effective from the academic year 2023-24.
2. Presentation and discussion of proposed syllabus pertaining to first year MBA program effective from the academic year 2023-24.
3. Presentation and discussion of augmented certificate programs pertaining to Batch 2022-24.
4. Presentation and discussion on evaluation pattern of Internship and ratification of remuneration.
5. Presentation and discussion on evaluation pattern of Summer Project and ratification of remuneration.

MINUTES OF MEETING

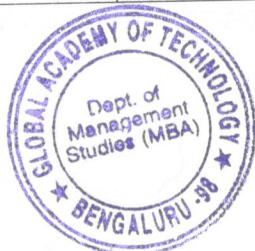
1. Dr. Venkatesh Kumar welcomed the esteemed members (first round) of the Board of Studies Dr. Tanuja Agarwala, Dr. Ramesh A, Dr. Bipin Kumar Dixit, Mr. Pravin Hungund, Dr. Magesh R and confirmed the quorum to initiate the proceedings with approval of esteemed members of Board of Studies. He has brought to the notice of Board of Studies that Dr. Pratap Chandra Mandal, IIM Shillong, Dr. Shashi Jain, IISc Bengaluru and Mr. Sridip Sarkar, Publicis Sapient shall tentatively attend the meeting on March 18, 2024. Apparently, the second round of Board of Studies meeting held on March 18, 2024 (Monday) between 05:30 PM and 06:45 PM with the welcome note. He presented the following contents for the kind perusal of Board of Studies.



GAT/MBA/2023-24/BOS/MoM/19.03.2024

- a. Preamble about the Institution and Department of Management Studies comprising recognition, affiliation, accreditation and status of academic autonomous.
- b. He acknowledged and expressed profound gratitude to all the Industry and Academic mentors Mr. Venkat Shyam, CEO, Signet Enterprises (P) Ltd.; Mr. G. Kodandaram, IRS, Asst. Director (Rtd.); Dr. G Sridhar, Professor, IIM Kozhikode; Mr. GV Ravi, Advocate; Mr. Rohit Kumar Cherukuri, Strategy Advisory Consultant, Digital Transformation, IBM; Dr. J Reeves Wesley, Professor, VIT Business School; Mr. Harsha Lakshman, Director, Ghetto Box Productions who have significantly contributed to the holistic development of first year MBA curriculum of Batch 2022-24.
- c. He exhaustively explained the processes adopted by the members of the Faculty especially 'benchmarking' exercise which facilitated the Department to gain deep insights about the robust curriculum followed by Institutes of Eminence namely IIMs, IITs, IISc, Faculty of Management Studies (FMS), University of Delhi, SP Jain Institute of Management and Research, Xavier School of Management (XLRI-Jamshedpur) and Management Development Institute, Gurugram.
- d. He submitted to the Board that the current deliberations are only for I Year MBA program (Scheme of teaching & evaluation and Syllabus of Semester 1 and Semester 2) as per the guidelines from affiliating University i.e. Visvesvaraya Technological University. However, he presented the detailed overall program architecture comprising 4 semesters viz. (i) Professional core courses (ii) Professional elective courses (iii) Internship (iv) Summer Project (v) Skill development courses and (vi) Laboratory courses. Following are the details.

S. No.	Classification of Courses	Semester 1		Semester 2		Semester 3		Semester 4	
		No. of Courses	Credits	No. of Courses	Credits	No. of Courses	Credits	No. of Courses	Credits
1	Professional Core Courses	7	21	7	21	1	3	--	--
2	Professional Elective Courses	--	--	--	--	6	18	6	18



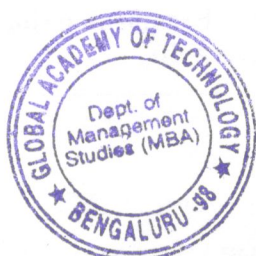
3	Professional Soft Core Courses	1	2	1	2	--	--	--	--
4	Laboratory Courses	1	1	1	1	--	--	1	1
5	Skill Development Courses	1	1	1	1	1	1	--	--
6	Audit Courses (MNCC)	--	--	--	--	1	0	2	0
7	Internship	--	--	--	--	1	3	--	--
8	Summer Project	--	--	--	--	--	--	1	6

e. He presented the statutes of affiliating university with respect to proposed course credits, structure of continuous internal evaluation (CIE), semester end examination (SEE) and listed the proposed value added courses, which are as follows.

1. Cambridge Assessment – Lingua Skills (Business English)
2. NCFM: Financial Markets – A Beginner's Module
3. NCFM: Investment Analysis and Portfolio Management (Intermediate)
4. Project Management (NPTEL)
5. Certificate Course on Digital Marketing with Google Analytics certification
6. Certification Course on Block Chain Technology
7. Entrepreneurship Bootcamp – Ministry of Micro, Small and Medium Scale Enterprises

f. He presented the detailed evaluation and remuneration pattern pertaining to Internship and the contents of the presentation are as follows:

INTERNSHIP (XXMBAIN31) - XX represents Year			
S. No.	Existing Criteria	Proposed Criteria for Batch 2023-25	Status of BOS Approval
1	No. of Credits = 3	No. of Credits = 3	Approved



2	CIE Marks = 50	CIE Marks = 50	Approved
3	SEE Viva Voce Examination (Internal + External) Marks = 50	SEE Viva Voce Examination (Internal + External) Marks = 50	Approved
GAT - Autonomous Examination Fees Remuneration with effect from AY 2022-23			
4	Remuneration for Internal Guide = Nil	Remuneration for Internal Guide = Rs. 750/Student	Not Recommended
5	Remuneration for SEE Viva Voce Examination = Rs. 475/ Batch of 10 Students/Examiner	Refer: VTU/BGM/FC-85/CR-2/2021-22/788 dated 29 th November 2022 https://vtu.ac.in/pdf/finance/fcp85.pdf Remuneration for SEE Viva Voce Examination = Rs. 260/Student/Examiner	Recommended (Fresh inclusion)

- g. He presented the detailed evaluation and remuneration pattern pertaining to Summer Project and the contents of the presentation are as follows:

SUMMER PROJECT (XXMBASP41) - XX represents Year Applicable for Batches 2022-24 and 2023-25			
S. No.	Existing Criteria	Proposed Criteria for Batches 2022-24 and 2023-25	Status of BOS Approval
1	No. of Credits = 6	No. of Credits = 6	Approved
2	CIE Marks awarded by Internal Guide = 50	CIE Marks awarded by Internal Guide = 50	Approved
3	SEE Report valuation by External Examiner (Single Valuation only) = 50 Marks	SEE Report valuation by One External Examiner (First Examiner) and Second valuation by Internal Examiner (Second Examiner); Marks are to be averaged = 50 Marks. Refer VTU/BGM/ACA/BOS/2023/7582 dated 29 th March 2023. (https://vtu.ac.in/wp-content/uploads/2023/03/Regulations-Governing-the-award-of-MBA-2022-schem.pdf)	Approved
4	SEE Viva Voce Examination (Internal + External) Marks = 50	SEE Viva Voce Examination (Internal + External) Marks = 50	Approved

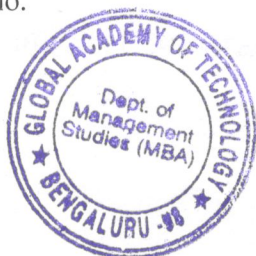


GAT - Autonomous Examination Fees Remuneration with effect from AY 2022-23			
5	SEE Report valuation Remuneration for External examiner = Rs. 600/Report	SEE Report valuation Remuneration for External examiner (First Examiner) = Rs. 750/Report and SEE Report valuation Remuneration for Internal examiner (Second Examiner) = Rs. 1000/Report	Recommended (25% → FF and SE i.e. Rs. 750)
6	Remuneration for SEE Viva Voce Examination = Rs. 550/Student/Examiner	Remuneration for SEE Viva Voce Examination = Rs. 600/Student/Examiner	Recommended (9.09%)

- h. After completion of presentation, he requested the esteemed members of Board to initiate the review process and suggestions and requested Dr. Tanuja Agarwala to share her views on the proposed scheme of teaching and examination, syllabus, value added courses and evaluation and remuneration pattern of Internship and Summer Project.
2. Dr. Tanuja Agarwala initiated the review process by appreciating the process adopted by the Department in framing the syllabus in terms of benchmarking exercise and rendered the following suggestions:
- Accentuated to redesign/rationalise the CIE and SEE marks sharing framework (Instead of 50:50 ratio, perhaps more weightage can be given to SEE and reduce the weightage of CIE; Equivalent weightage of CIE may pave way for reduction of interest in the End-term examination. This would also help the faculty to engage the learners constructively through distinct pedagogical methods)
 - Written Analysis and Communication (WAC) may be offered not less than 2 contact hours/week and it was ratified that this course will be delivered 3 contact hours/week (2 direct contact hours and 1 hour practical).
 - Expressed apprehension about imparting Value added courses along with regular curriculum on account of availability time and suggested to optimise the course level deliverables within the available time.



- d. Opined on remuneration to be awarded to Internal guides as part of Internship (XXMBAIN31) and Summer Project (XXMBASP41); since guiding the Students for both Internship and Summer Project, validating assignments, giving time out of class hours, mentoring the students are part of the academic responsibility of a Faculty, thus, there shall not be any exclusive remuneration to be paid to Faculty. However, an Internal Faculty is assigned on any endeavours associated with SEE as an Examiner viz. Examiner to evaluate reports and Examiner to SEE Viva-voce examination, the said faculty shall be made eligible to receive remuneration as per the norms.
 - e. Recommended and approved the Scheme of teaching and evaluation, Syllabus and value added courses for the Batch 2023-25.
3. Dr. Venkatesh Kumar profusely thanked Dr. Tanuja Agarwala and requested Dr. Ramesh share his insights and suggestions on the course structure, syllabus and other contents.
- a. Shared the current developments and high level discussion at IIT, Roorkee, pondering to reduce total no. of credits from 99 credits to 78 credits and solicited, is there a possibility to reduce the total no. of credits. It was ratified that as per the University's governing regulations, the total no. of credits i.e. 100 credits remains unchanged.
 - b. Suggested that instead of uniform 3 credit courses, it can be rationalised to 2 credit to offer wide assortment of courses especially in electives. This would help the learner to gain better insights into variety of sub-domains of an elective.
 - c. Suggested to introduce emerging technology courses viz. Artificial Intelligence, Machine Learning and Internet of Things as deemed appropriate in the course architecture. These emerging technologies can be offered in a bundle as components of 'one course' and name the course appropriately as deem fit. This will greatly add value during placements.
 - d. Opined on flexible assessment pattern emphasising higher proportion of range can be given to internal faculty who deliver the course. Suggested that it would allow the faculty to assess the students more holistically rather than equalising to 50:50 ratio.

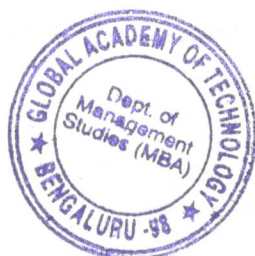


- Deepening the course deliverables and vividness, highly recommended to have flexible assessment pattern with a pre-determined range and reduce the burden of students focusing more on end-term assessment.
- e. Recommended to reduce the no. of credits associated with elective courses. Shared the no. of credits for elective courses at IIT, Roorkee which are to the extent of 10.5 credits/term.
 - f. As envisaged by NEP 2020, suggested and encouraged to offer/take robust “open elective” courses to/from under graduate and post graduate engineering programs in order to acclimatise in multidisciplinary/inter-disciplinary architecture.
 - g. Since organisations are heavily investing in Sustainable Development Goals (SDGs) and Environmental, Societal and Governance (ESG) related initiatives, introduction of courses focusing predominantly on SDGs will be an advantage.
 - h. Seconded the opinion shared by Dr. Tanuja Agarwala on ratifying the remuneration for Internship and Summer Projects’ Internal guides, iterating the remuneration need not to be paid to Internal guides for mentoring the students irrespective of Internship or Summer Project since it’s the academic onus of a Faculty. Moreover, instead of remunerating the examiners per student basis, explore the possibility of remunerating the examiners per session basis irrespective of no. of students in the session. Although the no. of students shall vary between one session and another session, the remuneration shall stand fixed, hence, due validation can be done.
 - i. Recommended and approved the Scheme of Teaching and Evaluation, Syllabus and value added courses for the Batch 2023-25.
4. Dr. Venkatesh Kumar extended gratitude to Dr. Ramesh and requested Mr. Pravin Hungund to share his views on the proposed scheme of teaching and evaluation.
- a. Emphasised that the modern business practices are heavily rely on Technology, thus, proposed to include a elementary level course to give more exposure to learners on Technology and Innovation. It was ratified that a course titled “Digital Transformation and Innovation” with 3 credits has already been introduced during the first semester.

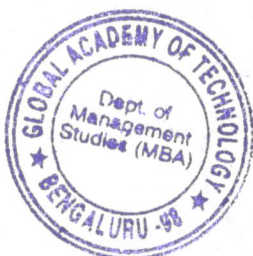


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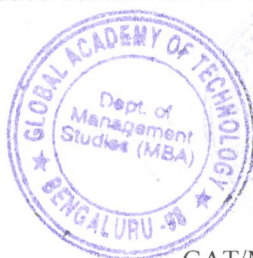
- b. Highlighted the focus areas of this course comprising Digital transformation, Emerging technologies, Innovation Management and Ethical considerations.
 - c. Suggested that an exclusive course on Artificial Intelligence may be introduced consisting of portfolio of Technologies which will render better value addition from employment stand point.
 - d. Delineated the gaining importance of ‘Digital Public Infrastructure (DPI)’ and the germane Governmental initiatives to augment the Digital push at the grassroots, inclusion of such contents in the curriculum development paves way for holistic learning and learners will possess the abreast developments.
 - e. Supported the proposal for remunerating the internal guides as part of Internship and Summer Project as the teachers profoundly nurture them to bring quality research outcomes.
 - f. Recommended and approved the Scheme of Teaching and Evaluation, Syllabus and value added courses for the Batch 2023-25.
5. Dr. Venkatesh Kumar thanked Mr. Pravin Hungund for all the inputs and suggestions and requested Dr. Bipin Kumar Dixit to share his views.
- a. Appreciated the benchmarking exercise carried by the faculty to design the curriculum.
 - b. Suggested to introduce a course in “Cost and Management Accounting” as deem fit in any semester.
 - c. Accentuated that pragmatic simulative as well as real-time industry use cases shall be included as practical component to augment the course level deliverables of “Financial Reporting and Analysis” and “Corporate Finance” courses.
 - d. Suggested that in some courses instead of individual CIE assessment, group level assessment as it deem fit may be brought in order to bolster team dynamics and cohesive thinking. If regulations allow, this may be explored.
 - e. Observed the credit rationalisation among courses and suggested that instead of uniform assessment having 50 marks for internal and 50 marks for external, the evaluation structures/pattern are to be redesigned depending on the intensity and the no. of credits.



- f. Suggested that since more courses are to be taken up per semester by the students optimise the calendar accordingly so that there shall not be any compromise at the course level deliverables.
 - g. Regarding the assessment and remuneration for Internship and Summer project, seconded the opinion of Dr. Tanuja Agarwala and Dr. Ramesh.
 - h. Recommended and approved the Scheme of Teaching and Evaluation, Syllabus and value added courses for the Batch 2023-25.
6. Dr. Venkatesh Kumar thanked Dr. Bipin Kumar Dixit and requested Dr. Magesh to share his views.
- a. Recommended and approved the Scheme of Teaching and Evaluation, Syllabus and value added courses for the Batch 2023-25.
7. Dr. Venkatesh Kumar thanked Dr. Magesh and requested Dr. Pratap Chandra Mandal to share his views.
- a. Suggested to transfer the “Startups Management” course to second semester.
 - b. Suggested to keep the “Strategic Management” course as a core course and offer the same as it may deem appropriate in any semester after the first semester.
 - c. Recommended to introduce “Operations Research” course and it was ratified that the “Operation Research” course has been rechristened as “Decision Modelling and Optimisation Techniques” and it will offered during the second semester.
 - d. Since Marketing Management as a single course *per se* is vast in nature, recommended that it can be bifurcated into a) “Introduction to Marketing Management” which can be offered in first semester and b) “Marketing Strategy” which can be offered in second semester to augment the course level deliverables.
 - e. Explore/encourage offering the MOOCs through various platforms and arrange credit transfer so that these courses will form the grade card which will be a significant value add.
 - f. Recommended and approved the Scheme of Teaching and Evaluation, Syllabus and value added courses for the Batch 2023-25.

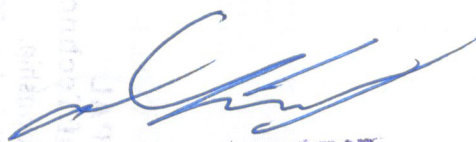


8. Dr. Venkatesh Kumar thanked Dr. Pratap Chandra Mandal and requested Dr. Shashi Jain to share his views.
- a. Appreciated the team for carefully crafting the holistic framework comprising foundation courses, operational courses, elective courses and value add courses.
 - b. Elucidated the significance of extensive coverage of Predictive Analytics in Statistics with real-time data and its application.
 - c. Suggested to include machine learning for Business Analytics as deemed appropriate in Decision Modelling course.
 - d. Recommended to introduce a course on Sustainable Development Goals and seconded the opinion of Dr. Ramesh on the same.
 - e. Emphasised to encourage the students to indulge in carrying out group projects across the courses if need be.
 - f. Recommended and approved the Scheme of Teaching and Evaluation, Syllabus and value added courses for the Batch 2023-25.
9. Dr. Venkatesh Kumar thanked Dr. Shashi Jain and requested Mr. Sridip Sarkar to share his views.
- a. Appreciated the comprehensive presentation on the program and courses classification framework.
 - b. Accentuated the importance of introducing the courses like Design Thinking, System Thinking, Product Management, Financial Modelling, Business Analytics and Conceptual understanding to Generative Artificial Intelligence.
 - c. Since Generative AI is widely applied in various businesses, this can be included in the “Digital Transformation” course.
 - d. Suggested to initiate dialogue with “Chartered Financial Analyst Institute” and commence imparting few foundation courses as value added courses since CFA certification has global acceptance and render immense competitive advantage to students.
 - e. Recommended and approved the Scheme of Teaching and Evaluation, Syllabus and value added courses for the Batch 2023-25.





- 10. Dr. Venkatesh Kumar profusely thanked all the esteemed Board members for their valuable inputs and suggestions.
- 11. 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 July' 2024.


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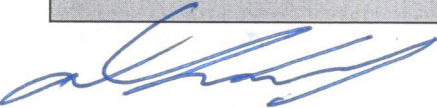




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GLOBAL ACADEMY OF TECHNOLOGY (Autonomous Institution under VTU)
Semester System: Scheme of Teaching and Examination 2023-24 (Effective from the academic year 2023 - 24)
I SEMESTER MBA

Sl. 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	23MBAC11	Organisational Dynamics and Management	MBA	MBA	3	0	1	50	50	100	3
2	23MBAC12	Economics for Business Decisions	MBA	MBA	3	0	1	50	50	100	3
3	23MBAC13	Financial Reporting and Analysis	MBA	MBA	3	0	1	50	50	100	3
4	23MBAC14	Statistical Methods for Corporate Excellence	MBA	MBA	3	0	1	50	50	100	3
5	23MBAC15	Essentials of Marketing	MBA	MBA	3	0	1	50	50	100	3
6	23MBAC16	Legal Aspects of Business	MBA	MBA	3	0	1	50	50	100	3
7	23MBAC17	Digital Transformation and Innovation	MBA	MBA	3	0	1	50	50	100	3
8	23MBASC11	Written Analysis and Communication - I	MBA	MBA	2	0	1	50	50	100	2
9	23MBASC12	Advanced Data Modelling & Analysis - I	MBA	MBA	--	--	2	50	50	100	1
10	23MBASD11	Managing Self and Wellness	MBA	MBA	--	--	2	50	50	100	1
TOTAL					23	00	12	500	500	1000	25

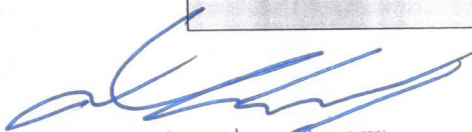

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II SEMESTER MBA

Sl. 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	23MBAC21	Strategic Management in Emerging Markets	MBA	MBA	3	0	1	50	50	100	3
2	23MBAC22	Startups Management	MBA	MBA	3	0	1	50	50	100	3
3	23MBAC23	Operations Management	MBA	MBA	3	0	1	50	50	100	3
4	23MBAC24	Corporate Finance	MBA	MBA	3	0	1	50	50	100	3
5	23MBAC25	Decision Modelling and Optimisation Techniques	MBA	MBA	3	0	1	50	50	100	3
6	23MBAC26	Managing Intellectual Capital	MBA	MBA	3	0	1	50	50	100	3
7	23MBAC27	Business Research Methods	MBA	MBA	3	0	1	50	50	100	3
8	23MBASC21	Written Analysis and Communication - II	MBA	MBA	2	0	1	50	50	100	2
9	23MBASC22	Advanced Data Modelling & Analysis - II	MBA	MBA	0	0	2	50	50	100	1
10	23MBASD21	Human Values and Responsible Citizenship	MBA	MBA	1	0	1	50	50	100	1
TOTAL					24	00	11	500	500	1000	25


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Promote research and innovation through collaboration with industries.

Inculcate ethical values and environmental consciousness through holistic education programs.

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